BAWERS

MEDICAL EQUIPMENT

Portable Color Doppler Ultrasonic System

Slimmer I Clearer I Stronger



Ergonomic Design

Match the ingenious ergonomic design with the compact size, BWM30 has remarkable adaptability which can fit variable usage scenario.



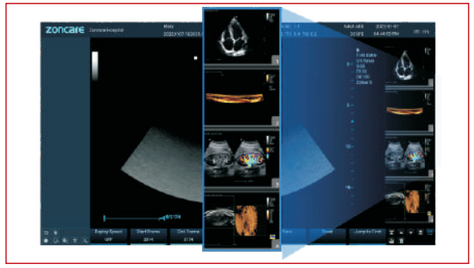


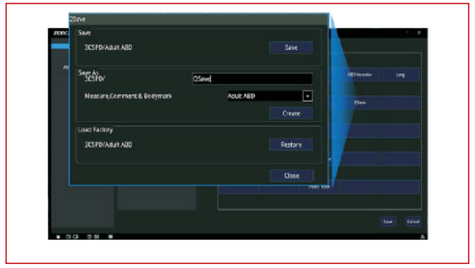
Transducers

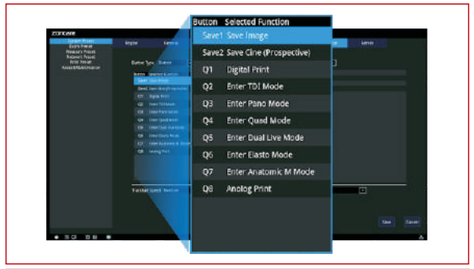


Efficient and Fast Workflow

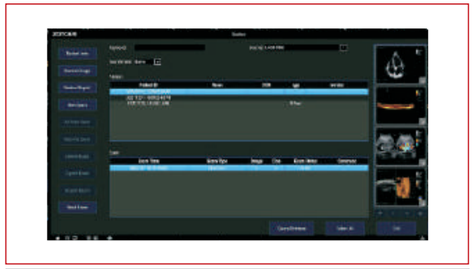
- Multiple user-defined programming buttons
- One-key Automatic Optimization Technology
- One-key operation flow, quick switching and easy to use
- Visualize user-defined presets function (QSave)
- Metadata and image postprocessing
- DICOM 3.0
- USB 3.0 port makes transmission more convenient
- Thumbnail clipboard - easy to review the images and videos


Clipboard


Qsave



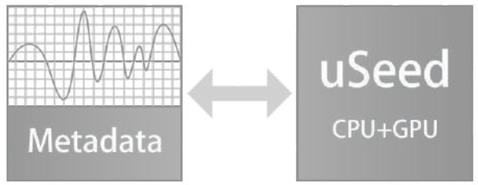
Station


User-defind Buttons



uSeed Platform

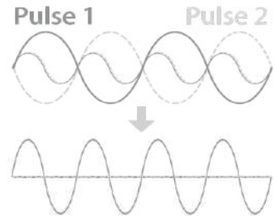
BWM30 facilitates accurate diagnosis based on uSeed metadata beamforming imaging technology platform. This brand-new platform is developed by CPU + GPU heterogeneous computing technology. The images in uSeed platform are saved as metadata for postprocessing.



Technologies

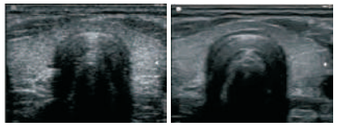
Pulse Inverse Harmonic Imaging PIHI

PIHI reduces the distortion generated by the fundamental wave, and greatly improve the signal-to-noise ratio.



Speckle Reduction Imaging

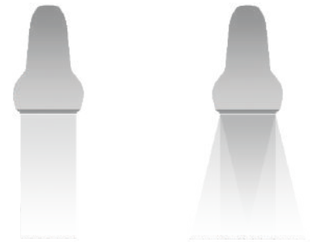
SRI technology significantly reduces the unwanted speckle, provides enhanced tissue boundary and tissue echo for confident clinical diagnosis.



SRI OFF SRI ON

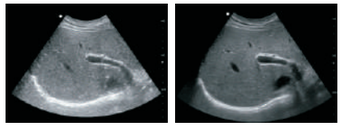
Spatial Compound Imaging

SCI provides better contrast resolution, reduces the speckle noise and smoothes the imaging of homogeneous tissue.



Frequency Composite Imaging

Combine the high penetration of the fundamental frequency and the high resolution of the harmonic frequency to improve the detail resolution and contrast resolution of the near field and the far field to provide the best image quality.



FCI OFF FCI ON

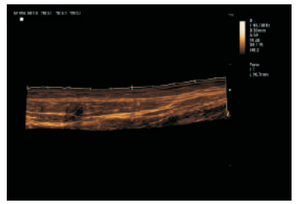


Comprehensive Clinical Applications

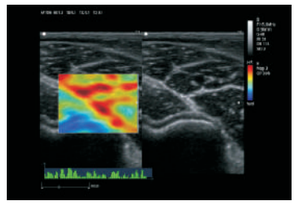
BWM30 provides remarkable performance in Abdomen, Gynecology (including endocavity), Obstetric, Cardiology, Small parts (Breast, Testes, Thyroid, etc.), Urology, Musculoskeletal and Peripheral vascular. A variety of imaging modes brings a comprehensive clinical application.

- B Steer, 3D/4D, ZPage, Zlive, PW, CW, AMM, CMM, Panoramic Imaging, Elastic imaging mode, EFOV, TDI
- Auto IMT, Auto NT, Auto Trace, TSI, THI, SRI, SCI, FCI, Biopsy function

Radiology

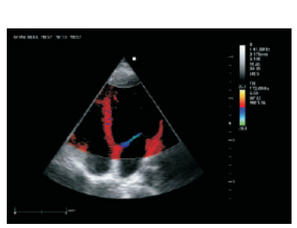


Panoramic Imaging
Panoramic Imaging could help to get extended and complete view of the anatomical structure.

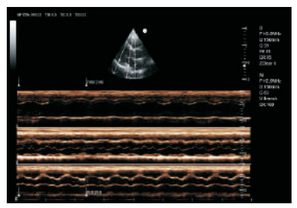


Elastic Imaging
Elastography plays an important role in clinical diagnosis, especially in lesions assessing. Elastography imaging could detect the hardness of nodule, therefore it may help to differentiate malignant from benign lesions.

Cardiology

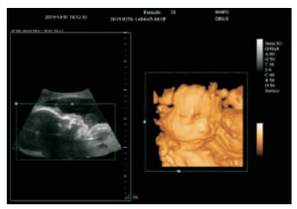


TDI
Tissue Doppler Imaging (TDI) could monitor local myocardial movement, and evaluate the movement quantitatively.



AMM
AMM allows placing up to 3 sample lines at any angles, the thickness and thickening of each ventricular wall could be observed accurately, which is also helpful for the accurate meas urement of ejection fraction.

Obstetrics and Gynecology



3D/4D
Zoncare advanced 3D/4D mode delivers amazing lifelike 3D/4D images. With Zlive, M30 has the ability to manipulate light and shadow anywhere in the images.

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

Datasheet



1 System Overview

1.1 Clinical Applications

- Abdomen
- Obstetrics
- Gynecology
- Urology
- Cardiology
- Pediatric
- Small Parts
- Blood Vessel
- Superficial
- Orthopedic
- MSK
- Nerve
- Custom

1.2 Transducer Types

- Convex Transducer
- Linear array Transducer
- Trans-vaginal Transducer
- Micro-convex Transducer
- Phased array Transducer
- 4D volume Transducer

1.3 Imaging modes

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- Anatomic M mode
- Panoramic
- Color panoramic
- Trapezoidal (Linear transducer)
- Extended imaging (Efov)
- CW -Mode
- TDI (TVI, TVD, TVM, TEI)
- 3D/4D Mode

1.4 Standard features

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- CW Mode
- Anatomic M mode
- Panoramic
- Color panoramic
- Trapezoidal (Linear transducer)
- Extended imaging (Efov)
- Tissue Specific Imaging (TSI)
- Tissue Harmonic Imaging (THI)
- Speckle Reduction Imaging (SRI)
- Spatial Composite Imaging (SCI)
- Frequency Composite Imaging (FCI)
- B/D Chromatic Imaging
- Pan Zoom
- Local Zoom
- Auto Optimization

- Image Rotation
- Auto Calculate
- Auto IMT
- Archive management
- Raw data
- Multiple pregnancies
- HR Flow
- Biopsy function
- Velocity tag
- HPRF
- Imaging postprocessing
- Imaging preprocessing
- 15.6-inch monitor
- Elastic imaging
- TDI（TVI,TEI,TVM, TVD）
- Static 3D
- 4D Module
- Laser/thermal printer
- Foot Switch
- Puncture
- DICOM 3.0

1.5 Storage Format

- Image: RAW, JPG/AVI, DCM, BMP/AVI, TIFF/AVI
- Report: PDF

2 Physical Specification

2.1 Dimension and weight

- Width: approx. 380mm
- Height: approx. 361mm
- Thickness: approx.131mm
- Net Weight: approx. 6.3kg (without battery)

2.2 Monitor

- 15.6-inch high resolution color display screen
- Resolution: 1920*1080
- Tilt angle range 0-70° (U/D)

2.4 Transducer ports and holders

- 3 activated Transducer ports
- Removable Transducer holders

2.5 Electrical power

- AC adapter Input
  - Voltage: 100-240V~
  - Frequency: 50/60Hz
  - Output Voltage: 19V±1
  - Output electric current: 5.8A
- Lithium Battery
  - Battery Capacity: 10000mA
  - Output Voltage: 14.4V

2.6 Operation Environment

- Ambient temperature: 5℃~+40℃
- Relative humidity: 25%~85%
- Atmospheric pressure: 70kpa ~ 106kpa

2.7 Storage &Transport Environment

- Ambient temperature: -20℃~+55℃
- Relative humidity: 10%~95%
- Atmospheric pressure: 50kpa-106kpa

2.8. Main body

- 500G HDD
- Operating system -- Linux

3 User Interface

3.1 Monitor information

- Common info:
  - Logo
  - Hospital name
  - Display Parameters
  - System date &Time
  - Clinical application

- Transducer type
- Exam mode
- Patient Name, Age, Gender
- Transducer mark
- Focus position
- Parallel scale & Vertical scale
- Freeze mark
- TGC Curve
- Acoustic power
- Volume histogram
- Gray bar/ Color bar
- Recycle bin icon

3.3 Control panel

- Power On/Off
- Imaging Mode buttons
  - B, C, PW, M, Quad,3D/4D, PDI, CW, TDI, ECG, Biopsy
- Parameter shortcut keys
  - Depth
  - Focus position
  - Angle/steer
  - Auto
  - Zoom
  - Gain
- User-defined programming key
  - Q1, Q2, Q3, Q4, Save 1, Save 2, Print
- Freeze button
- Function
  - Measure
  - Caliper
  - Dual
  - Quad
  - Update
  - Text
  - Body Mark
  - Arrow
  - Cursor
  - Clean
  - Print
  - Transducer
  - Patient
  - Report
  - Review
  - End Exam
  - Help
  - Station
  - Setup
  - QSave
- 8-segment TGC control
- Trackball
- Keyboard

3.4 System boot-up

- Boot-up in about 90s
- Shut down in about 5s
- Standby time: 1, 10,30, 60 min
- Screen saver: 1, 10,30, 60 min

3.5 Comments & Arrow

- Arrow position adjustable
- Arrow size adjustable
- Arrow direction adjustable
- Comments position adjustable
- Comments fontsize adjustable
- User-defined adding and deleting

3.6 Body Marks

- More than 200 body-marks
- User-defined adding and deleting

- Drag to change the position

4 Imaging Parameters

4.1 B mode

- Display Format: B (Single), 2B (Dual), 4B (Quad)
- U/D Reverse: On, Off
- L/R Reverse: On, Off
- Dual Live
- Depth: Depend on different transducer
- Frequency: Depend on different transducers
- THI:
  - →Tissue Harmonic Imaging
  - →Available on all transducers
- B steer:
  - →For linear transducer
  - →Left 4 steps adjustable
  - →Right 4 steps adjustable
- Gain: 0~100
- Pan Zoom: Z0.8, Z0.9,Z1.0, Z1.1, Z1.2, Z1.4,Z1.6, Z1.8, Z2.0，Z3.0，Z4.0，Z5.0, Z6.0, Z7.0, Z 8.0, Z9.0, Z10.0
- Horizontal Ruler: Hide/Display
- Center Line: Convex transducer
- Image Quality: Pen, Gen, Res, HPen, HPen-Gen, HGen, HRes
- Dyn Ra (Dynamic range): 30-180, 5/step
- ZClear: 0~6, 1/step
- Persistence: 0~6, 1/step
- Gray Map: 1~10, 1/step
- Chrome:0~8, 1/step
- A.Power: 1~20, 1/step
- Rotation: 0°, 90°, 180°, 270°
- Focus Number: Up to 8
- FCI (Frequency Composite Imaging):
  - →0 or 1
- TSI: General, Muscle, Fat, Fluid
- Field of View: 1~8, 1/step
- SCI (Spatial Composite Imaging）：0~7, 1/step
- Line Density: L, H
- EFOV:
  - →0, 1, 2 Adjustable
  - →Extended FOV available on Convex, Linear, Trans-vaginal, 4D volume

- M mode
  - Display Format
    - →V2:3, V3:2, V3:1, H2:3, Full
  - Dyn Ra.: 30~180, 5/step
  - Gray Map: 1~10, 1/step
  - Speed: 1~6, 6 steps adjustable
  - Chrome: 0~8, 1/step
  - Save (Freeze)
  - Reset (Freeze)
  - Jump to First (Freeze)
  - Jump to Last (Freeze)
  - Replay Speed (Freeze)
  - Start Time (Freeze)
  - End Time (Freeze)
- C mode
  - ROI Position: trackball
  - ROI Size: trackball & set key
  - ROI Steer: Linear transducer
    - →Left 4 steps adjustable
    - →Right 4 steps adjustable
  - Dual Live: B/C, B/PDI, B/DPDI

- Quad: Color 4B
- Image Quality: Pen, Gen, Res
- Wall Filter: 0~7, 1/step
- Sensitivity: 1~4, 1/step
- Persistence: 0~5, 1/step
- Smooth: 0~5, 1/step
- Line Density: L, H
- Flow State: L M H
- HR Flow
- Priority: 0~100, 1/step
- Invert
- Velocity Tag: On, Off
- B/C Align
- Color hide: On, Off
- Color Map: V0~VV9, 20 steps
- PRF: 0.2~7.9KHz

● PW mode

- Image Quality: Pen, Gen, Res
- Wall Filter: 0~7, 1/step
- Invert: On, Off
- Quick Angle: 0°, +60°, -60°
- Speed:1~6, 1/step
- Auto Calc Cycle: 1, 2, 3
- Auto Invert: On, Off
- Trace Area: Above, Below, All
- SV: 0.5~40mm, 0.5mm/step
- HPRF: ON/OFF
- Volume: 0-100, 1/step
- Dyn Ra.: 24~72, 2/step
- Multi sync: ON/OFF
- Auto Calc Para

→AT, D/S, DT, ED, Flow (TAMAX), VTI, Flow (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

→User-defined selection

- Chrome: 0~8, 1/step
- Gray Map: 1~10, 1/step
- T/F Resolution: 1~5, 1/step
- Display Format:

→V2:3, V3:2, V3:1, H2:3, Full

- PRF: 0.5KHz~12.0KHz
- Auto calc cycle: 1, 2, 3 Adjustable
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)
- Select Start (Freeze)
- Select End (Freeze)

● CW Mode

- Image Quality: Gen
- Dyn Ra.: 24-72, 2/step
- PRF: 0.5KHz~120.0KHz
- Speed: 1-6
- Angle: -80°~80°, 1° /step
- Gray Map: 1-10
- Wall Filter: 0-7, 1/step
- Chroma: 0-8
- T/F Resolution: 1-5, 1/step
- Invert: On/Off
- Volume: 0-100, 1/step
- Display Format: Full, V2:3, V3:2, V3:1, H2:3
- baseline:17 step
- Auto Spectrum
- Auto Calc: On/Off
- Auto Calc Para:

→Automatic spectrum calculation results

AT, D/S, DT, ED, Flow (MAX), VTI, Flow (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

→User-defined selection

- Static 3D&4D
  - Prepare parameters
    - →Autoface: On, Off
    - →Trim Used
    - →Angle: 10°~70°， 5°/step
    - →Quality: Lowest, Low, Medium High, Highest
    - →Angle: 10°~70°， 5°/step
    - →Render mode: Surface，Depth，Max，Min，Xray，ZLive, Silhouette
  - Update parameters
    - →Display Format: Single, Dual, Quad, LeftQuad
    - →Render mode: Surface，Depth，Max，Min，Xray，ZLive, Silhouette
    - →Orientation: 0°, 90°, 180°, 270°
    - →RotateX: Adjustable
    - →RotateY: Adjustable
    - →RotateZ: Adjustable
    - →Threshold: 1-100, 1/step
    - →Opacity: 0~100, 5/step
    - →Contrast:0~100, 1/step
    - →Brightness: 0~100, 1/step
    - →Smooth: 0~12, 1/step
    - →RefSection: A, B, C
    - →VR Status: VR, MPR, MPR
    - →Reset Ori
    - →Reset All
    - →Sync
    - →Chrome:0~8, 1/step
    - →Image Enh. : 0~10
    - →Movelight
    - →Reset Trim
    - →Invert
    - →View Direction: UP/Down, Down/UP, Left/Right, Right/Left, Front/Back, Back/Front
    - →Reverse View
    - →Gray Map
  - Image Edit parameters
    - →Edit Mode: Box in, Box Out, Contour In, Contour Out, Polygon In, Polygon Out
    - →Undo
    - →Undo All
    - →Trim Depth: 0-100
  - Zpage
    - →Display Format: 2×2, 3×3, 4×4, 5×5
    - →Distance: 0.1-20, 0.1/step
    - →RefSection: A, B, C
    - →RotateX: Adjustable
    - →RotateY: Adjustable
    - →RotateZ: Adjustable
    - →Slices Full
    - →Slice Pos: -7~8, 1/step
    - →Orentation: Horizontal, Verrical
  - Layout parameters
    - →Display Format: Single, Quad
    - →3D_Niche Directior: Front Back, Back Front
    - →RefSection: A/B/C/Niche
    - →Reset Ori

- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)
- Start Frame (Freeze)
- End Frame (Freeze)

● Elastic

- Opacity: 0~10, 1/step
- Invert
- Sync
- Persistence
- Smooth: 0~10, 1/step
- Map: 1~7, 1/step
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)

● Anatomic M

- Show A
- Show B
- Show C
- Speed :1~6, 1/step
- Gray Map: 1-10, 1/step
- Chrome: 0~8, 1/step
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)

5 Measurement

5.1 2D mode

.

● General

- Distance (2D)
- Trace
- Ellipse
- Angle
- Volume
- Ratio (D)
- Ratio (Trace)
- Ratio (Ellipse)
- Spline
- Cross
- Double Dist
- Trace Len
- Trace Len (Spline)
- Parallel
- B-Profile
- B-Hist (Ellipse)
- B-Hist (Trace)
- B-Hist (Spline)
- B-Hist (Rectangle)
- Depth
- Color Vel
- Volume (Ellipse)
- Volume (E+Dist)
- Ratio (Spline)
- Ratio (Cross)
- Strain Ratio
- IMT(Near)
- IMT(Far)
- Vol Flow

→Vas Area, TAMEAN, TAMAX

● Abdomen

- Liver
- Renal L

- Renal H
- Renal W
- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- CBD
- Portal V Diam
- CHD
- GB L
- GB H
- GB wall th
- Panc duct
- Panc head
- Panc body
- Panc tail
- Spleen
- Aorta Diam
- Aorta Bif
- Iliac Diam
- Bladder
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Ureter
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol

● Gynecology

- UT L
- UT H
- UT W
- Cervix L
- Cervix H
- Cervix W
- Endo
- Ovary L
- Ovary H
- Ovary W
- Follicle1 L
- Follicle1 H
- Follicle1 W
- Follicle2 L
- Follicle2 H
- Follicle2 W
- Follicle3 L
- Follicle3 H
- Follicle3 W
- Follicle4 L
- Follicle4 H
- Follicle4 W
- Follicle5 L
- Follicle5 H
- Follicle5 W
- Follicle6 L
- Follicle6 H
- Follicle6 W
- Follicle7 L
- Follicle7 H
- Follicle7 W
- Follicle8 L
- Follicle8 H
- Follicle8 W
- Follicle9 L

- Follicle9 H
- Follicle9 W
- Follicle10 L
- Follicle10 H
- Follicle10 W
- Follicle11 L
- Follicle11 H
- Follicle11 W
- Follicle12 L
- Follicle12 H
- Follicle12 W
- Follicle13 L
- Follicle13 H
- Follicle13W
- Follicle14 L
- Follicle14 H
- Follicle14 W
- Follicle15 L
- Follicle15 H
- Follicle15 W
- Follicle16 L
- Follicle16 H
- Follicle16 W
- Ovary Vol
- UT Vol
- Uterus Body
- UT-L/CX-L
- BND
- DWT
- DWT1
- DWT2
- DWT3
- Mean DWT
- Residual Urine: BL Height, BL Depth
- BSD (R)
- UTA (R)
- RVA(R)
- BPW-SP Dist.(R)
- Cx-SP Dist. (R)
- RA-SP Dist. (R)
- Shuttle (R)
- ARA (R)
- LH AP Diam (R)
- LH Lateral Diam (R)
- LH Area (R)
- LA Angle (R)
- LUG (R)
- BSD (Va)
- UTA (Va)
- RVA (Va)
- BPW-SP Dist. (Va)
- Cx-SP Dist. (Va)
- RA-SP Dist. (Va)
- Shuttle (Va)
- ARA (Va)
- LH AP Diam (Va)
- LH Lateral Diam (Va）
- LH Area (Va)
- LA Thickness (Va)
- LA Angle (Va)
- LA Thickness (Va)
- LA Angle (C)
- LUG (C)
- IAS Damage
- EAS Damage

● Cardiology

- Ao Diam (2D)
- Ao Arch Diam (2D)

Portable Color Doppler Ultrasonic Diagnostic System

- Ao Asc Diam (2D)
- Ao Desc Diam (2D)
- Ao Isthmus (2D)
- Ao st junct (2D)
- Ao Sinus Diam (2D)
- AVA
- ASD Diam
- ACS (2D)
- AV Diam
- Duct Art Diam
- HR (Cube 2D)
- HR (Gibson 2D)
- HR (Teich 2D)
- IVC Diam (Expir)
- IVC Diam (Insp)
- IVSd (2D)
- IVSs (2D)
- LA Area
- LA Diam (2D)
- LA Major
- LA Minor
- LCA Diam
- LPA Diam (2D)
- LV Area (d)
- LV Area (s)
- Diastole (Cube2D)
- Diastole (Gibson2D)
- Diastole (Teich2D)
- LV Major
- LV Minor
- Systole (Cube 2D)
- Systole (Gibson2D)
- Systole (Teich2D)
- LVIDd (2d)
- LVIDd (Cube 2D)
- LVIDd (Gibson2D)
- LVIDd (Teich2D)
- LVIDs (2d)
- LVIDs (Cube 2D)
- LVIDs (Gibson2D)
- LVIDs (Teich2D)
- LVOT Diam
- RVOT Diam
- LVPWd (2D)
- LVPWs (2D)
- MCS (2D)
- MPA Diam (2D)
- MVA
- MV Diam
- MV EPSS (2D)
- PDA Diam
- PEd (2D)
- PEs (2D)
- PFO Diam
- Pre Ductal
- Post Ductal
- PV Diam
- RA Area
- RA Major
- RA Minor
- RCA Diam
- RPA Diam (2D)
- RV Area (d)
- RV Area (s)
- RV Major
- RV Minor
- RVAWd (2D)
- RVAWs (2D)

Portable Color Doppler Ultrasonic Diagnostic System

- RVDd (2D)
- RVDs (2D)
- SVC Diam (Expir)
- SVC Diam (Insp)
- TV Diam
- TVA
- VSD Diam
- LVIDd (BP Ellipse)
- LVIDs (BP Ellipse)
- LVAd sax MV (BP Ellipse)
- LVAs sax MV (BP Ellipse)
- LVAd apical (BP Ellipse)
- LVAs apical (BP Ellipse)
- HR (BP Ellipse)
- LVAd sax MV (Bullet)
- LVAs sax MV (Bullet)
- LVLd apical (Bullet)
- LVLs apical (Bullet)
- HR (Bullet)
- LA Diam (LA Vol A-L)
- LAA (A2C)
- LAA (A4C)
- LA Vol (A2C)
- LA Vol (A4C)
- LVAd sax Epi (LV Mass A-L)
- LVAd sax Endo (LV Mass A-L)
- LVLd apical (LV Mass A-L)
- IVSd (LV Mass Cube-2D)
- LVIDd (LV Mass Cube-2D)
- LVPWd (LV Mass Cube-2D)
- LVAd sax Epi (LV Mass T-E)
- LVAd sax Endo (LV Mass T-E)
- a
- d
- RA Vol (A4C)
- LVLd apical (SP Ellipse)
- LVAd apical (SP Ellipse)
- LVLs apical (SP Ellipse)
- LVAs apical (SP Ellipse)
- HR (SP Ellipse)
- LVLd apical (Simp)
- LVLd apical (Simp)
- LVLs apical (Simp)
- LVAd sax MV (Simp)
- LVAs sax MV (Simp)
- LVAd sax PM (Simp)
- LVAs sax PM (Simp)
- HR (Mod Simp)
- EDV (Simp BP-A2C)
- ESV (Simp BP-A2C)
- EDV (Simp BP-A4C)
- ESV (Simp BP-A4C)
- HR (Simp BP)
- EDV (Simp SP-A2C)
- ESV (Simp SP-A2C)
- HR (Simp SP A2C)
- EDV (Simp SP-A4C)
- ESV (Simp SP-A4C)
- HR (Simp SP A4C)
- LA/AO (2D)
- AO/LA (2D)

● Vascular

- Stenosis D
- Stenosis A

● Urology

- Renal L
- Renal H
- Renal W

Portable Color Doppler Ultrasonic Diagnostic System

- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- Prostate L
- Prostate H
- Prostate W
- Seminal L
- Seminal H
- Seminal W
- Testicular L
- Testicular H
- Testicular W
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Prostate Mass1 d1
- Prostate Mass1 d2
- Prostate Mass1 d3
- Prostate Mass2 d1
- Prostate Mass2 d2
- Prostate Mass2 d3
- Prostate Mass3 d1
- Prostate Mass3 d2
- Prostate Mass3 d3
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W
- Scrotal Wall
- Renal Vol
- Prostate Vol
- Testis Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol

● SmallParts

- Thyroid L
- Thyroid H
- Thyroid W
- Isthmus H
- Testicular L
- Testicular H
- Testicular W
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W

Portable Color Doppler Ultrasonic Diagnostic System

- Scrotal Wall
- Breast Mass1 L
- Breast Mass1 H
- Breast Mass1 W
- Nip. -Mass1 Dist.
- Skin-Mass1 Dist.
- Breast Mass2 L
- Breast Mass2 H
- Breast Mass2 W
- Nip. -Mass2 Dist.
- Skin-Mass2 Dist.
- Breast Mass3 L
- Breast Mass3 H
- Breast Mass3 W
- Nip. -Mass3 Dist.
- Skin-Mass3 Dist.
- Breast Mass4 L
- Breast Mass4 H
- Breast Mass4 W
- Nip.-Mass4 Dist.
- Skin-Mass4 Dist.
- Breast Mass5 L
- Breast Mass5 H
- Breast Mass5 W
- Nip. -Mass5 Dist.
- Skin-Mass5 Dist.
- Breast Mass6 L
- Breast Mass6 H
- Breast Mass6 W
- Nip. -Mass6 Dist.
- Skin-Mass6 Dist.
- Breast Mass7 L
- Breast Mass7 H
- Breast Mass7 W
- Nip. -Mass7 Dist.
- Skin-Mass7 Dist.
- Breast Mass8 L
- Breast Mass8 H
- Breast Mass8 W
- Nip. -Mass8 Dist.
- Skin-Mass8 Dist.
- Breast Mass9 L
- Breast Mass9 H
- Breast Mass9 W
- Nip. -Mass9 Dist.
- Skin-Mass9 Dist.
- Breast Mass10 L
- Breast Mass10 H
- Breast Mass10 W
- Nip. -Mass10 Dist.
- Skin-Mass10 Dist.
- Thyroid Mass1 d1
- Thyroid Mass1 d2
- Thyroid Mass1 d3
- Thyroid Mass2 d1
- Thyroid Mass2 d2
- Thyroid Mass2 d3
- Thyroid Mass3 d1
- Thyroid Mass3 d2
- Thyroid Mass3 d3
- Thyroid Vol
- B- distance
- Pleural T

● Orthopedics

- HIP
- HIP (α)
- HIP (β)
- HIP-Graf

Portable Color Doppler Ultrasonic Diagnostic System

- d/D

- Obstetrics
  - GS
  - YS
  - CRL
  - NT
  - BPD
  - OFD
  - HC
  - AC
  - FL
  - TAD
  - APAD
  - TCD
  - CM
  - LVW
  - HW
  - OOD
  - IOD
  - HUM
  - Ulna
  - RAD
  - Tibia
  - FIB
  - CLAV
  - Vertebrae
  - MP
  - Foot
  - Ear
  - APTD
  - TTD
  - FTA
  - THD
  - Hrtc
  - TC
  - Umb VD
  - F-kidney
  - Mat kidney
  - Cervix L
  - AF
  - NF
  - Orbit
  - PL Thickness
  - Sac Diam1
  - Sac Diam2
  - Sac Diam3
  - AF1
  - AF2
  - AF3
  - AF4
  - LVIDd
  - LVIDs
  - LA Diam
  - LV Diam
  - RVIDd
  - RVIDs
  - RA Diam
  - RV Diam
  - IVSd
  - IVSs
  - IVS
  - LA Area
  - LV Area
  - RV Area
  - RA Area
  - Ao Diam
  - MPA Diam
  - LVOT Diam

Portable Color Doppler Ultrasonic Diagnostic System

- LVOT Diam
- Facial Angle
- HrtA
- MV Diam
- PV Diam
- Ao Asc Diam
- Ao Desc Diam
- Duct Art. Diam
- TV Diam
- LPA Diam
- RPA Diam
- IVC Diam
- AV Diam
- UT L
- UT H
- UT W
- Endo
- Mean Sac Diam
- AFI
- EFW
- EFW2
- HC/AC
- FL/AC
- FL/BPD
- AXT
- CI
- FL/HC
- HC (C)
- Hrtc/TC
- TCD/AC
- LVW/HW
- LVD/RVD
- LAD/RAD
- AoD/MPAD
- LAD/AoD

● Emergency

- Renal L
- Renal H
- Renal W
- CBD
- Portal V Diam
- CHD
- GB wall th
- Aorta Diam
- Aorta Bif
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- GS
- YS
- CRL
- UT L
- UT H
- UT W
- Endo
- Ovary L
- Ovary H
- Ovary W
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol
- Ovary Vol
- UT Vol

- UT SUM

5.2 M mode

- General
  - Distance (M)
  - HR (M)
  - Slope
  - Time (M)
  - Velocity
- Cardiology
  - Ao Arch Diam (M)
  - Ao Asc Diam (M)
  - Ao Desc Diam (M)
  - Ao Diam (M)
  - Ao Isthmus (M)
  - Ao Sinus Diam (M)
  - Ao st junct (M)
  - ACS (M)
  - HR (Cube M)
  - HR (Gibson M)
  - HR (Teich M)
  - IVSd (M)
  - IVSs (M)
  - LA Diam (M)
  - LPA Diam (M)
  - Diastole (Cube M)
  - Diastole (Gibson M)
  - Diastole (Teich M)
  - Systole (Cube M)
  - Systole (Gibson M)
  - Systole (Teich M)
  - LVET (M)
  - LVIDd (Cube M)
  - LVIDd (Gibson M)
  - LVIDd (Teich M)
  - LVIDd (M)
  - LVIDs (M)
  - LVIDs (Cube M)
  - LVIDs (Gibson M)
  - LVIDs (Teich M)
  - LVPEP (M)
  - LVPWd (M)
  - LVPWs (M)
  - MCS (M)
  - MPA Diam (M)
  - MV A Amp
  - MV E Amp
  - MV D-E Slope
  - MV DE
  - MV E-F Slope
  - MV EPSS (M)
  - PEd (M)
  - PEs (M)
  - RPA Diam (M)
  - RVAWd (M)
  - RVAWs (M)
  - RVDd (M)
  - RVDs (M)
  - RVET (M)
  - RVPEP (M)
  - TAPSE
  - IVSd (LV Mass Cube-M)
  - LVIDd (LV Mass Cube-M)
  - LVPWd (LV Mass Cube-M)
  - MV C-O dur
  - LVET (LV Tei Index-M)
  - LA/AO (M)
  - AO/LA (M)
- Obstetrics

- FHR
- LVIDd (M)
- LVIDs (M)
- RVIDd (M)
- RVIDs (M)
- IVSd (M)
- IVSs (M)

- Emergency
  - FHR

5.3 Doppler

- General
  - PS/ED
  - Vel
  - HR (Doppler)
  - Time (Doppler)
  - Acceleration
  - D Trace
  - Ratio (Vel)
  - Ratio (VTI)
  - Vol Flow
    - →Vas Area
    - →TAMEAN
    - →TAMAX
- Abdomen
  - Ren A Org
  - Arcuate A
  - Segment A
  - Interlobar A
  - Renal A
  - M Renal A
  - Renal V
  - Aorta
  - Celiac Axis
  - SMA
  - C Hepatic A
  - Splenic A
  - IVC
  - Portal V
  - M Portal V
  - Hepatic V
  - Lt Hepatic V
  - Rt Hepatic V
  - M Hepatic V
  - Splenic V
  - SMV
  - RAR
  - SMA/AO
  - CA/AO
- Cardiology
  - MV Aa (lateral)
  - MV Aa (medial)
  - AAo Vmax
  - AV VTI
  - AV Vmax
  - AR DecT
  - AR PHT
  - AR Ved
  - AR Vmax
  - AR VTI
  - MV ARa (lateral)
  - MV ARa (medial)
  - ASD Vmax
  - AV AccT
  - AV DccT
  - Coarc Pre-Duct
  - Coarc post-Duct
  - DAo Vmax

Portable Color Doppler Ultrasonic Diagnostic System

- MV DRa (lateral)
- MV DRa (medial)
- MV Ea (lateral)
- MV Ea (medial)
- HR (Doppler)
- IVC Vel (Expir)
- IVC Vel (Insp)
- IVCT
- LPA Vmax
- LVET (Doppler)
- LVOT AccT
- LVOT VTI
- LVOT Vmax
- LVPEP (D)
- MPA Vmax
- dp/dt
- MR VTI
- MR Vmax
- MS Vmax
- MV A Dur
- MV A Vel
- MV VTI
- MV AccT
- MV DecT
- MV E Dur
- MV E Vel
- MV E VTI
- IVRT
- MV VTI
- MV Vmax
- PVein A Dur
- PVein A Vel
- PVein D Vel
- PVein D VTI
- PVein DecT
- PVein S Vel
- PVein S VTI
- PDA Vel (d)
- PDA Vel (s)
- PR PHT
- PR VTI
- PR Ved
- PR Vmax
- PV AccT
- PV VTI
- PV Vmax
- RAP
- RAP Vmax
- RVET (Doppler)
- RVOT Vmax
- RVOT VTI
- RVPEP (Doppler)
- MV Sa (lateral)
- MV Sa (medial)
- SVC Vel (Expir)
- SVC Vel (Insp)
- TR VTI
- TR Vmax
- TV A Dur
- TVA Dur
- TV A Vel
- TV AccT
- TV DecT
- TV E Vel
- TV VTI
- TV Vmax
- VSD Vmax
- Hepatic V S Vel

- Hepatic V D Vel
- MV HR
- TV HR
- AV HR
- PV HR
- MV C-O dur (D)
- LVET (LV Tei Index-Doppler)
- AR Rad
- AR Als Vel
- MR Rad
- MR Als Vel
- PR Rad
- PR Als Vel
- TR Rad
- TR Als Vel
- TV C-O dur
- RVET (RV Tei Index)
- MV E/A
- MVA (PHT)
- TV E/A
- TVA (PHT)

● Vascular

- CCA
- Bulb
- ICA
- ECA
- Vert A
- InnomA
- SubclavA
- Axill A
- Brachial A
- Ulnar A
- Radial A
- Subclav V
- Axill V
- Cephalic V
- Basilic V
- Ulnar V
- Radial V
- C. IliacA
- Ex.lliac A
- CFA
- SFA
- PopA
- TP Trunk A
- Peroneal A
- P. TibA
- A. TibA
- Dors.Ped A
- C. Iliac V
- Ex. Iliac V
- Femoral V
- SaphV
- PopV
- TP Trunk V
- Sural V
- Soleal V
- Peronea V
- P. TibV
- A. TibV
- ACA
- MCA
- PCA
- AComA
- PComA
- BA
- IIA
- DFA

- Ba V
- Brachial V
- IIV
- CFV
- SFV
- DFV
- SSV
- ASP
- BSP
- ICA/CCA (PS)

● Urology
- Testis A
- Testis V
- Epididymis A
- Epididymis A

● SmallParts
- STA
- ITA

● Obstetrics
- Umb A
- Duct Veno
- Placenta A
- MCA
- Fetal Ao
- Desc Aorta
- Ut A
- Ovarian A
- FHR (Doppler)
- Asc Aorta
- RVOT
- LVOT

● Emergency
- FHR

6 System setup

6.1 System Preset

● Region

- Hospital Info: Name, Address, Telephone, Fax, Hospital icon

- Language & Time:

→ Languages: English, Chinese, French, Russian, Spanish

→Time Zone

→Date & Time

→DateFormat: yyyy-MM-dd, MM-dd-yyyy dd-MM-yyyy

→Time Format: 24Hours, 12Hours

● General

- Patient information

→Patient Information: Name, DOB, Gender, Age, Hospital, ID, Operator

→Height and Weight unit: Metric, British

→Body surface area formula(BSA): Eastern, Western

- Exam Settings

→Status after exam ends: Scan, New Patient, Worklist

→Send after exam

- Sleep Mode

→ScreenSaver: Waiting 1,10,30,60 min

→Standby: Waiting 1,10,30,60 min

● Image

- Image Storage

→Cine lengths (s):Adjustable

CardiacCycle: 1~16

→Image Size: Image Area, Standard Area

→Video Output: PAL, NTSC

- Image Setting

→Transducer: 3C5PD, 3C5PB, 3C5PDS, 7L4PD, 7L4PB, 7L4PDS, 2P2MA, 3P2PA, 6E1PD, 6E1PDS, 6E1PB, 6C1PD, 4V4CDS

→Display Format: V2:3, V3:2, V3:1, H2:3, Full

→TI Style: TIB, TIC, TIS

→Freeze: Replay, Measure, Caliper

→Steer: C&PW, C/PW, Auto Invert

→Auto Invert

→Horizontal Ruler

→Panoramic Ruler

- Apply

- Measuring Cursor

→ Type: Number, Symbol

→Size: Large, Medium, Small

→Color (Active): Green, Yellow, Red, White

→Color (Inactive):Green, Yellow, Red, White

→Result Size: Large, Medium, Small

→Cardiac cycle: 1~8

→Delete the measurement results when deleting calipers

- Comment

→Font Size: Large, Medium, Small

→Arrow Size: Large, Medium, Small

→Automatically clear comments when unfreeze the image or switch the probe or exam mode

→Automatically clear the body mark when unfreeze the image

- Follicle

→Calculation method: Signal, Double, Three

- OB

- Fetal GA

  - Mean Sac Diam →Daya, Hellman
  - OOD→ Jeanty
  - TCD→Hill, Nicolaides
  - CLAV→Yarkoni
  - Tibia→ Jeanty
  - Ulna→ Jeanty
  - HUM→ Jeanty, ASUM
  - THD→Hansmann
  - FTA→Osaka
  - TAD→CFEF
  - OFD→Hansmann, Nicolaides, ASUM
  - FL→Hadlock, Tokyo, Merz, Hansmann, Warda, Chitty, Osaka, Nicolaides, ASUM, Jeanty, Hohler, China
  - AC→Hadlock, Jeanty, Merz, Chitty, ASUM, CFEF, Hansman
  - HC→Hadlock, Jeanty, Hansmann, ChittyPL, Chitty_Derived, Nicolaides, ASUM, CFEF
  - BPD→Hadlock, Tokyo, Jeanty, Kurtz, Hansmann, Merz, Rempen, ChittyOI, Osaka, China, Nicolaides, ASUM
  - CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM, Jeanty, Nelson, China, RobinsonBMUS
  - GS→Rempen, Tokyo, Hansmann, China
  - EFW2→Hadlock, Tokyo
  - EFW→Hadlock, Tokyo
  - Result Windows:

→Display EDD

→Display GA in the report

- Fetal Weight
  - FetalWeight
    - →Hadlock (AC,FL)
    - →Hadlock (AC,FL,BPD)
    - →Hadlock (AC,FL,HC)
    - →Hadlock (AC,FL,HC,BPD)
    - →Shepard
    - →Merz1
    - →Merz2
    - →Hansmann (BPD,THD)
    - →Tokyo
    - →Osaka (FL,BPD,FTA)
    - →Campbell
  - FetalWeight2
    - →Hadlock (AC,FL)
    - →Hadlock (AC,FL,BPD)
    - →Hadlock (AC,FL,HC)
    - →Hadlock (AC,FL,HC,BPD)
    - →Shepard
    - →Merz1
    - →Merz2
    - →Hansmann (BPD,THD)
    - →Tokyo
    - →Osaka (FL,BPD,FTA)
    - →Campbell
  - WeightUnit: METRIC, IMPERIAL, METRIC & IMPERIAL
- Fetal Weight Percentile
  - Formula: NULL, Hadlock, Brenner, William
  - Type: AUA/CUA, LMP&AUA/CUA, LMP
- Fetal Growth Curve
  - FL/HC→Hadlock
  - HC/AC→Campbell
  - AFI→Moore
  - UmbARI→JSUM
  - UmbAPI
  - MCARI→JSUM
  - MCAPI
  - CM→Nicolaides
  - TCD→Hill, Goldstein, Nicolaides
  - CLAV→Yarkoni
  - FIB→Merz, Jeanty
  - RAD→Merz, Jeanty
  - Tibia→Merz, Jeanty
  - Ulna→Merz, Jeanty
  - HUM→ ASUM, Jeanty, Merz
  - THD→Hansmann
  - FTA→Osaka
  - TAD→Merz, CFEF
  - APAD→Merz
  - OFD→Hansmann, Merz, Nicolaides, ASUM, Jeanty
  - FL→Hadlock, Tokyo, Merz, Hansmann, O_Brien, Warda, Chitty, Jeanty, Osaka, Nicolaides, ASUM, CFEF
  - AC→Hadlock, Jeanty, Merz, Chitty, Nicolaides, ASUM, CFEF, Hansman
  - HC→Hadlock, Merz, Hansmann, Jeanty, CFEF, ChittyPL, Chitty_Derived, Nicolaides, ASUM
  - BPD→Hadlock, Tokyo, Jeanty, Kurtz,

Sabbagha, Hansmann, Merz, Rempen, ChittyOI, Osaka, Nicolaides, ASUM, CFEF

- CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM
- GS→Rempen, Tokyo, Hansmann, Hellman
- EFW2→Hadlock, Hansmann, Tokyo, Brenner, William
- FEW→Hadlock, Hansmann, Tokyo, Brenner, William
- OB Graph:1*1, 1*2, 2*2,2*1

- Customize

- Button Type: Button, Foot Switch
- Button: Save1, Save2, Q1, Q2, Q3, Q4, Print
- Function Type
  - Output: Save Image, Save Cine
  - Print: Analog Print, Digital Print
  - Image Mode:
    - →Enter TDI Mode
    - →Enter Elasto Mode
    - →Enter Pano Mode
    - →Enter Anatomic M Mode
    - →Enter Dual Live Mode
    - →Enter Quad Mode
  - Other: Q Save, Freeze/Unfreeze, Ultrasound assistant
- Trackball Speed: Slow, Medium, Fast
- Button Brightness:0-9
- Button Volume: On/Off

- Admin

- Enable Admin: On/Off
  - Username, password, Add, Delete, Change Password

6.2 Exam Preset

- Available on All transducers
- Add New Applications
- Delete Applications
- Set up Default Clinical App of boot
- Adjustable position of application

6.3 Measure Preset

- Measure
  - Measurement items can be added and moved
  - 2D, M, Doppler
- Caliper
  - Measurement items can be added and moved
  - 2D, M, Doppler
- Report
  - Preset Report Template Name

6.4 Network Preset

- Local TCP/IP

-Wired Network

  - DHCP, Static

    IP Address, Subnet Mask, Gateway

- DICOM Local

-Localhost Dicom Service Property

  - AE Title, Port, PDU

- Serve Setting
  - Device, IP

- Device list
  - Device, IP
  - Set Dicom Service, Delete

- DICOM Service

- Storage
- Print
- Worklist
- MPPS

- Storage Commitment
- Query/retrieve

6.5 Print Preset

- Print Service
  - Add
  - Delete
  - Rename
  - Add Printer
  - Default
- Printer Property

  Service Type, Service Name, Printer, Paper Orientation, Paper Size
- Printing Parameter

  Brightness, Contrast, Saturation, Rows, Columns

6.6 About & Maintenance

- System Info
- Detailed Info
- Option
- Other

7 Transducer Parameters

- Convex probe 3C5PD

  - Applications: ABD, OB, GYN, PedABD, Urology
  - Number of Elements:128
  - Harmonics frequency: 1.2-3.0, 2.6-4.5, 4.2-6.5MHz
  - Basic frequency: 3.4, 4.0, 5.0, 6.4MHz
  - Depth range: 40~420mm
- Linear array probe 7L4PD

  - Applications: Carotid, Thyroid, Nerve, Superficial, MSK, PedABD, Orthopedic, Vascular
  - Number of Elements: 128
  - Harmonics frequency: 4.2-6.3, 6.0-9.5, 8.5-15.0MHz
  - Basic frequency: 8.0, 9.4, 10.6, 12.2MHz
  - Depth range: 20-280mm
- Phased array probe 3P2PA

  - Applications: Adult Cardiac, Ped Cardiac, TCI, ABD
  - Number of Elements: 64
  - Harmonics frequency: 1.2-2.6, 2.4-3.8, 3.5-6.5MHz
  - Basic frequency: 3.0, 4.0, 5.0, 6.0MHz
  - Depth range: 30~320mm
- Volume probe 4V4CDS

  - Applications: ABD, OB, GYN
  - Number of Elements: 128
  - Harmonics frequency: 1.6-3.0, 2.8-4.5, 4.2-8.0MHz
  - Basic frequency: 5.0, 6.4, 7.2, 8.0MHz
  - Depth range: 40~420mm
- Trans-vaginal probe 6E1PD

  - Applications: OB/GYN, Prostate
  - Number of Elements: 128
  - Harmonics frequency: 3.2-5.5, 5.2-7.5, 6.8-12.0Hz
  - Basic frequency: 6.4, 7.2, 8.0, 10.0MHz
  - Depth range: 20~280mm
- Micro-convex Probe 6C1PD

  - Applications: Ped ABD, Ped Cardiac, TCI
  - Number of Elements: 128
  - Harmonics frequency: 3.5-6.3, 6.0-7.5, 6.8-12.0MHz

Portable Color Doppler Ultrasonic Diagnostic System

- Basic frequency: 6.4, 7.2, 8.0, 10.0MHz
- Depth range: 20~280mm

8 System Inputs & Outputs

- HDMI: 1
- PRINT: 1
- USB 2.0: 2
- USB 3.0: 1
- S-Video: 1
- Video: 1
- Network port: 1
- Power in: 1

9 Standard Package

- Main Unit
- Transducers selectable
- Power cord/grounding cable
- Fuse (2)
- User's Manual
- Coupling Gel (0.25L)

10 Optional Accessories

- Transducers
- Pedal Switch
- Thermal Printer
- Laser Printer
- Biopsy

11 Certificates

- Quality Standards
  - ISO9001
  - ISO13485

◆ NOTICE:

Not all features or specifications described in this document may be available in all transducers and all modes.

Zoncare reserves the right to make changes in specifications and features shown herein.

BAWERS

MEDICAL EQUIPMENT

BWUC500

Portable Color Doppler Ultrasonic System

Slimmer I Clearer I Stronger



Ergonomic Design

Match the ingenious ergonomic design with the compact size, BWUC-500 has remarkable adaptability which can fit variable usage scenario.



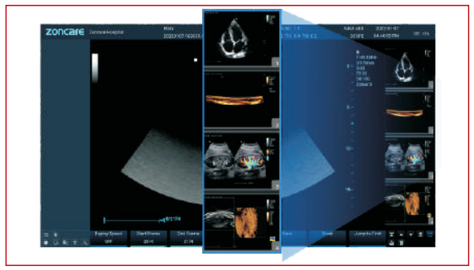


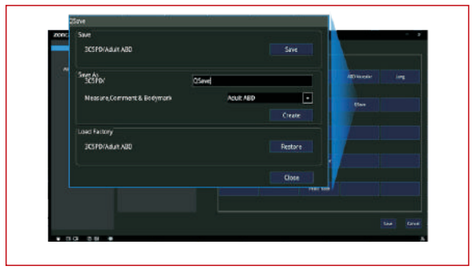
Transducers

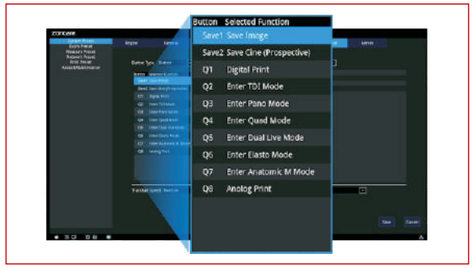


Efficient and Fast Workflow

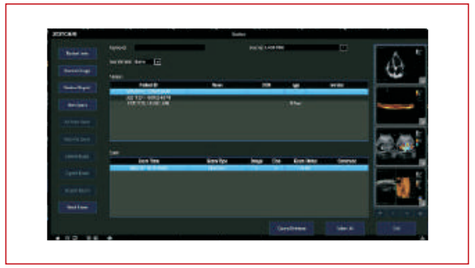
- Multiple user-defined programming buttons
- One-key Automatic Optimization Technology
- One-key operation flow, quick switching and easy to use
- Visualize user-defined presets function (QSave)
- Metadata and image postprocessing
- DICOM 3.0
- USB 3.0 port makes transmission more convenient
- Thumbnail clipboard - easy to review the images and videos


Clipboard


Qsave



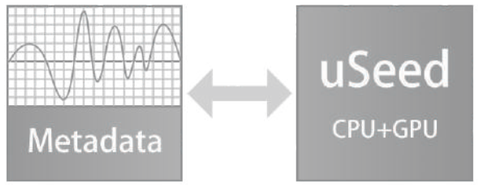
Station


User-defind Buttons



uSeed Platform

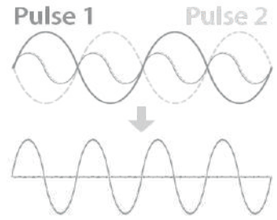
BWUC-500 facilitates accurate diagnosis based on uSeed metadata beamforming imaging technology platform. This brand-new platform is developed by CPU + GPU heterogeneous computing technology. The images in uSeed platform are saved as metadata for postprocessing.



Technologies

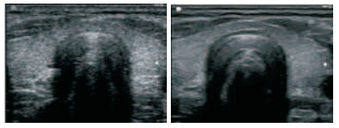
Pulse Inverse Harmonic Imaging PIHI

PIHI reduces the distortion generated by the fundamental wave, and greatly improve the signal-to-noise ratio.



Speckle Reduction Imaging

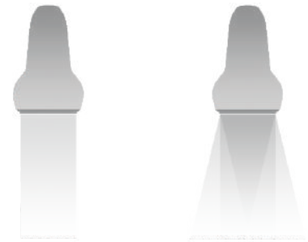
SRI technology significantly reduces the unwanted speckle, provides enhanced tissue boundary and tissue echo for confident clinical diagnosis.



SRI OFF SRI ON

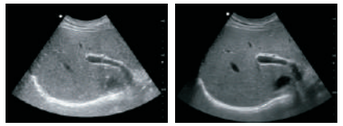
Spatial Compound Imaging

SCI provides better contrast resolution, reduces the speckle noise and smoothes the imaging of homogeneous tissue.



Frequency Composite Imaging

Combine the high penetration of the fundamental frequency and the high resolution of the harmonic frequency to improve the detail resolution and contrast resolution of the near field and the far field to provide the best image quality.



FCI OFF FCI ON

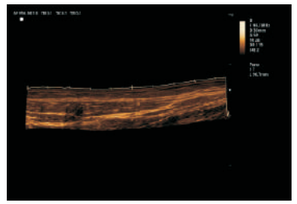


Comprehensive Clinical Applications

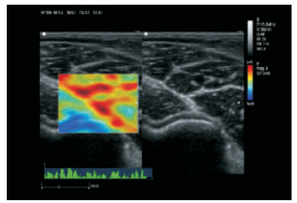
BWUC.500 provides remarkable performance in Abdomen, Gynecology (including endocavity), Obstetric, Cardiology, Small parts (Breast, Testes, Thyroid, etc.), Urology, Musculoskeletal and Peripheral vascular. A variety of imaging modes brings a comprehensive clinical application.

- B Steer, 3D/4D, ZPage, Zlive, PW, CW, AMM, CMM, Panoramic Imaging, Elastic imaging mode, EFOV, TDI
- Auto IMT, Auto NT, Auto Trace, TSI, THI, SRI, SCI, FCI, Biopsy function

Radiology

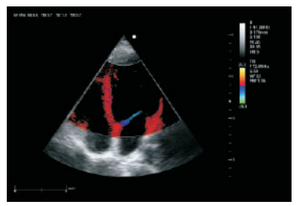


Panoramic Imaging
Panoramic Imaging could help to get extended and complete view of the anatomical structure.

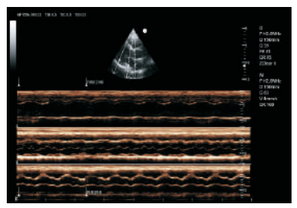


Elastic Imaging
Elastography plays an important role in clinical diagnosis, especially in lesions assessing. Elastography imaging could detect the hardness of nodule, therefore it may help to differentiate malignant from benign lesions.

Cardiology

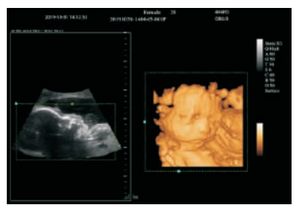


TDI
Tissue Doppler Imaging (TDI) could monitor local myocardial movement, and evaluate the movement quantitatively.



AMM
AMM allows placing up to 3 sample lines at any angles, the thickness and thickening of each ventricular wall could be observed accurately, which is also helpful for the accurate meas urement of ejection fraction.

Obstetrics and Gynecology



3D/4D
Zoncare advanced 3D/4D mode delivers amazing lifelike 3D/4D images. With Zlive, M30 has the ability to manipulate light and shadow anywhere in the images.

BAWERS-M5

Full Digital Color Doppler Ultrasonic

Diagnostic System

Datasheet



BAWERS-M5

Full Digital Color Doppler Ultrasonic Diagnostic System

1. System Overview

1.1. Clinical Applications

- Abdomen
- Obstetrics
- Gynecology
- Urology
- Cardiology
- Pediatric
- Small Parts
- Blood Vessel
- Superficial
- Orthopedic
- MSK
- Nerve
- Custom

1.2. Probe Types

- Convex Probe
- Linear array Probe
- Trans-vaginal Probe
- Micro-convex Probe
- Phased array Probe

1.3. Imaging modes

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- Trapezoidal (Linear probe)
- Extended imaging(Efov)
- CW -Mode

1.4. Standard features

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- CW Mode
- Trapezoidal (Linear probe)
- Extended imaging(Efov)
- Tissue Specific Imaging (TSI)
- Tissue Harmonic Imaging (THI)
- Speckle Reduction Imaging (SRI)
- Spatial Composite Imaging(SCI)
- Frequency Composite Imaging(FCI)
- B/D Chromatic imaging
- Pan Zoom
- Local Zoom
- Auto Optimization
- Image Rotation
- Auto Calculate
- Auto IMT
- Archive management
- Raw data
- Multiple pregnancies
- HR Flow
- HPRF
- Imaging postprocessing
- Imaging preprocessing
- 12 inch monitor

1.5. Optional features

- Built-in Li-ion battery
- Laser/thermal printer

- Puncture
- Foot Switch
- DICOM
- UPS

1.6 Image saving

- Format: Origin,JPG,AVI,BMP,TIFF,DCM

2. Physical Specification

2.1. Dimension and weight

- Main Unit Dimensions:

  155mm×360mm×370mm; 7.30kg

- Package Dimensions(Carton):

  460mm×370mm×565mm; 12kg

2.2. Monitor

- 12-inch high resolution color display screen
- Resolution: 1024*768
- Tilt angle range 0-90° (U/D)

2.3. Probe ports and holders

- Probe Ports: 2 Activated Ports
- Probe Holders: 2 Probe Holders

2.4. Electrical power

- AC adapter Input
  - Voltage: 100-240V~
  - Frequency: 50/60Hz
  - Output Voltage: 19V±1
  - Power : 200VA

2.5. Operation Environment

- Ambient temperature: 5℃~+40℃
- Relative humidity: 25%~80%
- Atmospheric pressure: 70kpa ~106kpa

2.6. Storage &Transport Environment

- Ambient temperature: -20℃~+55℃
- Relative humidity: 10%~95%
- Atmospheric pressure: 50kpa-106kpa

2.7. Main body

- 500G HDD
- Operating system -- Linux

3. User Interface

3.1. Monitor information

- Common info:
  - Logo
  - Hospital name
  - Display Parameters
  - System date &Time
  - Clinical application
  - Probe type
  - Exam mode
  - Patient Name, Age, Gender
  - Probe mark
  - Focus position
  - Parallel scale & Vertical scale
  - Freeze mark
  - TGC Curve
  - Acoustic power
  - Gray bar/ Color bar

3.2. Control panel

- Power On/Off
- AC/Battery/Charge indicate lights
- Alphanumeric keys and keyboards lights
- Imaging Mode buttons
  - B, C, PW, M, CMM, CW, PDI
- Parameter shortcut keys
  - Scale
  - Angle
  - Sample Volume
  - Depth
  - Focus
  - Baseline
  - Gain
- Freeze button

- Function
  - Value
  - Caliper
  - Update
  - File
  - Report
  - Patient
  - Probe
  - Save Cine
  - Save Img
  - Preset
  - Body Mark
  - Arrow
  - Back
  - Print
  - Comment
  - Clean
- 8-segment TGC control
- Trackball
- Keyboard

3.3. System boot-up

- Boot-up in about 60s
- Shut down in about 5s
- Standby time: 1, 10,30, 60 min
- Screen saver: 1, 10,30, 60 min

3.4. Comments & Arrow

- Arrow position adjustable
- Arrow size adjustable
- Arrow direction adjustable
- Comments position adjustable
- Comments fontsize adjustable
- User-defined adding and deleting
- Association of other exam

3.5. Body Marks

- More than 200 body-marks
- Customizable Add
- Drag to change the position
- Association of other exam

4. Imaging Parameters

4.1. B mode

- Display Format : B (Single), 2B(Dual), 4B(Quad)
- U/D Reverse: Adjustable on monitor
- L/R Reverse:Adjustable on monitor
- Depth: Depend on different probe
- Frequency: Depend on different porbe
- THI:
  - →Tissue Harmonic Imaging
  - →Available on all probes
- B steer:
  - →For linear probe
  - →Left 4 steps adjustable
  - →Right 4 steps adjustable
- Gain: 0~100
- Pan Zoom: Z0.8, Z0.9, Z1.1, Z1.2, Z1.4, Z1.6,Z1.8,Z2.0,Z3.0,Z5.0,Z6.0, Z7.0,Z8.0,Z9.0,Z10.0
- Horizontal Ruler:Hide/Display
- Center Line : Convex probe
- Image Quality: Pen, Gen, Res, HPen, HPen-Gen, HGen, HRes
- Dyn Ra(Dynamic range): 30-180, 5/step
- SRI(Speckle Reduction Imaging):0~6, 1/step
- Persistence : 0~6, 1/step
- Gray Map: 1~10, 1/step
- TSI: General, Muscle, Fat, Fluid
- Chrome:0~8, 1/step
- Field of View: 1~8, 1/step
- SCI(Spatial Composite Imaging）: 0~7, 1/step
- FCI (Frequencfy Composite Imaging):

→0 or 1

- Line Density: L, H
- EFOV:

→0, 1, 2 Adjustable

→Extended FOV available on Convex, Linear, Trans-vaginal, 4D volume

- Focus Count: Up to 8

4.2. M mode

- Display Format

→V2:3, V3:2, V3:1, H2:3, Full

- Dyn Ra.: 30~180, 5/step
- Gray Map: 1~10, 1/step
- Speed: 1~6, 6 steps adjustable
- Chrome: 0~8, 1/step
- Replay Speed(Freeze)
- Select Start(Freeze)
- Select End(Freeze)

4.3. C mode

- ROI Position: trackball
- ROI Size: trackball&set key
- ROI Steer: Linear probe

→Left 4 steps adjustable

→Right 4 steps adjustable

- Dual Live: B/C, B/PDI, B/DPDI
- B/C Align
- Quad: Color 4B
- HR Flow
- Image Quality:Pen, Gen, Res
- Scale: 0~19, 1/step
- PRF: 0.2~7.9KHz
- Wall Filter: 0~7 , 1/step
- Smooth: 0~5 , 1/step
- Persistence: 0~5, 1/step
- Priority : 0~100 , 1/step
- Color Map: V0~VV9, 20 steps
- Sensitivity: 1~4, 1/step
- Flow State:L M H
- Line Density: L/H

4.4. PW mode

- SV: 0.5~40mm, 0.5mm/step
- Invert: Up/Down
- Multi sync: ON/OFF
- Display Format:

→V2:3, V3:2, V3:1, H2:3, Full

- Auto Calc: ON/OFF
- Auto Calc Para

→AT, D/S, DT, ED, Flow(TAMAX), VTI, Flow(TAMEAN), HR, MD, MMPG, MPG, PI,PPG,PS,PV,RI,S/D,TAMAX, TAMEAN

→User-defined selection

- HPRF: ON/OFF
- Image Quality: Pen, Gen,Res
- Scale:0~19 , 1/step
- PRF: 0.2KHz~12.0KHz
- Dyn Ra.: 24~72, 2/step
- Gray Map: 1~10, 1/step
- Speed:1~6, 1/step
- Chrome: 0~8, 1/step
- Trace Area: Above, Below, All
- Wall Filter: 0~7, 1/step
- T/F Resolution: 1~5, 1/step
- Auto calc cycle: 1, 2, 3 Adjustable
- Replay Speed (Freeze,off, X1/10, X1/5, X1/4, X1/3, X1/2,X1,X2, X3)
- Select Start(Freeze)
- Select End(Freeze)

4.5. CW Mode

- Image Quality: Gen
- Dyn Ra.: 24-72, 2/step
- PRF: 0.2KHz~120.0KHz

- Speed: 1-6
- Angle: -80° ~80° , 1° /step
- Gray Map: 1-10
- Wall Filter: 0-7, 1/step
- Chroma: 0-8
- T/F Resolution: 1-5, 1/step
- Invert: On/Off
- Volume: 0-100, 1/step
- Display Format: Full, V2:3, V3:2, V3:1, H2:3
- baseline:17 step
- Auto Spectrum
- Auto Calc: On/Off
- Auto Calc Para:

→Automatic spectrum calculation results

AT, D/S, DT, ED, Flow (MAX), VTI, Flow (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

→User-defined selection

5. Measurement

5.1. 2D mode

- General
  - Distance(2D)
  - Trace
  - Ellipse
  - Angle
  - Volume
  - Ratio(D)
  - Ratio(Trace)
  - Ratio(Ellipse)
  - Spline
  - Cross
  - Double Dist
  - Trace Len
  - Trace Len(Spline)
  - Parallel
  - B-Profile
  - B-Hist (Ellipse)
  - B-Hist (Trace)
  - B-Hist (Spline)
  - B-Hist (Rectangle)
  - Depth
  - Color Vel
  - Volume (Ellipse)
  - Volume(E+Dist)
  - Ratio (Spline)
  - Ratio (Cross)
  - Strain Ratio
  - IMT
  - Vol Flow

    →Vas Area, TAMEAN, TAMAX
- Abdomen
  - Liver
  - Renal L
  - Renal H
  - Renal W
  - Cortex
  - Adrenal L
  - Adrenal H
  - Adrenal W
  - CBD
  - Portal V Diam
  - CHD
  - GB L
  - GB H
  - GB wall th
  - Panc duct
  - Panc head
  - Panc body
  - Panc tail
  - Spleen
  - Aorta Diam

- Aorta Bif
- Iliac Diam
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Ureter
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol

- Gynecology
  - UT L
  - UT H
  - UT W
  - Cervix L
  - Cervix H
  - Cervix W
  - Endo
  - Ovary L
  - Ovary H
  - Ovary W
  - Follicle1 L
  - Follicle1 H
  - Follicle1 W
  - Follicle2 L
  - Follicle2 H
  - Follicle2 W
  - Follicle3 L
  - Follicle3 H
  - Follicle3 W
  - Follicle4 L
  - Follicle4 H
  - Follicle4 W
  - Follicle5 L
  - Follicle5 H
  - Follicle5 W
  - Follicle6 L
  - Follicle6 H
  - Follicle6 W
  - Follicle7 L
  - Follicle7 H
  - Follicle7 W
  - Follicle8 L
  - Follicle8 H
  - Follicle8 W
  - Follicle9 L
  - Follicle9 H
  - Follicle9 W
  - Follicle10 L
  - Follicle10 H
  - Follicle10 W
  - Follicle11 L
  - Follicle11 H
  - Follicle11 W
  - Follicle12 L
  - Follicle12 H
  - Follicle12 W
  - Follicle13 L
  - Follicle13 H
  - Follicle13W
  - Follicle14 L
  - Follicle14 H
  - Follicle14 W
  - Follicle15 L
  - Follicle15 H
  - Follicle15 W
  - Follicle16 L
  - Follicle16 H
  - Follicle16 W

- Ovary Vol
- UT Vol
- Uterus Body
- UT-L/CX-L

- Vascular
  - Stenosis D
  - Stenosis A
  - IMT
- Urology
  - Renal L
  - Renal H
  - Renal W
  - Cortex
  - Adrenal L
  - Adrenal H
  - Adrenal W
  - Prostate L
  - Prostate H
  - Prostate W
  - Seminal L
  - Seminal H
  - Seminal W
  - Testicular L
  - Testicular H
  - Testicular W
  - Ureter
  - Pre-BL L
  - Pre-BL H
  - Pre-BL W
  - Post-BL L
  - Post-BL H
  - Post-BL W
  - Prostate Mass1 d1
  - Prostate Mass1 d2
  - Prostate Mass1 d3
  - Prostate Mass2 d1
  - Prostate Mass2 d2
  - Prostate Mass2 d3
  - Prostate Mass3 d1
  - Prostate Mass3 d2
  - Prostate Mass3 d3
  - Testicular Mass1 d1
  - Testicular Mass1 d2
  - Testicular Mass1 d3
  - Testicular Mass2 d1
  - Testicular Mass2 d2
  - Testicular Mass2 d3
  - Testicular Mass3 d1
  - Testicular Mass3 d2
  - Testicular Mass3 d3
  - Epididymis L
  - Epididymis H
  - Epididymis W
  - Scrotal Wall
  - Renal Vol
  - Prostate Vol
  - Testis Vol
  - Pre-BL Vol
  - Post-BL Vol
  - Mictur. Vol
- SmallParts
  - Thyroid L
  - Thyroid H
  - Thyroid W
  - Isthmus H
  - Testicular L
  - Testicular H
  - Testicular W
  - Testicular Mass1 d1
  - Testicular Mass1 d2
  - Testicular Mass1 d3
  - Testicular Mass2 d1

- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W
- Scrotal Wall
- Breast Mass1 L
- Breast Mass1 H
- Breast Mass1 W
- Nip.-Mass1 Dist.
- Skin-Mass1 Dist.
- Breast Mass2 L
- Breast Mass2 H
- Breast Mass2 W
- Nip.-Mass2 Dist.
- Skin-Mass2 Dist.
- Breast Mass3 L
- Breast Mass3 H
- Breast Mass3 W
- Nip.-Mass3 Dist.
- Skin-Mass3 Dist.
- Breast Mass4 L
- Breast Mass4 H
- Breast Mass4 W
- Nip.-Mass4 Dist.
- Skin-Mass4 Dist.
- Breast Mass5 L
- Breast Mass5 H
- Breast Mass5 W
- Nip.-Mass5 Dist.
- Skin-Mass5 Dist.
- Breast Mass6 L
- Breast Mass6 H
- Breast Mass6 W
- Nip.-Mass6 Dist.
- Skin-Mass6 Dist.
- Breast Mass7 L
- Breast Mass7 H
- Breast Mass7 W
- Nip.-Mass7 Dist.
- Skin-Mass7 Dist.
- Breast Mass8 L
- Breast Mass8 H
- Breast Mass8 W
- Nip.-Mass8 Dist.
- Skin-Mass4 Dist.
- Breast Mass9 L
- Breast Mass9 H
- Breast Mass9 W
- Nip.-Mass9 Dist.
- Skin-Mass9 Dist.
- Breast Mass10 L
- Breast Mass10 H
- Breast Mass10 W
- Nip.-Mass10 Dist.
- Skin-Mass10 Dist.
- Thyroid Mass1 d1
- Thyroid Mass1 d2
- Thyroid Mass1 d3
- Thyroid Mass2 d1
- Thyroid Mass2 d2
- Thyroid Mass2 d3
- Thyroid Mass3 d1
- Thyroid Mass3 d2
- Thyroid Mass3 d3
- Thyroid Vol

● Orthopedics

- HIP
- HIP(α)

BAWERS-M5

Full Digital Color Doppler Ultrasonic Diagnostic System

- HIP(β)
- HIP-Graf
- d/D

- **Obstetrics**
  - GS
  - YS
  - CRL
  - NT
  - BPD
  - OFD
  - HC
  - AC
  - FL
  - TAD
  - APAD
  - TCD
  - CM
  - LVW
  - HW
  - OOD
  - IOD
  - HUM
  - Ulna
  - RAD
  - Tibia
  - FIB
  - CLAV
  - Vertebrae
  - MP
  - Foot
  - Ear
  - APTD
  - TTD
  - FTA
  - THD
  - Hrtc
  - TC
  - Umb VD
  - F-kidney
  - Mat kidney
  - Cervix L
  - AF
  - NF
  - Orbit
  - PL Thickness
  - Sac Diam1
  - Sac Diam2
  - Sac Diam3
  - AF1
  - AF2
  - AF3
  - AF4
  - LVIDd
  - LVIDs
  - LA Diam
  - LV Diam
  - RVIDd
  - RVIDs
  - RA Diam
  - RV Diam
  - IVSd
  - IVSs
  - IVS
  - LA Area
  - LV Area
  - RV Area
  - RA Area
  - Ao Diam
  - MPA Diam
  - LVOT Diam
  - LVOT Diam
  - Facial Angle

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Full Digital Color Doppler Ultrasonic Diagnostic System

- HrtA
- MV Diam
- PV Diam
- Ao Asc Diam
- Ao Desc Diam
- Duct Art. Diam
- TV Diam
- LPA Diam
- RPA Diam
- IVC Diam
- AV Diam
- UT L
- UT H
- UT W
- Endo
- Mean Sac Diam
- AFI
- EFW
- EFW2
- HC/AC
- FL/AC
- FL/BPD
- AXT
- CI
- FL/HC
- HC(C)
- Hrtc/TC
- TCD/AC
- LVW/HW
- LVD/RVD
- LAD/RAD
- AoD/MPAD
- LAD/AoD

● Emergency

- Liver
- Renal L
- Renal H
- Renal W
- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- CBD
- Portal V Diam
- CHD
- GB L
- GB H
- GB wall th
- Aorta Diam
- Aorta Bif
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- GS
- YS
- CRL
- UT L
- UT H
- UT W
- Endo
- Ovary L
- Ovary H
- Ovary W
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol
- Ovary Vol

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Full Digital Color Doppler Ultrasonic Diagnostic System

- UT Vol
- UT SUM

- **Cardiology**
  - Ao Diam(2D)
  - Ao Arch Diam(2D)
  - Ao Asc Diam(2D)
  - Ao Desc Diam(2D)
  - Ao Isthmus(2D)
  - Ao st junct(2D)
  - Ao Sinus Diam(2D)
  - AVA
  - ASD Diam
  - ACS(2D)
  - AV Diam
  - Duct Art Diam
  - HR(Cube 2D)
  - HR(Gibson 2D)
  - HR(Teich 2D)
  - IVC Diam(Expir)
  - IVC Diam(Insp)
  - IVSd(2D)
  - IVSs(2D)
  - LA Area
  - LA Diam(2D)
  - LA Major
  - LA Minor
  - LCA Diam
  - LPA Diam(2D)
  - LV Area(d)
  - LV Area(s)
  - Diastole(Cube2D)
  - Diastole(Gibson2D)
  - Diastole(Teich2D)
  - LV Major
  - LV Minor
  - Systole(Cube 2D)
  - Systole(Gibson2D)
  - Systole(Teich2D)
  - LVIDd(2d)
  - LVIDd(Cube 2D)
  - LVIDd(Gibson2D)
  - LVIDd(Teich2D)
  - LVIDs(2d)
  - LVIDs(Cube 2D)
  - LVIDs(Gibson2D)
  - LVIDs(Teich2D)
  - LVOT Diam
  - RVOT Diam
  - LVPWd(2D)
  - LVPWs(2D)
  - MCS(2D)
  - MPA Diam(2D)
  - MVA
  - MV Diam
  - MV EPSS(2D)
  - PDA Diam
  - PEd(2D)
  - PEs(2D)
  - PFO Diam
  - Pre Ductal
  - Post Ductal
  - PV Diam
  - RA Area
  - RA Major
  - RA Minor
  - RCA Diam
  - RPA Diam(2D)
  - RV Area(d)
  - RV Area(s)
  - RV Major
  - RV Minor
  - RVAWd(2D)

- RVAWs(2D)
- RVDd(2D)
- RVDs(2D)
- SVC Diam(Expir)
- SVC Diam(Insp)
- TV Diam
- TVA
- VSD Diam
- LVIDd(BP Ellipse)
- LVIDs(BP Ellipse)
- LVAd sax MV(BP Ellipse)
- LVAs sax MV(BP Ellipse)
- LVAd apical(BP Ellipse)
- LVAs apical(BP Ellipse)
- HR(BP Ellipse)
- LVAd sax MV(Bullet)
- LVAs sax MV(Bullet)
- LVLd apical(Bullet)
- LVLs apical(Bullet)
- HR(Bullet)
- LA Diam(LA Vol A-L)
- LAA(A2C)
- LAA(A4C)
- LA Vol (A2C)
- LA Vol(A4C)
- LVAd sax Epi(LV Mass A-L)
- LVAd sax Endo(LV Mass A-L)
- LVLd apical(LV Mass A-L)
- IVSd(LV Mass Cube-2D)
- LVIDd(LV Mass Cube-2D)
- LVPWd(LV Mass Cube-2D)
- LVAd sax Epi(LV Mass T-E)
- LVAd sax Endo(LV Mass T-E)
- a
- d
- RA Vol(A4C)
- LVLd apical (SP Ellipse)
- LVAd apical (SP Ellipse)
- LVLs apical (SP Ellipse)
- LVAs apical (SP Ellipse)
- HR (SP Ellipse)
- LVLd apical(Simp)
- LVLd apical(Simp)
- LVLs apical(Simp)
- LVAd sax MV(Simp)
- LVAs sax MV(Simp)
- LVAd sax PM(Simp)
- LVAs sax PM(Simp)
- HR(Mod Simp)
- EDV(Simp BP-A2C)
- ESV(Simp BP-A2C)
- EDV(Simp BP-A4C)
- ESV(Simp BP-A4C)
- HR(Simp BP)
- EDV(Simp SP-A2C)
- ESV(Simp SP-A2C)
- HR(Simp SP A2C)
- EDV(Simp SP-A4C)
- ESV(Simp SP-A4C)
- HR(Simp SP A4C)
- LA/AO(2D)
- AO/LA(2D)

5.2. M mode

- General
  - Distance(M)
  - HR(M)
  - Slope
  - Time(M)
  - Velocity
- Obstetrics
  - FHR
  - LVIDd(M)

- LVIDs(M)
- RVIDd(M)
- RVIDs(M)
- IVSd(M)
- IVSs(M)

- Emergency
  - FHR
- Cardiology
  - Ao Arch Diam(M)
  - Ao Asc Diam(M)
  - Ao Desc Diam(M)
  - Ao Diam(M)
  - Ao Isthmus(M)
  - Ao Sinus Diam(M)
  - Ao st junct(M)
  - ACS(M)
  - HR(Cube M)
  - HR(Gibson M)
  - HR(Teich M)
  - IVSd(M)
  - IVSs(M)
  - LA Diam(M)
  - LPA Diam(M)
  - Diastole(Cube M)
  - Diastole(Gibson M)
  - Diastole(Teich M)
  - Systole(Cube M)
  - Systole(Gibson M)
  - Systole(Teich M)
  - LVET(M)
  - LVIDd(Cube M)
  - LVIDd(Gibson M)
  - LVIDd(Teich M)
  - LVIDd(M)
  - LVIDs(M)
  - LVIDs(Cube M)
  - LVIDs(Gibson M)
  - LVIDs(Teich M)
  - LVPEP(M)
  - LVPWd(M)
  - LVPWs(M)
  - MCS(M)
  - MPA Diam(M)
  - MV A Amp
  - MV E Amp
  - MV D-E Slope
  - MV DE
  - MV E-F Slope
  - MV EPSS(M)
  - PEd(M)
  - PEs(M)
  - RPA Diam(M)
  - RVAWd(M)
  - RVAWs(M)
  - RVDd(M)
  - RVDs(M)
  - RVET(M)
  - RVPEP(M)
  - TAPSE
  - IVSd(LV Mass Cube-M)
  - LVIDd(LV Mass Cube-M)
  - LVPWd(LV Mass Cube-M)
  - MV C-O dur
  - LVET(LV Tei Index-M)
  - LA/AO(M)
  - AO/LA(M)

5.3. Doppler

- General
  - PS/ED
  - Vel
  - HR(Doppler)
  - Time(Doppler)

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Full Digital Color Doppler Ultrasonic Diagnostic System

- Acceleration
- D Trace
- Ratio(Vel)
- Ratio(VTI)
- Vol Flow
  - →Vas Area
  - →TAMEAN
  - →TAMAX

- Abdomen
  - Ren A Org
  - Arcuate A
  - Segment A
  - Interlobar A
  - Renal A
  - M Renal A
  - Renal V
  - Aorta
  - Celiac Axis
  - SMA
  - C Hepatic A
  - Splenic A
  - IVC
  - Portal V
  - M Portal V
  - Hepatic V
  - Lt Hepatic V
  - Rt Hepatic V
  - M Hepatic V
  - Splenic V
  - SMV
  - RAR
  - SMA/AO
  - CA/AO
- Vascular
  - CCA
  - Bulb
  - ICA
  - ECA
  - Vert A
  - InnomA
  - SubclavA
  - Axill A
  - Brachial A
  - Ulnar A
  - Radial A
  - SubclavV
  - Axill V
  - Cephalic V
  - Basilic V
  - Ulnar V
  - Radial V
  - C. IliacA
  - CFA
  - SFA
  - PopA
  - TP Trunk A
  - Peroneal A
  - P. TibA
  - A. TibA
  - Dors.PedA
  - C. Iliac V
  - Ex. Iliac V
  - Femoral V
  - SaphV
  - PopV
  - TP Trunk V
  - Sural V
  - Soleal V
  - Peronea V
  - P. TibV
  - A. TibV
  - ACA

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Full Digital Color Doppler Ultrasonic Diagnostic System

- MCA
- PCA
- AComA
- PComA
- BA
- IIA
- DFA
- Ba V
- Brachial V
- IIV
- CFV
- SFV
- DFV
- SSV
- ASP
- BSP
- ICA/CCA(PS)

- **Urology**
  - Testis A
  - Testis V
  - Epididymis A
  - Epididymis A
- **SmallParts**
  - STA
  - ITA
- **Obstetrics**
  - Umb A
  - Duct Veno
  - Placenta A
  - MCA
  - Fetal Ao
  - Desc Aorta
  - Ut A
  - Ovarian A
  - FHR(Doppler)
  - Asc Aorta
  - RVOT
  - LVOT
- **Emergency**
  - FHR
- **Cardiology**
  - MV Aa(lateral)
  - MV Aa(medial)
  - AAo Vmax
  - AV VTI
  - AV Vmax
  - AR DecT
  - AR PHT
  - AR Ved
  - AR Vmax
  - AR VTI
  - MV ARa(lateral)
  - MV ARa(medial)
  - ASD Vmax
  - AV AccT
  - AV DccT
  - Coarc pre-Duct
  - Coarc post-Duct
  - DAo Vmax
  - MV DRa(lateral)
  - MV DRa(medial)
  - MV Ea(lateral)
  - MV Ea(medial)
  - HR(D)
  - IVC Vel(Expir)
  - IVC Vel(Insp)
  - IVCT
  - LPA Vmax
  - LVET(D)
  - LVOT AccT
  - LVOT VTI
  - LVOT Vmax

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Full Digital Color Doppler Ultrasonic Diagnostic System

- LVPEP(D)
- MPA Vmax
- dp/dt
- MR VTI
- MR Vmax
- MS Vmax
- MV A Dur
- MV A Vel
- MV VTI
- MV AccT
- MV DecT
- MV E Dur
- MV E Vel
- MV E VTI
- IVRT
- MV VTI
- MV Vmax
- PVein A Dur
- PVein A Vel
- PVein D Vel
- PVein D VTI
- PVein DecT
- PVein S Vel
- PVein S VTI
- PDA Vel(d)
- PDA Vel(s)
- PR PHT
- PR VTI
- PR Ved
- PR Vmax
- PV AccT
- PV VTI
- PV Vmax
- RAP
- RAP Vmax
- RVET(D)
- RVOT Vmax
- RVOT VTI
- RVPEP(D)
- MV Sa(lateral)
- MV Sa(medial)
- SVC Vel(Expir)
- SVC Vel(Insp)
- TR VTI
- TR Vmax
- TV A Dur
- TVA Dur
- TV A Vel
- TV AccT
- TV DecT
- TV E Vel
- TV VTI
- TV Vmax
- VSD Vmax
- Hepatic V S Vel
- Hepatic V D Vel
- MV HR
- TV HR
- AV HR
- PV HR
- MV C-O dur(D)
- LVET(LV Tei Index-Doppler)
- AR Rad
- AR Als Vel
- MR Rad
- MR Als Vel
- PR Rad
- PR Als Vel
- TR Rad
- TR Als Vel
- TV C-O dur
- RVET(RV Tei Index)

- MV E/A
- MVA(PHT)
- TV E/A
- TVA(PHT)

6. System setup

6.1. System Preset

- Region

- HospitalInfo: HospitalName, Address, Telphone, Fax, Hospital icon
- Language&Time:
  → Languages: English, Chinese,French, Russian, Spanish
  →TimeZone
  →DateTime
  →DateFormat: yyyy-MM-dd, MM-dd-yyyy dd-MM-yyyy
  →TimeFormat: 24Hours, 12Hours

- General

- Patient information
  →The patient's Information Bar: Patient ID, Name, Gender,Age,Handles Hospital, Birthday
  →Height and Weight unit: Metric system, british system
  →Body standard area formula: East, West
- Check Settings
  →Enter at the end of inspection: Scan, New Patient
  →Send after checking
- System Sleep
  →Screensaver: Waiting 1,10,30,60 min
  →Open Sleep: Waiting 1,10,30,60 min

- Image

- ImageSave
  →SaveSize:ImageArea, StandardArea
  →VideoOutput: PAL, NTSC
  MovieStorageLength(s): Adjustable
  CardiacCycle: 1~16
- Set Default
  →Probe:TC50,TC50-B,TL40,TL40-B, TP16,TC10,TC10-B,TC20,TE64,TC15
- ImageSetting
  →TI Style: TIB, TIC, TIS
  →FrozenState:Replay,Measure, Caliper
  →Deflection: C&PW, C/PW, AutoTurnOver, WidthViewRule

- Apply

- SurveyingRod
  → Cursortype: Number, Symble
  →CursorSize:Large,Medium,Small
  →Color(enabled): Green, Yellow, Red, White
  →Color(Unenabled):Green, Yellow, Red, White
  →ResultSize:Large, Medium, Small
  →Cardiaccycle: 1~8
  →Delete the measurement results when you delete the caliper
- Comment
  →FontSize:Large, Medium, Small
  →ArrowSize:Large, Medium, Small
  →Automatically clear comment when unfreeze the image or switch the probe or exam mode.
  →Automatically clear the body mark when unfreeze the image.
- Follicle
  →Computational method: Signal, Double, Three

- OB

- FetusAge

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Full Digital Color Doppler Ultrasonic Diagnostic System

- Mean Sac Diam →Daya, Hellman
- OOD→ Jeanty
- TCD→Hill, Nicolaides
- CLAV→Varkoni
- Tibia→ Jeanty
- Ulna→ Jeanty
- HUM→ Jeanty,ASUM
- THD→Hansmann
- FTA→Osaka
- TAD→CFEF
- OFD→Hansmann, Nicolaides, ASUM
- FL→Hadlock,Tokyo,Merz,Hansmann, Warda, Chitty, Osaka, Nicolaides, ASUM, Jeanty, Hohler, China
- AC→Hadlock,Jeanty,Merz,ChittyPL, ASUM,CFEF,Hansman
- HC→Hadlock,Jeanty,Hansmann,ChittyPL, Chitty_Derived,Nicolaides,ASUM
- BPD→Hadlock,Tokyo,Jeanty,Kurtz, Hansmann,Merz, Rempen,ChittyOI, Osaka, China, Nicolaides,ASUM
- CRL→Hadlock, Tokyo, Robinson,Rempen, Hansmann,ASUM, Jeanty, Nelson, China, Robinson,BMUS
- GS→Rempen, Tokyo, Hansmann, China
- EFW2→Hadlock, Tokyo
- FEW→Hadlock, Tokyo
- Windows of measurement result:
  →Expected date of birth
  →Display GA in report

- Fetal Weight

- FetalWeight1
  →Hadlock(AC,FL)
  →Hadlock(AC,FL,BPD)
  →Hadlock(AC,FL,HC)
  →Hadlock(AC,FL,HC,BPD)
  →Shepard
  →Merz1
  →Merz2
  →Hansmann(BPD,THD)
  →Tokyo
  →Osaka(FL,BPD,FTA)
  →Campbell
- FetalWeight2
  →Hadlock(AC,FL)
  →Hadlock(AC,FL,BPD)
  →Hadlock(AC,FL,HC)
  →Hadlock(AC,FL,HC,BPD)
  →Shepard
  →Merz1
  →Merz2
  →Hansmann(BPD,THD)
  →Tokyo
  →Osaka(FL,BPD,FTA)
  →Campbell
- WeightUnit: METRIC, IMPERIAL, METRIC/IMPERIAL

- Percent of fetal weight

- Formula:NULL, Hadlock, Brenner, William
- Type:AUA/CUA, LMP&AUA/CUA,LMP

- Fetal development curve

- FL/HC→Hadlock
- HC/AC→Champbell
- AFI→Moore
- UmbARI→JSUM
- UmbAPI

- MCARI→JSUM
- MCAPI
- CM→Nicolaides
- TCD→Hill, Goldstein, Nicolaides
- CLAV→Varkoni
- FIB→Merz,Jeanty
- RAD→Merz,Jeanty
- Tibia→Merz,Jeanty
- Ulna→Merz,Jeanty
- HUM→ ASUM,Jeanty,Merz
- THD→Hansmann
- FTA→Osaka
- TAD→Merz,CFEF
- APAD→Merz
- OFD→Hansmann,Merz, Nicolaides, ASUM,Jeanty
- FL→Hadlock,Tokyo,Merz,Hansmann, O_Brien, Warda, Chitty, Jeanty, Osaka, Nicolaides,ASUM, CFEF
- AC→Hadlock,Jeanty,Merz,Chitty,Nicolaides, ASUM,CFEF,Hansman
- HC→Hadlock,Merz, Hansmann,Jeanty, CFEF,ChittyPL, Chitty_Derived, Nicolaides,ASUM
- BPD→Hadlock,Tokyo,Jeanty,Kurtz, Sabbagha,Hansmann,Merz, Rempen,ChittyOI, Osaka, Nicolaides,ASUM,CFEF
- CRL→Hadlock, Tokyo, Robinson,Rempen, Hansmann,ASUM
- GS→Rempen, Tokyo, Hansmann,Hellman
- EFW2→Hadlock, Hansmann,Tokyo, Brenner William
- FEW→Hadlock, Hansmann, Tokyo, Brenner William
- Tendency chart: 1*1, 1*2, 2*2

- Trackball Sensitivity:Slow, Middle, Fast

- Authority

- Start using authority: On/Off
  - Username, password, Add, Delete, Change Password

6.2. Exam Preset

- Available on All probes
- Add New Applications
- Delete Applications
- Set up Default Clinical App of boot

6.3. Measure Preset

- Measure
  - MeasureItem adding, moving
  - 2D, M, Doppler
- Caliper
  - MeasureItem adding, moving
  - 2D, M, Doppler
- Report
  - Preset Report Template Name

6.4. Web Preset

- Local TCP/IP

-Wired NetWork
  - DHCP, Static
    IP Address, Subnet Mask, GateWay

-Wireless NetWork
  - ON/OFF, Autoconnect

- DICOM Local

-Localhost Dicom Service Property
  - AE Title, Port, PDU

- Serve Setting
  - Device, IP

- Device list
  - Device, IP

- Set Dicom Service , Delete

- DICOM Service

- Storage
- Print
- Worklist
- MPPS
- Rage Commitm Qurey/retrive

6.5. Print Preset

- Print Service
  - Add Service
  - Delete Service
  - Rename Service
  - Add Printer
  - Set Default Service
- Printer Proper
- Image Setting

6.6. About& Maintenance

- SystemInfo
- Match
- Other

7. Probe Parameters

- Convex probe 3C5PD
  - Applications: ABD, OB, GYN,PedABD,Urology
  - Number of Elements: 80,128
  - Harmonics frequency: 1.7, 2.0, 2.5, 3.2MHz
  - Basic frequency: 2.5, 3.5, 6.0MHz
  - Depth range: 40~420mm
- Linear array probe 7L4PD
  - Applications: Carotid, Thyroid, Nerve, Superficial, MSK, PedABD, Orthopedic, Vascular
  - Number of Elements: 80,128
  - Harmonics frequency: 4.0, 4.7, 5.3, 6.1MHz
  - Basic frequency: 5.0, 7.5, 12.0MHz
  - Depth range: 20~280mm
- Trans-vaginal probe 6E1PD
  - Applications: OB/GYN, Prostate
  - Number of Elements: 128
  - Harmonics frequency: 3.2, 3.6, 4.0, 5.0MHz
  - Basic frequency: 5.0, 6.5, 10.0MHz
  - Depth range: 20~280mm
- Phased array probe 3P2PA
  - Applications: Adult Cardiac, Ped Cardiac, TCI
  - Number of Elements: 64
  - Harmonics frequency: 1.5, 2.0, 2.5, 3.0MHz
  - Basic frequency: 2.0, 3.0, 5.0MHz
  - Depth range: 30~320mm
- Micro-convex Probe 6C1PD
  - Applications: Ped ABD, Ped Cardiac, TCI
  - Number of Elements: 128
  - Harmonics frequency: 3.6, 4.0, 5.0MHz
  - Basic frequency: 5.0, 6.5, 8.0MHz
  - Depth range: 20~280mm

8. System Inputs & Outputs

- USB(2) :

- Connect to devices that abide by the USB protocol

- Video:

- Output video signals,used to connect video printers, ultrasound workstation, ect;

- VGA Port:

- Output video signals, used to connect monitor

- Ethernet Port:

- Network ports ,used to connect the network or other DICOM protocol equipment;

- Equipotential:

- Balance the protective grounded potential;

- DC IN:

- DC-19V

- **Power Switch:**

- Turn on/off the system power

9. Standard Package

- **Main Unit**
- **Probes choose from the probe list**

  (price changes according the choosed probes)
- **Power cord/grounding cable**
- **Fuse (2)**
- **User's Manual**
- **Coupling Gel (0.25L)**

10. Optional Accessories

- **Probes**
- **Lithium battery**
- **Pedal Switch**
- **DICOM 3.0**
- **Suitcase**
- **Trolley**
- **Print module**
- **Thermal Printer**
- **Laser Printer**
- **Biopsy**

11. Certificates

- **Quality Standards**
- **ISO9001**
- **ISO13485**

◆ **NOTICE:**

Not all features or specifications described in this document may be available in all probes and all modes.

BAWERS reserves the right to make changes in specifications and features shown herein.

BAWERS
MEDICAL EQUIPMENT

















BW-100

Ultrasound Scanner

- Full digital imaging technology
- Crystal-clear Image
- Computer platforms, Abundant functions
- Powerful image and report management
- 3D Image Function(optional)
- DICOM display and transfer
- Large Storage volume
- Compatible with USB laser/inkjet printers
- Pretty and new appearance
- 15 inch touch screen color LCD monitor
- Silica gel backlight waterproof keyboard
- Can work with external battery(option)
- 2 probe connector
- Multiple language:

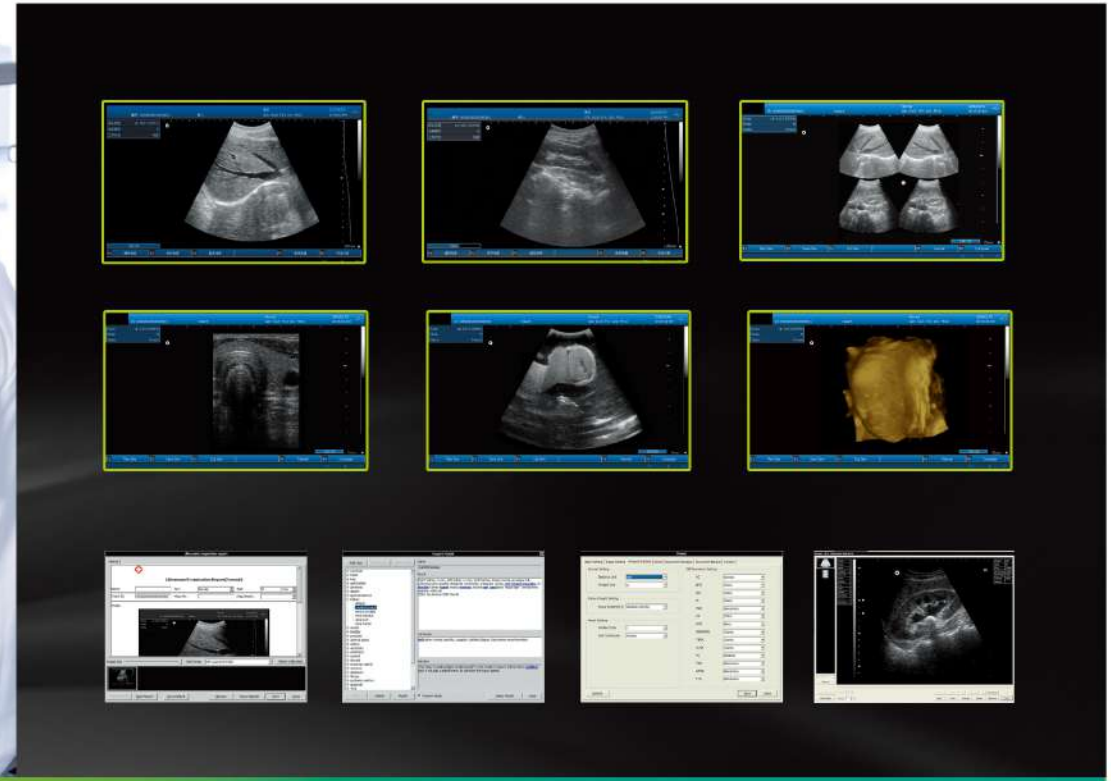
English, French, German, Spanish,
Russian, Italian, Portuguese, etc.

Touch screen!

CE











Ultrasound Keyboard

Standard Configuration:

- Host 1 unit
- Convex probe 1 pcs
- Ultrasound keyboard 1 pcs
- Computer keyboard 1 pcs
- Computer mouse 1 pcs

Optional:

- Linear, Trans-vaginal, Micro-convex, Rectal probe
- Laser/ink printer
- Video Printer
- 3D imaging function
- Battery



Also can work with mouse

Specification:

-Maximum Scanning Depth: max. 250mm
-Cine Loop: max. 1024 frames
-Real-time Zoom on B mode
-Multi-frequency: 5 segment frequencies
-Scanning mode: B, 2B, B/M, M, 4B, 9B, ZOOM;
-Image gray scale: 256 level gray scale
-Image processing: Pre-processing, after-processing, dynamic range, frame rate, line average, edge; enhancement, Black/White inversion; Gray scale adjustment, contrast, brightness, γ revision.
-Gain: 0-100dB; Time gain control(TGC): 8 segment adjustment, B, M adjustment separately.
-Image store: by hardisk or USB disk, can save image and also video(avi or swf format)
-Measurement and calculation(human):
B mode: distance, circumstance, area, volume, angle, ratio, stenosis, profile, histogram;
M mode: heart rate, time, distance, slope and stenosis;
Gynecology measurement: Uterus, cervix, endometrium, L/R ovary;
Obstetric: gestation age, fetal weight, AFI;
Cardiology: LV, LV function, LVPW, RVAWT;
Urology: transition zone volume, bladder volume, RUV, prostate, kidney;
Small parts: optic, thyroid, jaw and face.
Veterinary: Cattle: BPD, CRL, TD; Horse: GA; Dog: GS; Cat: HD, BD; Sheep: BPD, CRL, TD
-Supported output apparatus: U-Disk, Laser/ink printer, video printer, VGA
-Zoom: 10 ratio, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0
-3D image function: can get rebuilt 3D image by any probe
-Monitor: 15 inch touch screen color LCD screen
-Dimension: 120cm(height)×55cm (width) ×60cm(length)
-Weight: Around 30kg
-Probe Connector 2



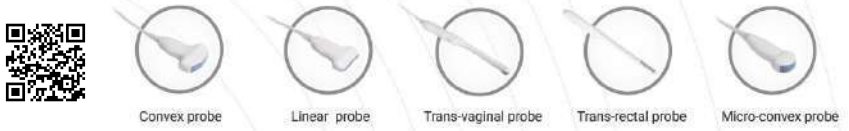


TROLLEY BLACK AND WHITE ULTRASOUND DIAGNOSTIC SYSTEM
(OPTIONAL: 5200 MAH BUILT-IN BATTERY)

This device model full digital ultrasound diagnostic instrument is a new trolley type black and white ultrasound;it adopts the new ARM architecture, compared with the traditional monolithic system: faster-processing speed, stronger processing capacity, larger storage capacity, higher safety performance, more convenient upgrade, and maintenance, etc., which effectively brings great convenience to users.

PRODUCT FEATURES

- Puncture guidance function
- Tissue harmonics
- Display modes: B, B+B, B+M, M, 4B
- Various image processing functions such as line correlation and pseudo-color
- Movie playback function ≥256 frames
- Image storage ≥ 300, external USB storage
- With probe application preset function
- With obstetric ethnographic settings.
- With automatic image freezing, screensaver settings
- A wide range of specialist measurement data packages
- With automatic parameter saving and one-key parameter restoration function







BAWERS
MEDICAL EQUIPMENT

BWC-310 Series Diagnostic Ultrasound System



Datasheet

Product Description

The remarkable C60 series Compact Ultrasound System delivers a powerhouse combination of features to meet the demands of clinic medical imaging applications. C60 fulfills Abdomen, OB/GYN, Cardiac and vessels etc applications to fit your routine scanning needs while its color mode will help you for more accurate and efficient diagnosis of lesions. Embedded win7 operating system empowers smooth system operation and fast system response.

Advanced Technique and Features

- ☑ Tissue Adaptive Imaging
- ☑ Frequency Compounding Imaging
- ☑ Inverse Tissue Harmonic Imaging
- ☑ Digital Multi-Beam forming
- ☑ Adaptive Doppler imaging
- ☑ Language：Chinese, English, Russian, Spanish,Portuguese, French.
- ☑ SRI-Adaptive Speckle Reduction Imaging
- ☑ Adaptive Spatial Compounding Imaging
- ☑ Auto Optimization Imaging
- ☑ Trapezoid Imaging
- ☑ Spectrum Enhancement
- ☑ Auto Doppler trace

System Overview

System Architecture

- ☑ Dual active transducer ports
- ☑ Beam Forming Quad beam
- ☑ Hard Drive 256G SSD
- ☑ Physical Channels 64
- ☑ Processor Memory 4GB
- ☑ Operating System Win7

Dimensions and Weight

- ☑ Dimension 470 mm×335 mm×560mm
- ☑ Net Weight (No battery) 6.6kg

Monitor

- ☑ 15’high resolution LCD monitor
- ☑ Magnetic latch closure
- ☑ Image Size: 1024*780
- ☑ Built-in stereo speaker

I/O Ports

- ☑ VGA
- ☑ HDMI
- ☑ USB 2.0(two)
- ☑ DICOM

Battery

- ☑ Rechargeable 4000mAh capacity
- ☑ Battery indicator on the right of console
- ☑ Battery fully charged in about 2 hours.
- ☑ Battery level icon displayed on the main screen.

AC Power Requirements

- ☑ Voltage 100 -240 V~
- ☑ Frequency 50 Hz/60 Hz

Options

- ☑ Transducers
- ☑ 3Dsoftware
- ☑ Printers
- ☑ Simple Trolley
- ☑ Needle Guide Bracket Kits
- ☑ 4D hardware and software
- ☑ Battery

*Feature is subject to regulatory approval, and may not be available for sale in specific countries.

Imaging

Imaging Modes

☑ B-mode
☑ dual- B mode
☑ 4B mode
☑ M-mode
☑ Color Doppler
☑ PDI
☑ PW Doppler
☑ CW Doppler
☑ Display Modes
☑ Available for B and Color(PDI) mode.
☑ Allows to switch between two images
☑ Displays two image side-by-side, two frozen or one active/one frozen.

Imaging Mode Combinations

☑ B+M
☑ B/C(PDI), Single
☑ B/C(PDI or DPDI), Dual
☑ B+B/C(PDI), Dual live
☑ B+PW (Duplex)
☑ B+PW (Update)
☑ B/C(PDI)+PW (Triplex)
☑ B+CW (Update)
☑ B/C(PDI)+CW (Update)Control Panel

User Interface

☑ Interactive back-lighting
☑ User-defined keys
☑ 6 shortcut menu knobs
☑ 8 Stage TGC sliders
☑ Standard keyboard for text input
☑ Brightness and contrast adjustable

Main Screen Display

Information Field

- Brand logo
- Hospital name
- Date
- Time
- Patient ID
- Patient Name
- Patient Gender
- Patient Age
- Transducer model
- Body parts icon
- application

Image Field

- Imaging parameters
- Gray Scale bar
- Depth Scale
- Measured result window
- TGC curve
- Mechanical Index (MI)
- Thermal Index (TI)

Editable Report

- Measurement and calculation results import
- Printer adjustable
- Measurement and calculation results for multiple fetus.
- Picture size adjustable

Thumbnail Field

- All captured static images and cine clips
- Shortcut keys for selecting, viewing, deleting,exporting images.

User status Field

- Cine bar
- Exit icon for exiting Raw Data review status.
- Image Storage state
- Real time power dynamic display
- Battery Icon

*Feature is subject to regulatory approval, and may not be available for sale in specific countries.

Transducers Application and Biopsy Guide

Transducer		Applications	Transducer		Applications
R60 Convex 3.5M		Abdomen Fetal / Obstetrics Urology Gynecology Musculoskeletal	R10 Trans-vaginal 6.5M		Obstetrics Gynecology Urology
L40 Linear 7.5M		Small parts Peripheral Vascular Musculoskeletal	R20 Micro 3.5M		Small Parts Peripheral Vascular Musculoskeletal
Phased 3.0M		Adult Cardiac Abdomen Pediatric Cardiac Adult Cephalic	4D		abdomen Obstetrics
Phased 5.0M		Abdomen Pediatric Cardiac Adult Cephalic	R15 Micro 6.5M		Abdomen Small Parts Peripheral Vascular Musculoskeletal
L64 Rectal 6.0M		Trans-rectal Urology	R20 Micro 7.5M		Abdomen Small Parts Peripheral Vascular Musculoskeletal

Transducer Specifications

Transducer									
Transducer Type	Convex	Phased	Linear	Micro -convex	Endocavity	Micro -convex	Phased	4D	Micro -convex
Convex Radius	60mm		38mm	20mm	10mm	15mm		40mm	20mm
Elements	128	64	128	128	128	128	64	128	128
Bandwidth	2-6MHz	2-5MHz	5-12MHz	3-6MHz	5-10MHz	4-8MHz	3-7MHz	2-5MHz	5-10MHz
FOV	60°	90°		100°	150°	89°	90°	68°	109°
Display Depth									
Biopsy Guide	yes	No	yes	yes	yes	yes	No	yes	yes

*Feature is subject to regulatory approval, and may not be available for sale in specific countries.

Color Ultrasound Diagnostic System

- *15 inch full view medical HD display;*
- *Support convex/lieaner/transvaginal/micro-convex/4D probe ;*
- *Display model ： B/2B/4B/M/CFM/PDI/PW;*
- *Support color and PWthree synchronization;*
- *High-precision digital continuous beamformer;*
- *Dynamic frequency fusion imaging technology;*
- *High-precision delay point-by-point dynamic receiver focus;*
- *Precise SRI adaptive speckle noise suppression ;*
- *Adaptive image optimization processing technology;*
- *Built-in editable report;*
- *Automatic measurement of IMT;*
- *Built-in lithium battery;*
- *Rich external interfaces;*
- *Optional free arm 3D and 4D imaging ;*
- *Optional special trolly.*









BWHUC-500

Système de diagnostic ultrasonique Doppler couleur portable

Fiche de données



BWHUC-500

Système de diagnostic ultrasonique Doppler couleur portable

1. Vue d'ensemble du système

1.1 Applications cliniques

- Abdomen
- Obstétrique
- Gynécologie
- Urologie
- Cardiologie
- Pédiatrique
- Petites pièces
- Vaisseau sanguin
- Superficiel
- Orthopédique
- MSK
- Nerf
- Coutume

1.2 Types de transducteurs

- Transducteur convexe
- Transducteur à réseau linéaire
- Transducteur transvaginal
- Transducteur micro-convexe
- Transducteur à réseau phasé
- Transducteur de volume 4D

1.3 Modes d'imagerie

- Mode B
- B direction
- Mode 2B/4B
- Mode M

-Mode B/M

-CDFI - Mode

-Mode PDI

- Mode CM
- Mode PW
- Mode CW

-Mode M anatomique

- Panoramique
- Panorama couleur
- Trapézoïdal (transducteur linéaire)
- Imagerie étendue (Efov)
- Mode CW
- TDI (TVI, TVD, TVM, TEI)
- Mode 3D/4D

1.4 Fonctionnalités standard

- Mode B
- B direction
- Mode 2B/4B
- Mode M

-Mode B/M

-CDFI - Mode

-Mode PDI

- Mode CM
- Mode PW
- Mode CW

-Mode M anatomique

- Panoramique
- Panorama couleur
- Trapézoïdal (transducteur linéaire)
- Imagerie étendue (Efov)
- Imagerie spécifique des tissus (TSI)
- Imagerie harmonique tissulaire (THI)
- Imagerie par réduction du speckle (SRI)
- Imagerie composite spatiale (SCI)
- Imagerie composite de fréquence (FCI)
- Imagerie chromatique B/D
- Panoramique Zoom
- Zoom local
- Optimisation automatique

BHUC-500

Système de diagnostic ultrasonique Doppler couleur portable

- Rotation d'image
- Calcul automatique
- Auto IMT
- Gestion des archives
- Données brutes
- Grossesses multiples
- Flux RH
- fonction de biopsie
- Étiquette de vélocité
- HPRF
- Post-traitement d'images
- Prétraitement des images
- écran de 15,6 pouces
- Imagerie élastique
- TDI(TVI, TEI, TVM, TVD)
- 3D statique
- Module 4D
- Imprimante laser/thermique
- Pédale
- Ponction
- DICOM 3.0

1.5 Format de stockage

- Image : RAW, JPG/AVI, DCM, BMP/AVI, TIFF/AVI
- Rapport : PDF

2 Spécifications physiques

2.1 Dimensions et poids

- Largeur : environ 380 mm
- Hauteur : environ 361 mm
- Épaisseur : environ 131 mm
- Poids net : environ 6,3 kg (sans batterie)

2.2 Moniteur

-Écran couleur haute résolution de 15,6 pouces

- Résolution : 1920*1080
- Plage d'angle d'inclinaison 0-70° (U/D)

2.4 Ports et supports de transducteurs

- 3 ports de transducteur activés
- Supports de transducteurs amovibles

2.5 Puissance électrique

-Entrée adaptateur secteur

- Tension : 100-240 V~
- Fréquence : 50/60 Hz
- Tension de sortie : 19 V ± 1
- Courant électrique de sortie : 5,8 A

-Batterie au lithium

- Capacité de la batterie : 10000 mA
- Tension de sortie : 14,4 V

2.6 Environnement d'exploitation

- Température ambiante : 5°C~+40°C
- Humidité relative : 25 % à 85 %
- Pression atmosphérique : 70 kPa ~ 106 kPa

2.7 Environnement de stockage et de transport

- Température ambiante : -20°C~+55°C
- Humidité relative : 10 % à 95 %
- Pression atmosphérique : 50 kPa à 106 kPa

2.8. Corps principal

- Disque dur de 500 Go
- Système d'exploitation -- Linux

3 Interface utilisateur

3.1 Informations de surveillance

- Informations générales :
  - Logo
  - Nom de l'hôpital
  - Paramètres d'affichage
  - Date et heure du système
  - Application clinique

BWHUC-500

Système de diagnostic ultrasonique Doppler couleur portable

- **Type de transducteur**
- **Mode examen**
- **Nom, âge et sexe du patient**
- **Marque du transducteur**
- **Position de focalisation**
- **Échelle parallèle et échelle verticale**
- **Marque de gel**
- **Courbe TGC**
- **Puissance acoustique**
- **Histogramme des volumes**
- **Barre grise/Barre de couleur**
- **Icône de la corbeille**

3.3 Panneau de commande

- **Marche/Arrêt**
- **Boutons du mode d'imagerie**
  - **B, C, PW, M, Quad, 3D/4D, PDI, CW, TDI, ECG, Biopsie**
- **Touches de raccourci des paramètres**
  - **Profondeur**
  - **Position de focalisation**
  - **Angle/direction**
  - **Auto**
  - **Zoom**
  - **Gagner**
- **Touche de programmation définie par l'utilisateur**

- Q1, Q2, Q3, Q4, Enregistrer 1, Enregistrer 2, Imprimer

- **Bouton de gel**
- **Fonction**
  - **Mesure**
  - **Pied à coulisse**
  - **Double**
  - **Quad**
  - **Mise à jour**
  - **Texte**
  - **Marque corporelle**
  - **Flèche**
  - **Curseur**
  - **Faire le ménage**
  - **Imprimer**
  - **Transducteur**
  - **Patient**
  - **Rapport**
  - **Revoir**
  - **Examen de fin**
  - **Aide**
  - **Gare**
  - **Installation**
  - **QSave**
- **Contrôle TGC à 8 segments**
- **Trackball**
- **Clavier**

3.4 Démarrage du système

- **Démarrage dans les années 90 environ**
- **Arrêt dans environ 5 secondes**
- **Durée de veille : 1, 10, 30, 60 min**
- **Écran de veille : 1, 10, 30, 60 min**

3.5 Commentaires et flèche

- **Position de la flèche réglable**
- **Taille de flèche ajustable**
- **Direction de flèche réglable**
- **Position des commentaires réglable**
- **Taille de police des commentaires ajustable**
- **Ajout et suppression définis par l'utilisateur**

3.6 Marques sur la carrosserie

- **Plus de 200 marques corporelles**
- **Ajout et suppression définis par l'utilisateur**

-Faites glisser pour changer la position

4 Paramètres d'imagerie

4.1 Mode B

- Format d'affichage : B (simple), 2B (double),
  4B (Quad)
- Marche arrière U/D : Activé, Désactivé
- Marche arrière gauche/droite : Activé, Désactivé
- Double Live
- Profondeur : Dépend du transducteur utilisé
- Fréquence : Dépend des différents transducteurs
- THI :
  →Imagerie harmonique tissulaire
  →Disponible sur tous les transducteurs
- B steer :
  →Pour transducteur linéaire
  →4 marches réglables à gauche
  →Réglable en 4 étapes
- Gain : 0~100
- Zoom panoramique : Z0.8, Z0.9, Z1.0, Z1.1, Z1.2, Z1.4, Z1.6, Z1.8, Z2.0，Z3.0，Z4.0，Z5.0, Z6.0, Z7.0, Z8.0, Z9.0, Z10.0
- Règle horizontale : Masquer/Afficher
- Ligne centrale : Transducteur convexe
- Qualité d'image : Stylo, Génération, Résolution,
  HPen, HPen-Gen, HGen, HRes
- Dyn Ra (plage dynamique) : 30-180, 5/pas
- ZClear : 0 à 6, par incréments
- Persistance : 0 à 6, 1/étape
- Carte grise : 1 à 10, 1/étape
- Chrome : 0 à 8, 1/étape
- A.Puissance : 1 à 20, par étape
- Rotation : 0°,90°,180°,270°
- Nombre de points de concentration : jusqu'à 8
- FCI (Imagerie composite de fréquence) :
  →0 ou 1
- TSI : Général, Muscle, Graisse, Liquide

Champ de vision : 1 à 8, par incréments de 1

- SCI (Imagerie composite spatiale)) :
  0 à 7, 1/étape
- Densité de lignes : L, H
- EFOV :
  →0, 1, 2 Réglable
  →Champ de vision étendu disponible sur Convex,
  Linéaire, transvaginal, volume 4D

- Mode M
- Format d'affichage
  →V2:3, V3:2, V3:1, H2:3, Plein écran
- Dyn Ra. : 30~180, 5/pas
- Carte grise : 1 à 10, 1/étape
- Vitesse : 1 à 6, réglable sur 6 niveaux
- Chrome : 0 à 8, 1/étape
- Sauvegarder (Geler)
- Réinitialiser (Geler)
- Passer en première position (gel)
- Aller au dernier (gel)
- Vitesse de lecture (gel)
- Heure de début (gel)
- Heure de fin (gel)

- Mode C
- Position ROI : trackball
- Taille du ROI : trackball et clé de réglage
- ROI Steer : Transducteur linéaire
  →4 marches réglables à gauche
  →Réglable en 4 étapes
- Double alimentation : B/C, B/PDI, B/DPDI

BWHUC-500

Système de diagnostic ultrasonique Doppler couleur portable

- Quad : Couleur 4B
- Qualité d'image : Stylo, Général, Résolution
- Filtre mural : 0 à 7, par palier.
- Sensibilité : 1 à 4, par incréments
- Persistance : 0 à 5, 1/étape
- Lissage : 0 à 5, 1/étape
- Densité de lignes : L, H
- État du flux : LMH
- Flux RH
- Priorité : 0 à 100, 1/étape
- Inverser
- Étiquette de vélocité : activée, désactivée
- Alignement B/C
- Masquage des couleurs : Activé, Désactivé
- Palette de couleurs : V0 à VV9, 20 étapes
- PRF : 0,2~7,9 kHz

- Mode PW
  - Qualité d'image : Stylo, Général, Résolution
  - Filtre mural : 0 à 7, par palier.
  - Inverser : Marche, Arrêt
  - Angle rapide : 0°, +60°, -60°
  - Vitesse : 1 à 6, 1/pas
  - Cycle de calcul automatique : 1, 2, 3
  - Inversion automatique : activée, désactivée
  - Zone de traçage : Au-dessus, En dessous, Tout
  - SV : 0,5 à 40 mm, par incréments de 0,5 mm
  - HPRF : MARCHE/ARRÊT
  - Volume : 0-100, par incréments de 1
  - Rayon dynamique : 24~72, 2/pas
  - Multi-synchronisation : ON/OFF
  - Paramètre de calcul automatique
    - →AT, D/S, DT, ED, Débit (TAMAX), VTI, Débit (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN
    - →Sélection définie par l'utilisateur
  - Chrome : 0 à 8, 1/étape
  - Carte grise : 1 à 10, 1/étape
  - Résolution Vrai/Faux : 1 à 5, par incréments de 1
  - Format d'affichage:
    - →V2:3, V3:2, V3:1, H2:3, Plein écran
  - PRF : 0,5 kHz à 12,0 kHz
  - Cycle de calcul automatique : 1, 2, 3 Réglable
  - Sauvegarder (Geler)
  - Réinitialiser (Geler)
  - Passer en première position (gel)
  - Aller au dernier (gel)
  - Vitesse de lecture (gel)
  - Sélectionnez Démarrer (Figer)
  - Sélectionner Fin (Geler)

- Mode CW
  - Qualité d'image : Gen
  - Dyn Ra. : 24-72, 2/pas
  - PRF : 0,5 kHz à 120,0 kHz
  - Vitesse : 1-6
  - Angle : -80° à 80°, par incréments de 1°.
  - Carte grise : 1-10
  - Filtre mural : 0-7, 1/étape
  - Chroma : 0-8
  - Résolution Vrai/Faux : 1 à 5, par incréments de 1
  - Inverser : Marche/Arrêt
  - Volume : 0-100, par incréments de 1
  - Format d'affichage : Plein écran, V2:3, V3:2, V3:1, H2:3
  - ligne de base : 17 étapes
  - Auto Spectre
    - Calcul automatique : activé/désactivé
    - Paramètre de calcul automatique :
      - →Résultats du calcul automatique du spectre

AT, D/S, DT, ED, Débit (MAX), VTI, Débit (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

→Sélection définie par l'utilisateur

-Statique 3D et 4D

- Préparer les paramètres

→Autoface : Activé, Désactivé

→Garniture utilisée

→Angle : 10°~70°, 5°/étape

→Qualité : Très faible, Faible, Moyenne Haut, le plus haut

→Angle : 10°~70°, 5°/étape

→Mode de rendu : Surface, Profondeur, Max, Min, Radiographie, ZLive, Silhouette

- Mettre à jour les paramètres

→Format d'affichage : Simple, Double, Quadruple, Quadrant gauche

→Mode de rendu : Surface, Profondeur, Max, Min, Radiographie, ZLive, Silhouette

→Orientation : 0°,90°,180°,270°

→RotateX : Réglable

→RotationY : Réglable

→RotationZ : Réglable

→Seuil : 1-100, 1/étape

→Opacité : 0 à 100, par incréments de 5

→Contraste : 0 à 100, par incréments de 1

→Luminosité : 0 à 100, par incréments de 1.

→Lissage : 0 à 12, par incréments

→Section de référence : A, B, C

→Statut VR : VR, MPR, MPR

→Réinitialiser Ori

→Réinitialiser tout

→Synchronisation

→Chrome : 0 à 8, 1/étape

→Amélioration de l'image : 0~10

→Movelight

→Réinitialiser le trim

→Inverser

→Sens de vision : HAUT/BAS, BAS/HAUT, Gauche/Droite, Droite/Gauche, Avant/Arrière, Arrière/Avant

→Vue inversée

→Carte grise

- Paramètres de modification d'image

→Mode d'édition : Encadrer, Délimiter, Contour, Contour extérieur, polygone intérieur, polygone extérieur

→Défaire

→Annuler tout

→Profondeur de coupe : 0-100

- Zpage

→Format d'affichage : 2×2, 3×3, 4×4, 5×5

→Distance : 0,1 à 20, par incréments de 0,1.

→Section de référence : A, B, C

→RotateX : Réglable

→RotationY : Réglable

→RotationZ : Réglable

→Tranches entières

→Position de la tranche : -7 à 8, 1/étape

→Orientation : Horizontale, Verticale

- Paramètres de mise en page

→Format d'affichage : Simple, Quadruple

→3D_Niche Director : Avant Arrière, Arrière Devant

→Section de référence : A/B/C/Niche

→Réinitialiser Ori

- Sauvegarder (Geler)
- Réinitialiser (Geler)
- Passer au premier plan (gel)
- Aller à la dernière page (gel)
- Vitesse de lecture (gel)
- Image de départ (figée)
- Image finale (figée)

-Élastique

- Opacité : 0 à 10, par incréments de 1
- Inverser
- Synchronisation
- Persistance
- Lissage : 0 à 10, par incréments
- Carte : 1 à 7, 1/étape
- Sauvegarder (Geler)
- Réinitialiser (Geler)
- Passer au premier plan (gel)
- Aller à la dernière page (gel)
- Vitesse de lecture (gel)

-Anatomie M

- Afficher A
- Afficher B
- Afficher C
- Vitesse : 1 à 6, 1/pas
- Carte grise : 1-10, 1/étape
- Chrome : 0 à 8, 1/étape
- Sauvegarder (Geler)
- Réinitialiser (Geler)
- Passer en première position (gel)
- Aller au dernier (gel)
- Vitesse de lecture (gel)

5 Mesure

5.1 Mode 2D

- Général
  - Distance (2D)
  - Tracer
  - Ellipse
  - Angle
  - Volume
  - Rapport (D)
  - Ratio (Trace)
  - Rapport (Ellipse)
  - Spline
  - Croix
  - Double Dist
  - Trace Len
  - Trace Len (Spline)
  - Parallèle
  - Profil B
  - B-Hist (Ellipse)
  - B-Hist (Trace)
  - B-Hist (Spline)
  - B-Hist (Rectangle)
  - Profondeur
  - Couleur Vel
  - Volume (Ellipse)
  - Volume (E+Dist)
  - Rapport (Spline)
  - Ratio (Croix)
  - Rapport de déformation
  - IMT (à proximité)
  - IMT(Loin)
  - Débit volumique

→Zone de Vas, TAMEAN, TAMAX

- Abdomen
  - Foie
  - Rénal L

- H rénale
- Rénal W
- Cortex
- Surrénale L
- Adrenal H
- Adrenal W
- CBD
- Portail V Diam
- CHD
- GB L
- GB H
- mur GB
- Conduit pancréatique
- Tête de Panc
- Corps Panc
- Queue de Panc
- Rate
- Diamètre de l'aorte
- Aorte bifide
- Diam iliaque
- Vessie
- Pré-BL L
- Pré-BL H
- Pré-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Uretère
- Vol rénal
- Pré-BL Vol
- Post-BL Vol
- Mictur. Vol

-Gynécologie

- UT L
- UT H
- UT W
- Col de l'utérus L
- Col de l'utérus H
- Col de l'utérus W
- Endo
- Ovaire L
- Ovaire H
- Ovaire W
- Follicule1 L
- Follicule1 H
- Follicule1 W
- Follicule2 L
- Follicule2 H
- Follicule2 W
- Follicule3 L
- Follicule3 H
- Follicule3 W
- Follicule4 L
- Follicule4 H
- Follicule4 W
- Follicule5 L
- Follicule5 H
- Follicule5 W
- Follicule6 L
- Follicule6 H
- Follicule6 W
- Follicule7 L
- Follicule7 H
- Follicule7 W
- Follicule8 L
- Follicule8 H
- Follicule8 W
- Follicule9 L

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Système de diagnostic ultrasonique Doppler couleur portable

- Follicule9 H
- Follicule9 W
- Follicule10 L
- Follicule10 H
- Follicule10 W
- Follicule11 L
- Follicule11 H
- Follicule11 W
- Follicule12 L
- Follicule12 H
- Follicule12 W
- Follicule13 L
- Follicule13 H
- Follicule13W
- Follicule14 L
- Follicule14 H
- Follicule14 W
- Follicule15 L
- Follicule15 H
- Follicule15 W
- Follicule16 L
- Follicule16 H
- Follicule16 W
- Ovaire Vol
- UT Vol
- Corps de l'utérus
- UT-L/CX-L
- BND
- DWT
- DWT1
- DWT2
- DWT3
- DWT moyen
- Urine résiduelle : Hauteur BL, Profondeur BL
- BSD (R)
- UTA (R)
- RVA(R)
- BPW-SP Dist.(R)
- Dist. Cx-SP (R)
- Dist. RA-SP (R)
- Navette (R)
- ARA (R)
- LH AP Diam (R)
- Diamètre latéral gauche (D)
- Zone LH (R)
- Angle LA (R)
- LUG (R)
- BSD (Va)
- UTA (Va)
- RVA (Va)
- BPW-SP Dist. (Va)
- Dist. Cx-SP (Va)
- Dist. RA-SP (Va)
- Navette (Virginie)
- ARA (Va)
- LH AP Diam (Va)
- Diamètre latéral gauche (Va))
- Zone LH (Virginie)
- Épaisseur LA (Va)
- Angle de Los Angeles (Virginie)
- Épaisseur LA (Va)
- Angle LA (C)
- LUG (C)
- Dommages IAS
- Dommages EAS
- Cardiologie
- Ao Diam (2D)
- Ao Arch Diam (2D)

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Système de diagnostic ultrasonique Doppler couleur portable

- Ao Asc Diam (2D)
- Ao Desc Diam (2D)
- Isthme d'Ao (2D)
- Jonction de la rue Ao (2D)
- Ao Sinus Diam (2D)
- AVA
- Diam ASD
- ACS (2D)
- AV Diam
- Diamètre de l'art du conduit
- HR (Cube 2D)
- RH (Gibson 2D)
- RH (Teich 2D)
- IVC Diam (Expir)
- IVC Diam (Insp)
- IVSd (2D)
- IVS (2D)
- Région de Los Angeles
- LA Diam (2D)
- LA Major
- LA Minor
- LCA Diam
- LPA Diam (2D)
- Zone LV (d)
- Zone LV (s)
- Diastole (Cube2D)
- Diastole (Gibson2D)
- Diastole (Teich2D)
- LV Major
- LV Mineur
- Systole (Cube 2D)
- Systole (Gibson2D)
- Systole (Teich2D)
- LVIDd (2d)
- LVIDd (Cube 2D)
- LVIDd (Gibson2D)
- LVIDd (Teich2D)
- LVIDs (2d)
- LVIDs (Cube 2D)
- LVID (Gibson2D)
- LVID (Teich2D)
- Diamètre de la LVOT
- Diamètre RVOT
- LVPWd (2D)
- LVPW (2D)
- MCS (2D)
- MPA Diam (2D)
- MVA
- MV Diam
- MV EPSS (2D)
- PDA Diam
- PEd (2D)
- PEs (2D)
- PFO Diam
- Pré-ductal
- Post-ductal
- PV Diam
- Zone RA
- RA Major
- RA mineur
- RCA Diam
- RPA Diam (2D)
- Zone VR (d)
- Aires pour camping-cars
- RV Major
- RV Minor
- RVAWd (2D)
- RVAWs (2D)

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Système de diagnostic ultrasonique Doppler couleur portable

- RVDd (2D)
- RVD (2D)
- SVC Diam (Expir)
- SVC Diam (Insp)
- TV Diam
- TVA
- Diamètre VSD
- LVIDd (ellipse BP)
- LVIDs (ellipse BP)
- LVAd sax MV (BP Ellipse)
- LVAs sax MV (BP Ellipse)
- LVAd apical (ellipse BP)
- LVA apicaux (ellipse BP)
- FC (ellipse de PA)
- LVAd sax MV (Bullet)
- LVAs sax MV (Bullet)
- LVLd apical (Bullet)
- LVL apicaux (Bullet)
- RH (Bullet)
- LA Diam (LA Vol AL)
- LAA (A2C)
- LAA (A4C)
- LA Vol (A2C)
- LA Vol (A4C)
- Épidémiologie LVAd sax (LV Mass AL)
- LVAd sax Endo (LV Mass AL)
- LVLd apical (LV Mass AL)
- IVSd (LV Mass Cube-2D)
- LVIDd (LV Mass Cube-2D)
- LVPWd (LV Mass Cube-2D)
- LVAd sax Epi (LV Mass TE)
- LVAd sax Endo (LV Mass TE)
- un
- d
- RA Vol (A4C)
- LVLd apical (ellipse SP)
- LVAd apical (SP Ellipse)
- LVL apicaux (ellipse SP)
- LVA apicaux (ellipse SP)
- HR (ellipse SP)
- LVLd apical (Simp)
- LVLd apical (Simp)
- LVL apicaux (Simp)
- LVAd sax MV (Simp)
- LVAs sax MV (Simp)
- LVAD sax PM (Simp)
- LVAs sax PM (Simp)
- RH (Mod Simp)
- EDV (Simp BP-A2C)
- ESV (Simp BP-A2C)
- EDV (Simp BP-A4C)
- ESV (Simp BP-A4C)
- FC (PA simplifiée)
- EDV (Simp SP-A2C)
- ESV (Simp SP-A2C)
- HR (Simp SP A2C)
- EDV (Simp SP-A4C)
- ESV (Simp SP-A4C)
- RH (Simp SP A4C)
- LA/AO (2D)
- AO/LA (2D)
- Vasculaire
  - Sténose D
  - Sténose A
- Urologie
  - Rénal L
  - H rénale
  - Rénal W

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Système de diagnostic ultrasonique Doppler couleur portable

- Cortex
- Surrénale L
- Adrenal H
- Adrenal W
- Prostate L
- Prostate H
- Prostate W
- L séminal
- H séminal
- Seminal W
- Testiculaire L
- Testiculaire H
- Testiculaire W
- Uretère
- Pré-BL L
- Pré-BL H
- Pré-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Masse de la prostate1 d1
- Masse de la prostate1 d2
- Masse de la prostate1 d3
- Masse de la prostate2 d1
- Masse de la prostate2 d2
- Masse de la prostate2 d3
- Masse de la prostate3 d1
- Masse de la prostate3 d2
- Masse de la prostate3 d3
- Masse testiculaire1 d1
- Masse testiculaire1 d2
- Masse testiculaire1 d3
- Masse testiculaire2 d1
- Masse testiculaire2 d2
- Masse testiculaire2 d3
- Masse testiculaire3 d1
- Masse testiculaire3 d2
- Masse testiculaire3 d3
- Épididyme L
- Épididyme H
- Épididyme W
- Paroi scrotale
- Vol rénal
- Vol de prostate
- Testicules Vol
- Pré-BL Vol
- Post-BL Vol
- Mictur. Vol
- Petites pièces
- Thyroïde L
- Thyroïde H
- Thyroïde W
- Isthme H
- Testiculaire L
- Testiculaire H
- Testiculaire W
- Masse testiculaire1 d1
- Masse testiculaire1 d2
- Masse testiculaire1 d3
- Masse testiculaire2 d1
- Masse testiculaire2 d2
- Masse testiculaire2 d3
- Masse testiculaire3 d1
- Masse testiculaire3 d2
- Masse testiculaire3 d3
- Épididyme L
- Épididyme H
- Épididyme W

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Système de diagnostic ultrasonique Doppler couleur portable

- **Paroi scrotale**
- **Masse mammaire 1 L**
- **Masse mammaire1 H**
- **Masse mammaire 1 W**
- **Nip. - Mass1 Dist.**
- **Dist. de la masse cutanée1**
- **Masse mammaire 2 L**
- **Masse mammaire2 H**
- **Masse mammaire2 W**
- **Nip. -Mass2 Dist.**
- **Dist. de la masse cutanée2**
- **Masse mammaire 3 L**
- **Masse mammaire3 H**
- **Masse mammaire 3 W**
- **Nip. - Mass3 Dist.**
- **Dist. de la masse cutanée3**
- **Masse mammaire 4 L**
- **Masse mammaire 4 H**
- **Masse mammaire 4 W**
- **Nip.-Mass4 Dist.**
- **Dist. de la masse cutanée4**
- **Masse mammaire 5 L**
- **Masse mammaire 5 H**
- **Masse mammaire 5 W**
- **Nip. -Mass5 Dist.**
- **Dist. de la masse cutanée5**
- **Masse mammaire 6 L**
- **Masse mammaire 6 H**
- **Masse mammaire 6 W**
- **Nip. -Mass6 Dist.**
- **Dist. de la masse cutanée6**
- **Masse mammaire 7 L**
- **Masse mammaire 7 H**
- **Masse mammaire 7 W**
- **Nip. -Mass7 Dist.**
- **Dist. de la masse cutanée 7**
- **Masse mammaire 8 L**
- **Masse mammaire 8 H**
- **Masse mammaire 8 W**
- **Nip. -Mass8 Dist.**
- **Dist. de la masse cutanée8**
- **Masse mammaire9 L**
- **Masse mammaire9 H**
- **Masse mammaire9 W**
- **Nip. -Mass9 Dist.**
- **Dist. de la masse cutanée9**
- **Masse mammaire 10 L**
- **Masse mammaire 10 H**
- **Masse mammaire 10 W**
- **Nip. -Mass10 Dist.**
- **Masse de la peau 10 Dist.**
- **Masse thyroïdienne1 d1**
- **Masse thyroïdienne1 d2**
- **Masse thyroïdienne1 d3**
- **Masse thyroïdienne2 d1**
- **Masse thyroïdienne2 d2**
- **Masse thyroïdienne2 d3**
- **Masse thyroïdienne3 d1**
- **Masse thyroïdienne3 d2**
- **Masse thyroïdienne3 d3**
- **Vol. thyroïdien**
- **Distance B**
- **Pleural T**
- **Orthopédie**
- **HANCHE**
- **HIP (α)**
- **HIP (β)**
- **HIP-Graf**

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Système de diagnostic ultrasonique Doppler couleur portable

- d/D
- Obstétrique
- GS
- YS
- CRL
- NT
- Trouble de la personnalité limite
- OFD
- HC
- AC
- FL
- TAD
- APAD
- TCD
- CM
- LVW
- HW
- OOD
- IOD
- HUM
- Ulna
- RAD
- Tibia
- FIB
- CLAV
- Vertèbres
- Député
- Pied
- Oreille
- APTD
- TTD
- ALE
- THD
- Hrtc
- TC
- Umb VD
- F-rein
- Rein Mat
- Col de l'utérus L
- AF
- NF
- Orbit
- Épaisseur PL
- Sac Diam1
- Sac Diam2
- Sac Diam3
- AF1
- AF2
- AF3
- AF4
- LVIDd
- LVID
- LA Diam
- LV Diam
- RVIDd
- RVID
- RA Diam
- RV Diam
- IVSd
- IVS
- IVS
- Région de Los Angeles
- Zone LV
- Zone de camping-cars
- Zone RA
- Ao Diam
- MPA Diam
- Diamètre de la LVOT

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Système de diagnostic ultrasonique Doppler couleur portable

- Diamètre de la LVOT
- Angle facial
- HrtA
- MV Diam
- PV Diam
- Ao Asc Diam
- Ao Desc Diam
- Conduit Art. Diam
- TV Diam
- Diam LPA
- RPA Diam
- IVC Diam
- AV Diam
- UT L
- UT H
- UT W
- Endo
- Diamètre moyen du sac
- AFI
- EFW
- EFW2
- HC/AC
- FL/AC
- FL/BPD
- AXT
- CI
- FL/HC
- HC (C)
- Hrtc/TC
- TCD/AC
- LVW/HW
- LVD/RVD
- LAD/RAD
- AoD/MPAD
- LAD/AoD
- Urgence
- Rénal L
- H rénale
- Rénal W
- CBD
- Portail V Diam
- CHD
- mur GB
- Diamètre de l'aorte
- Aorte bifide
- Uretère
- Pré-BL L
- Pré-BL H
- Pré-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- GS
- YS
- CRL
- UT L
- UT H
- UT W
- Endo
- Ovaire L
- Ovaire H
- Ovaire W
- Vol rénal
- Pré-BL Vol
- Post-BL Vol
- Mictur. Vol
- Ovaire Vol
- UT Vol

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Système de diagnostic ultrasonique Doppler couleur portable

- UT SUM

Mode 5,2 M

- Général
  - Distance (M)
  - RH (H)
  - Pente
  - Temps (M)
  - Vitesse
- Cardiologie
  - Ao Arch Diam (M)
  - Ao Asc Diam (M)
  - Ao Desc Diam (M)
  - Ao Diam (M)
  - Isthme d'Ao (M)
  - Ao Sinus Diam (M)
  - Jonction de la rue Ao (M)
  - ACS (M)
  - HR (Cube M)
  - RH (Gibson M)
  - RH (Teich M)
  - IVSd (M)
  - IVS (M)
  - LA Diam (M)
  - LPA Diam (M)
  - Diastole (Cube M)
  - Diastole (Gibson M)
  - Diastole (Teich M)
  - Systole (Cube M)
  - Systole (Gibson M)
  - Systole (Teich M)
  - LVET (M)
  - LVIDd (Cube M)
  - LVIDd (Gibson M)
  - LVIDd (Teich M)
  - LVIDd (M)
  - LVIDs (M)
  - LVIDs (Cube M)
  - LVIDs (Gibson M)
  - LVIDs (Teich M)
  - LVPEP (M)
  - LVPWd (M)
  - LVPW (M)
  - MCS (M)
  - MPA Diam (M)
  - MV A Amp
  - MV E Amp
  - Pente MV DE
  - MV DE
  - Pente MV EF
  - MV EPSS (M)
  - PEd (M)
  - PEs (M)
  - RPA Diam (M)
  - RVAWd (M)
  - RVAWs (M)
  - RVDd (M)
  - RVD (M)
  - RVET (M)
  - RVPEP (M)
  - TAPSE
  - IVSd (LV Mass Cube-M)
  - LVIDd (LV Mass Cube-M)
  - LVPWd (LV Mass Cube-M)
  - MV CO dur
  - LVET (LV Tei Index-M)
  - LA/AO (M)
  - AO/LA (M)
- Obstétrique

- **FHR**
- **LVIDd (M)**
- **LVIDs (M)**
- **RVIDd (M)**
- **RVIDs (M)**
- **IVSd (M)**
- **IVS (M)**

- **Urgence**
- **FHR**

5.3 Doppler

- **Général**
- **PS/ED**
- **Vel**
- **FC (Doppler)**
- **Temps (Doppler)**
- **Accélération**
- **Trace D**
- **Rapport (Vel)**
- **Rapport (VTI)**
- **Débit volumique**
  - **→Zone Vas**
  - **→TAMÉEN**
  - **→TAMAX**

- **Abdomen**
- **Ren A Org**
- **A arqué**
- **Segment A**
- **Interlobaire A**
- **Rénal A**
- **M Rénal A**
- **Rénal V**
- **Aorte**
- **Axe cœliaque**
- **SMA**
- **C Hépatique A**
- **Splénique A**
- **IVC**
- **Portail V**
- **Portail M V**
- **Hépatique V**
- **Lt Hépatique V**
- **Hépatique droite V**
- **M Hépatique V**
- **Splénique V**
- **SMV**
- **RAR**
- **SMA/AO**
- **CA/AO**

- **Cardiologie**
- **MV Aa (latéral)**
- **MV Aa (médial)**
- **AAo Vmax**
- **AV VTI**
- **AV Vmax**
- **AR DécT**
- **AR PHT**
- **AR Ved**
- **AR Vmax**
- **AR VTI**
- **MV ARa (latéral)**
- **MV ARa (médial)**
- **ASD Vmax**
- **Compte AV**
- **AV DccT**
- **Pré-conduit Coarc**
- **Poste de conduit Coarc**
- **DAo Vmax**

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Système de diagnostic ultrasonique Doppler couleur portable

- MV DRa (latéral)
- MV DRa (médial)
- MV Ea (latéral)
- MV Ea (médial)
- FC (Doppler)
- Vitesse IVC (Expir)
- IVC Vel (Insp)
- IVCT
- LPA Vmax
- LVET (Doppler)
- Compte LVOT
- LVOT VTI
- Vmax de la LVOT
- LVPEP (D)
- MPA Vmax
- dp/dt
- MR VTI
- MR Vmax
- MS Vmax
- MV A Dur
- MV A Vel
- MV VTI
- Compte MV
- MV DécT
- MV E Dur
- MV E Vel
- MV E VTI
- IVRT
- MV VTI
- MV Vmax
- PVein A Dur
- PVein A Vel
- PVein D Vel
- PVein D VTI
- PVein DécT
- PVein S Vel
- PVein S VTI
- PDA Vel (d)
- PDA Vel (s)
- PR PHT
- PR VTI
- PR Ved
- PR Vmax
- Compte PV
- PV VTI
- PV Vmax
- RAP
- RAP Vmax
- RVET (Doppler)
- RVOT Vmax
- RVOT VTI
- RVPEP (Doppler)
- MV Sa (latéral)
- MV Sa (médial)
- SVC Vel (Expir)
- SVC Vel (Insp)
- TR VTI
- TR Vmax
- TV A Dur
- TVA Dur
- TV A Vel
- Compte TV
- TV DécT
- TV E Vel
- TV VTI
- TV Vmax
- VSD Vmax
- Hépatique VS Vel

- Vitesse de la VD hépatique
- MV HR
- TV HR
- AV HR
- PV HR
- Durée du CO MV (D)
- LVET (LV Tei Index-Doppler)
- AR Rad
- AR Als Vel
- M. Rad
- MR Als Vel
- RP Rad
- PR Als Vel
- TR Rad
- TR Als Vel
- TV CO dur
- RVET (RV Tei Index)
- MV E/A
- MVA (PHT)
- TV E/A
- TVA (PHT)

- Vasculaire

- CCA
- Ampoule
- ICA
- ECA
- Vert A
- InnomA
- SubclavA
- Axill A
- Brachial A
- Ulnaire A
- Radial A
- Subclav V
- Axill V
- Céphalique V
- Basilique V
- Ulnaire V
- Radial V
- C. Iliaque
- Ex.lliac A
- CFA
- SFA
- PopA
- Coffre TP A
- Péronier A
- P. TibA
- A. TibA
- Dors.Ped A
- C. Iliaque V
- Ex. Iliaque V
- Fémoral V
- SaphV
- PopV
- Coffre TP V
- Sural V
- Soleal V
- Péronée V
- P. TibV
- A. TibV
- ACA
- MCA
- PCA
- AComA
- PComA
- BA
- IIA
- DFA

- Ba V
- Brachial V
- IIV
- CFV
- SFV
- DFV
- SSV
- ASP
- BSP
- ICA/CCA (PS)

- Urologie
  - Testicule A
  - Testicule V
  - Épididyme A
  - Épididyme A
- Petites pièces
  - STA
  - ITA
- Obstétrique
  - Umb A
  - Canal veineux
  - Placenta A
  - MCA
  - Ao fœtal
  - Desc Aorte
  - Ut A
  - Ovarien A
  - FC fœtale (Doppler)
  - Aorte ascendante
  - RVOT
  - LVOT
- Urgence
  - FHR

6 Configuration du système

6.1 Préréglage système

-Région

- Informations sur l'hôpital : Nom, Adresse, Téléphone, fax, icône d'hôpital
- Langue et heure :
  → Langues : anglais, chinois, français, russe, Espagnol
  →Fuseau horaire
  →Date et heure
  →Format de date : aaaa-MM-jj, MM-jj-aaaa jj-MM-aaaa
  →Format horaire : 24 heures, 12 heures

-Général

- Informations destinées aux patients
  →Informations destinées aux patients :
  Nom, date de naissance, sexe, âge, hôpital, identifiant, Opérateur
  →Unité de taille et de poids :
  Système métrique, système britannique
  →Formule de la surface corporelle (BSA) :
  Est, Ouest
- Paramètres d'examen
  →Situation après la fin des examens :
  Numérisation, Nouveau patient, Liste de travail
  →Envoyer après l'examen
- Mode veille
  →Écran de veille : Attente de 1, 10, 30 ou 60 minutes
  →Veille : Attente de 1, 10, 30 ou 60 min

-Image

- Stockage d'images
  →Durée des films (s) : Réglable

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Système de diagnostic ultrasonique Doppler couleur portable

Cycle cardiaque : 1~16

→Taille de l'image : Zone d'image, Zone standard

→Sortie vidéo : PAL, NTSC

- Paramètres d'image

→Transducteur : 3C5PD, 3C5PB, 3C5PDS, 7L4PD, 7L4PB, 7L4PDS, 2P2MA, 3P2PA, 6E1PD, 6E1PDS, 6E1PB, 6C1PD, 4V4CDS

→Format d'affichage : V2:3, V3:2, V3:1, H2:3, Plein écran

→Style TI : TIB, TIC, TIS

→Geler : Relecture, Mesure, Pied à coulisse

→Direction : C&PW, C/PW, Inversion automatique

→Inversion automatique

→Règle horizontale

→Règle panoramique

-Appliquer

- Curseur de mesure

→ Type : Nombre, Symbole

→Tailles : Grand, Moyen, Petit

→Couleur (active) : vert, jaune, rouge, blanc

→Couleur (inactive) : vert, jaune, rouge, blanc

→Taille du résultat : Grand, Moyen, Petit

→Cycle cardiaque : 1 à 8

→Supprimer les résultats de mesure lors de la suppression pieds à coulisse

- Commentaire

→Taille de la police : Grande, Moyenne, Petite

→Taille des flèches : Grande, Moyenne, Petite

→Effacement automatique des commentaires lors du dégel l'image ou basculer le mode sonde ou examen

→Efface automatiquement la marque sur le corps lorsque dégeler l'image

- Follicule

→Méthode de calcul : Signal, Double, Trois

- OB

- AG fœtale

- Diamètre moyen du sac→Daya, Hellman
- OOD→Jeanty
- TCD→Colline, Nicolaides
- CLAV→Yarkoni
- Tibia→Jeanty
- Cubitus→Jeanty
- HUM→Jeanty, ASUM
- THD→Hansmann
- ALEA→Osaka
- TAD→CFEF
- OFD→Hansmann, Nicolaides, ASUM
- FL→Hadlock, Tokyo, Merz, Hansmann, Warda, Chitty, Osaka, Nicolaides, ASUM, Jeanty, Hohler, Chine
- AC→Hadlock, Jeanty, Merz, Chitty, ASUM, CFEF, Hansman
- HC→Hadlock, Jeanty, Hansmann, ChittyPL, Chitty_Derived, Nicolaides, ASUM, CFEF
- trouble de la personnalité limite→Hadlock, Tokyo, Jeanty, Kurtz, Hansmann, Merz, Rempen, ChittyOI, Osaka, Chine, Nicolaides, ASUM
- CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM, Jeanty, Nelson, Chine, RobinsonBMUS
- GS→Rempen, Tokyo, Hansmann, Chine
- EFW2→Hadlock, Tokyo
- EFW→Hadlock, Tokyo
- Fenêtres de résultats :

→Afficher EDD

→Afficher GA dans le rapport

- Poids fœtal
  - Poids fœtal

→Hadlock (AC, FL)

→Hadlock (AC, FL, BPD)

→Hadlock (AC, FL, HC)

→Hadlock (AC,FL,HC,BPD)

→Berger

→Merz1

→Merz2

→Hansmann (BPD,THD)

→Tokyo

→Osaka (FL,BPD,FTA)

→Campbell

  - Poids fœtal2

→Hadlock (AC, FL)

→Hadlock (AC, FL, BPD)

→Hadlock (AC, FL, HC)

→Hadlock (AC,FL,HC,BPD)

→Berger

→Merz1

→Merz2

→Hansmann (BPD,THD)

→Tokyo

→Osaka (FL,BPD,FTA)

→Campbell

  - Unité de poids : MÉTRIQUE, IMPÉRIAL, MÉTRIQUE & IMPÉRIAL

- Percentile du poids fœtal
  - Formule : NULL, Hadlock, Brenner, William
  - Type : AUA/CUA, LMP&AUA/CUA, LMP

- Courbe de croissance fœtale
  - FL/HC→Hadlock
  - HC/AC→Campbell
  - AFI→Moore
  - Umbari→JSUM
  - UmbAPI
  - MCARI→JSUM
  - MCAPI
  - CM→Nicolaïdes
  - TCD→Hill, Goldstein, Nicolaides
  - CLAV→Yarkoni
  - MENSONGE→Merz, Jeanty
  - RAD→Merz, Jeanty
  - Tibia→Merz, Jeanty
  - Cubitus→Merz, Jeanty
  - HUM→ASUM, Jeanty, Merz
  - THD→Hansmann
  - ALEA→Osaka
  - TAD→Merz, CFEF
  - APAD→Merz
  - OFD→Hansmann, Merz, Nicolaides, ASUM, Jeanty
  - FL→Hadlock, Tokyo, Merz, Hansmann, O_Brien, Warda, Chitty, Jeanty, Osaka, Nicolaides, ASUM, CFEF
  - AC→Hadlock, Jeanty, Merz, Chitty, Nicolaides, ASUM, CFEF, Hansman
  - HC→Hadlock, Merz, Hansmann, Jeanty, CFEF, ChittyPL, Chitty_Dérivé, Nicolaides, ASUM
  - trouble de la personnalité limite→Hadlock, Tokyo, Jeanty, Kurtz,

Sabbagha, Hansmann, Merz, Rempen, ChittyOI, Osaka, Nicolaides, ASUM, CFEF

- CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM
- GS→Rempen, Tokyo, Hansmann, Hellman
- EFW2→Hadlock, Hansmann, Tokyo, Brenner, William
- PEU→Hadlock, Hansmann, Tokyo, Brenner, William
- Graphique OB :1*1, 1*2, 2*2, 2*1

-Personnaliser

- Type de bouton : bouton, interrupteur au pied
- Bouton : Enregistrer1, Enregistrer2, Q1, Q2, Q3, Q4, Imprimer
- Type de fonction
  - Sortie : Enregistrer l'image, Enregistrer la vidéo
  - Impression : Impression analogique, Impression numérique
  - Mode image :
    →Passer en mode TDI
    →Activer le mode Elasto
    →Passer en mode panoramique
    →Passer en mode M anatomique
    →Entrez en mode Dual Live
    →Passer en mode Quad
  - Autres : Q Save, Congeler/Décongeler, Échographie assistant
- Vitesse de la trackball : Lente, Moyenne, Rapide
- Luminosité des boutons : 0-9
- Bouton de volume : Marche/Arrêt

-Administrateur

- Activer l'administration : Marche/Désactivation
  - Nom d'utilisateur, mot de passe, Ajouter, Supprimer, Modifier Mot de passe

6.2 Préréglage d'examen

- Disponible sur tous les transducteurs
- Ajouter de nouvelles applications
- Supprimer les applications

-Configurer l'application clinique par défaut au démarrage

-Position d'application réglable

6.3 Préréglage de mesure

- Mesure
  - Des éléments de mesure peuvent être ajoutés et déplacés.
  - 2D, M, Doppler
- Pied à coulisse
  - Des éléments de mesure peuvent être ajoutés et déplacés.
  - 2D, M, Doppler

-Rapport

- Nom du modèle de rapport prédéfini

Préréglage réseau 6.4

-TCP/IP local

- Réseau câblé
  - DHCP, Statique
    Adresse IP, masque de sous-réseau, passerelle

-DICOM Local

- Propriété du service DICOM localhost
  - Titre AE, Port, PDU
- Configuration du service
  - Appareil, IP
- Liste des appareils
  - Appareil, IP
  - Configurer le service DICOM, supprimer

-Service DICOM

- Stockage
- Imprimer
- Liste de travail
- MPPS

BWHUC-500

Système de diagnostic ultrasonique Doppler couleur portable

- Engagement de stockage

- Interroger/récupérer

6.5 Préréglage d'impression

-Service d'impression

- Ajouter
- Supprimer
- Rebaptiser
- Ajouter une imprimante
- Défaut
- Propriété de l'imprimante

  Type de service, Nom du service, Imprimante, Papier

  Orientation, Format du papier
- Paramètres d'impression

  Luminosité, contraste, saturation, lignes, colonnes

6.6 À propos et maintenance

- Informations système
- Informations détaillées
- Option
- Autre

7 Paramètres du transducteur

- Sonde convexe 3C5PD

- Applications : Abdominoplastie, Obstétrique, Gynécologie, Pédiatrie, Urologie

- Nombre d'éléments : 128

- Fréquences harmoniques : 1,2-3,0, 2,6-4,5, 4,2-6,5 MHz

- Fréquences de base : 3,4, 4,0, 5,0, 6,4 MHz

- Plage de profondeur : 40 à 420 mm

- Sonde linéaire 7L4PD

- Applications : Carotide, Thyroïde, Nerf,

Superficielle, musculo-squelettique, abdominale pédiatrique, orthopédique,

Vasculaire

- Nombre d'éléments : 128

- Fréquences harmoniques : 4,2-6,3, 6,0-9,5, 8,5-15,0 MHz

- Fréquences de base : 8,0, 9,4, 10,6, 12,2 MHz

- Plage de profondeur : 20-280 mm

- Sonde à réseau phasé 3P2PA

- Applications : Cardiologie adulte, Cardiologie pédiatrique,

TCI, ABD

- Nombre d'éléments : 64

- Fréquence des harmoniques :

1,2-2,6, 2,4-3,8, 3,5-6,5 MHz

- Fréquence de base : 3,0, 4,0, 5,0, 6,0 MHz

- Plage de profondeur : 30 à 320 mm

- Sonde de volume 4V4CDS

- Applications : ABD, OB, GYN

- Nombre d'éléments : 128

- Fréquence des harmoniques : 1,6-3,0, 2,8-4,5, 4,2-8,0 MHz

- Fréquences de base : 5,0, 6,4, 7,2, 8,0 MHz

- Plage de profondeur : 40 à 420 mm

- Sonde transvaginale 6E1PD

- Applications : Obstétrique-gynécologie, Prostate

- Nombre d'éléments : 128

- Fréquences harmoniques : 3,2-5,5, 5,2-7,5, 6,8-12,0 Hz

- Fréquences de base : 6,4, 7,2, 8,0, 10,0 MHz

- Plage de profondeur : 20 à 280 mm

- Sonde micro-convexe 6C1PD

- Applications : Pédiatrie ABD, Pédiatrie Cardiaque, TCI

- Nombre d'éléments : 128

- Fréquence des harmoniques : 3,5-6,3, 6,0-7,5, 6,8-12,0 MHz

BWHUC-500

Système de diagnostic ultrasonique Doppler couleur portable

- Fréquences de base : 6,4, 7,2, 8,0, 10,0 MHz

- Plage de profondeur : 20 à 280 mm

8 Entrées et sorties du système

-HDMI : 1

- **IMPRESSION : 1**
- **USB 2.0 : 2**
- **USB 3.0 : 1**

-S-Vidéo : 1

-Vidéo : 1

-Port réseau : 1

-Puissance absorbée : 1

9 Pack Standard

- **Unité principale**
- **Transducteurs sélectionnables**
- **Cordon d'alimentation/câble de mise à la terre**
- **Fusible (2)**
- **Manuel d'utilisation**
- **Gel de couplage (0,25 L)**

10 accessoires optionnels

- **Transducteurs**
- **Pédale d'interrupteur**
- **Imprimante thermique**
- **Imprimante laser**
- **Biopsie**

11 certificats

-Normes de qualité

- ISO9001

- ISO13485

-AVIS:

Toutes les caractéristiques et spécifications ne sont pas décrites.

Les informations contenues dans ce document peuvent être disponibles dans tous les transducteurs et tous les modes.

Zoncare se réserve le droit d'apporter des modifications dans les spécifications et caractéristiques présentées ici.

Zoncare Confidentiel

Version 1.0 janvier 2022

BWHUC-500

Portable Color Doppler Ultrasonic Diagnostic System

Datasheet

BAWERS
MEDICAL EQUIPMENT



BWHUC-500

Portable Color Doppler Ultrasonic Diagnostic System

1 System Overview

1.1 Clinical Applications

- Abdomen
- Obstetrics
- Gynecology
- Urology
- Cardiology
- Pediatric
- Small Parts
- Blood Vessel
- Superficial
- Orthopedic
- MSK
- Nerve
- Custom

1.2 Transducer Types

- Convex Transducer
- Linear array Transducer
- Trans-vaginal Transducer
- Micro-convex Transducer
- Phased array Transducer
- 4D volume Transducer

1.3 Imaging modes

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- Anatomic M mode
- Panoramic
- Color panoramic
- Trapezoidal (Linear transducer)
- Extended imaging (Efov)
- CW -Mode
- TDI (TVI, TVD, TVM, TEI)
- 3D/4D Mode

1.4 Standard features

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- CW Mode
- Anatomic M mode
- Panoramic
- Color panoramic
- Trapezoidal (Linear transducer)
- Extended imaging (Efov)
- Tissue Specific Imaging (TSI)
- Tissue Harmonic Imaging (THI)
- Speckle Reduction Imaging (SRI)
- Spatial Composite Imaging (SCI)
- Frequency Composite Imaging (FCI)
- B/D Chromatic Imaging
- Pan Zoom
- Local Zoom
- Auto Optimization

- Image Rotation
- Auto Calculate
- Auto IMT
- Archive management
- Raw data
- Multiple pregnancies
- HR Flow
- Biopsy function
- Velocity tag
- HPRF
- Imaging postprocessing
- Imaging preprocessing
- 15.6-inch monitor
- Elastic imaging
- TDI（TVI,TEI,TVM, TVD）
- Static 3D
- 4D Module
- Laser/thermal printer
- Foot Switch
- Puncture
- DICOM 3.0

1.5 Storage Format

- Image: RAW, JPG/AVI, DCM, BMP/AVI, TIFF/AVI
- Report: PDF

2 Physical Specification

2.1 Dimension and weight

- Width: approx. 380mm
- Height: approx. 361mm
- Thickness: approx.131mm
- Net Weight: approx. 6.3kg (without battery)

2.2 Monitor

- 15.6-inch high resolution color display screen
- Resolution: 1920*1080
- Tilt angle range 0-70° (U/D)

2.4 Transducer ports and holders

- 3 activated Transducer ports
- Removable Transducer holders

2.5 Electrical power

- AC adapter Input
  - Voltage: 100-240V~
  - Frequency: 50/60Hz
  - Output Voltage: 19V±1
  - Output electric current: 5.8A
- Lithium Battery
  - Battery Capacity: 10000mA
  - Output Voltage: 14.4V

2.6 Operation Environment

- Ambient temperature: 5℃~+40℃
- Relative humidity: 25%~85%
- Atmospheric pressure: 70kpa ~ 106kpa

2.7 Storage &Transport Environment

- Ambient temperature: -20℃~+55℃
- Relative humidity: 10%~95%
- Atmospheric pressure: 50kpa-106kpa

2.8. Main body

- 500G HDD
- Operating system -- Linux

3 User Interface

3.1 Monitor information

- Common info:
  - Logo
  - Hospital name
  - Display Parameters
  - System date &Time
  - Clinical application

- **Transducer type**
- **Exam mode**
- **Patient Name, Age, Gender**
- **Transducer mark**
- **Focus position**
- **Parallel scale & Vertical scale**
- **Freeze mark**
- **TGC Curve**
- **Acoustic power**
- **Volume histogram**
- **Gray bar/ Color bar**
- **Recycle bin icon**

3.3 Control panel

- **Power On/Off**
- **Imaging Mode buttons**
  - **B, C, PW, M, Quad,3D/4D, PDI, CW, TDI, ECG, Biopsy**
- **Parameter shortcut keys**
  - **Depth**
  - **Focus position**
  - **Angle/steer**
  - **Auto**
  - **Zoom**
  - **Gain**
- **User-defined programming key**
  - **Q1, Q2, Q3, Q4, Save 1, Save 2, Print**
- **Freeze button**
- **Function**
  - **Measure**
  - **Caliper**
  - **Dual**
  - **Quad**
  - **Update**
  - **Text**
  - **Body Mark**
  - **Arrow**
  - **Cursor**
  - **Clean**
  - **Print**
  - **Transducer**
  - **Patient**
  - **Report**
  - **Review**
  - **End Exam**
  - **Help**
  - **Station**
  - **Setup**
  - **QSave**
- **8-segment TGC control**
- **Trackball**
- **Keyboard**

3.4 System boot-up

- **Boot-up in about 90s**
- **Shut down in about 5s**
- **Standby time: 1, 10,30, 60 min**
- **Screen saver: 1, 10,30, 60 min**

3.5 Comments & Arrow

- **Arrow position adjustable**
- **Arrow size adjustable**
- **Arrow direction adjustable**
- **Comments position adjustable**
- **Comments fontsize adjustable**
- **User-defined adding and deleting**

3.6 Body Marks

- **More than 200 body-marks**
- **User-defined adding and deleting**

- Drag to change the position

4 Imaging Parameters

4.1 B mode

- Display Format: B (Single), 2B (Dual), 4B (Quad)
- U/D Reverse: On, Off
- L/R Reverse: On, Off
- Dual Live
- Depth: Depend on different transducer
- Frequency: Depend on different transducers
- THI:
  →Tissue Harmonic Imaging
  →Available on all transducers
- B steer:
  →For linear transducer
  →Left 4 steps adjustable
  →Right 4 steps adjustable
- Gain: 0~100
- Pan Zoom: Z0.8, Z0.9,Z1.0, Z1.1, Z1.2, Z1.4,Z1.6, Z1.8, Z2.0，Z3.0，Z4.0，Z5.0, Z6.0, Z7.0, Z 8.0, Z9.0, Z10.0
- Horizontal Ruler: Hide/Display
- Center Line: Convex transducer
- Image Quality: Pen, Gen, Res, HPen, HPen-Gen, HGen, HRes
- Dyn Ra (Dynamic range): 30-180, 5/step
- ZClear: 0~6, 1/step
- Persistence: 0~6, 1/step
- Gray Map: 1~10, 1/step
- Chrome:0~8, 1/step
- A.Power: 1~20, 1/step
- Rotation: 0°, 90°, 180°, 270°
- Focus Number: Up to 8
- FCI (Frequency Composite Imaging):
  →0 or 1
- TSI: General, Muscle, Fat, Fluid
- Field of View: 1~8, 1/step
- SCI (Spatial Composite Imaging）：0~7, 1/step
- Line Density: L, H
- EFOV:
  →0, 1, 2 Adjustable
  →Extended FOV available on Convex, Linear, Trans-vaginal, 4D volume

- M mode
  - Display Format
    →V2:3, V3:2, V3:1, H2:3, Full
  - Dyn Ra.: 30~180, 5/step
  - Gray Map: 1~10, 1/step
  - Speed: 1~6, 6 steps adjustable
  - Chrome: 0~8, 1/step
  - Save (Freeze)
  - Reset (Freeze)
  - Jump to First (Freeze)
  - Jump to Last (Freeze)
  - Replay Speed (Freeze)
  - Start Time (Freeze)
  - End Time (Freeze)
- C mode
  - ROI Position: trackball
  - ROI Size: trackball & set key
  - ROI Steer: Linear transducer
    →Left 4 steps adjustable
    →Right 4 steps adjustable
  - Dual Live: B/C, B/PDI, B/DPDI

BWHUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- **Quad: Color 4B**
- **Image Quality: Pen, Gen, Res**
- **Wall Filter: 0~7, 1/step**
- **Sensitivity: 1~4, 1/step**
- **Persistence: 0~5, 1/step**
- **Smooth: 0~5, 1/step**
- **Line Density: L, H**
- **Flow State: L M H**
- **HR Flow**
- **Priority: 0~100, 1/step**
- **Invert**
- **Velocity Tag: On, Off**
- **B/C Align**
- **Color hide: On, Off**
- **Color Map: V0~VV9, 20 steps**
- **PRF: 0.2~7.9KHz**

- **PW mode**
  - **Image Quality: Pen, Gen, Res**
  - **Wall Filter: 0~7, 1/step**
  - **Invert: On, Off**
  - **Quick Angle: 0°, +60°, -60°**
  - **Speed:1~6, 1/step**
  - **Auto Calc Cycle: 1, 2, 3**
  - **Auto Invert: On, Off**
  - **Trace Area: Above, Below, All**
  - **SV: 0.5~40mm, 0.5mm/step**
  - **HPRF: ON/OFF**
  - **Volume: 0-100, 1/step**
  - **Dyn Ra.: 24~72, 2/step**
  - **Multi sync: ON/OFF**
  - **Auto Calc Para**

    →AT, D/S, DT, ED, Flow (TAMAX), VTI, Flow (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

    →User-defined selection
  - **Chrome: 0~8, 1/step**
  - **Gray Map: 1~10, 1/step**
  - **T/F Resolution: 1~5, 1/step**
  - **Display Format：**

    →V2:3, V3:2, V3:1, H2:3, Full
  - **PRF: 0.5KHz~12.0KHz**
  - **Auto calc cycle: 1, 2, 3 Adjustable**
  - **Save (Freeze)**
  - **Reset (Freeze)**
  - **Jump to First (Freeze)**
  - **Jump to Last (Freeze)**
  - **Replay Speed (Freeze)**
  - **Select Start (Freeze)**
  - **Select End (Freeze)**

- **CW Mode**
  - **Image Quality: Gen**
  - **Dyn Ra.: 24-72, 2/step**
  - **PRF: 0.5KHz~120.0KHz**
  - **Speed: 1-6**
  - **Angle: -80°~80°, 1° /step**
  - **Gray Map: 1-10**
  - **Wall Filter: 0-7, 1/step**
  - **Chroma: 0-8**
  - **T/F Resolution: 1-5, 1/step**
  - **Invert: On/Off**
  - **Volume: 0-100, 1/step**
  - **Display Format: Full, V2:3, V3:2, V3:1, H2:3**
  - **baseline:17 step**
  - **Auto Spectrum**
  - **Auto Calc: On/Off**
  - **Auto Calc Para:**

    →Automatic spectrum calculation results

AT, D/S, DT, ED, Flow (MAX), VTI, Flow (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

→User-defined selection

- Static 3D&4D
  - Prepare parameters
    - →Autoface: On, Off
    - →Trim Used
    - →Angle: 10°~70°， 5°/step
    - →Quality: Lowest, Low, Medium High, Highest
    - →Angle: 10°~70°， 5°/step
    - →Render mode: Surface，Depth，Max，Min，Xray，ZLive, Silhouette
  - Update parameters
    - →Display Format: Single, Dual, Quad, LeftQuad
    - →Render mode: Surface，Depth，Max，Min，Xray，ZLive, Silhouette
    - →Orientation: 0°, 90°, 180°, 270°
    - →RotateX: Adjustable
    - →RotateY: Adjustable
    - →RotateZ: Adjustable
    - →Threshold: 1-100, 1/step
    - →Opacity: 0~100, 5/step
    - →Contrast:0~100, 1/step
    - →Brightness: 0~100, 1/step
    - →Smooth: 0~12, 1/step
    - →RefSection: A, B, C
    - →VR Status: VR, MPR, MPR
    - →Reset Ori
    - →Reset All
    - →Sync
    - →Chrome:0~8, 1/step
    - →Image Enh. : 0~10
    - →Movelight
    - →Reset Trim
    - →Invert
    - →View Direction: UP/Down, Down/UP, Left/Right, Right/Left, Front/Back, Back/Front
    - →Reverse View
    - →Gray Map
  - Image Edit parameters
    - →Edit Mode: Box in, Box Out, Contour In, Contour Out, Polygon In, Polygon Out
    - →Undo
    - →Undo All
    - →Trim Depth: 0-100
  - Zpage
    - →Display Format: 2×2, 3×3, 4×4, 5×5
    - →Distance: 0.1-20, 0.1/step
    - →RefSection: A, B, C
    - →RotateX: Adjustable
    - →RotateY: Adjustable
    - →RotateZ: Adjustable
    - →Slices Full
    - →Slice Pos: -7~8, 1/step
    - →Orentation: Horizontal, Verrical
  - Layout parameters
    - →Display Format: Single, Quad
    - →3D_Niche Directior: Front Back, Back Front
    - →RefSection: A/B/C/Niche
    - →Reset Ori

- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)
- Start Frame (Freeze)
- End Frame (Freeze)

● Elastic

- Opacity: 0~10, 1/step
- Invert
- Sync
- Persistence
- Smooth: 0~10, 1/step
- Map: 1~7, 1/step
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)

● Anatomic M

- Show A
- Show B
- Show C
- Speed :1~6, 1/step
- Gray Map: 1-10, 1/step
- Chrome: 0~8, 1/step
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)

5 Measurement

5.1 2D mode

● General

- Distance (2D)
- Trace
- Ellipse
- Angle
- Volume
- Ratio (D)
- Ratio (Trace)
- Ratio (Ellipse)
- Spline
- Cross
- Double Dist
- Trace Len
- Trace Len (Spline)
- Parallel
- B-Profile
- B-Hist (Ellipse)
- B-Hist (Trace)
- B-Hist (Spline)
- B-Hist (Rectangle)
- Depth
- Color Vel
- Volume (Ellipse)
- Volume (E+Dist)
- Ratio (Spline)
- Ratio (Cross)
- Strain Ratio
- IMT(Near)
- IMT(Far)
- Vol Flow

→Vas Area, TAMEAN, TAMAX

● Abdomen

- Liver
- Renal L

- Renal H
- Renal W
- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- CBD
- Portal V Diam
- CHD
- GB L
- GB H
- GB wall th
- Panc duct
- Panc head
- Panc body
- Panc tail
- Spleen
- Aorta Diam
- Aorta Bif
- Iliac Diam
- Bladder
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Ureter
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol

● Gynecology

- UT L
- UT H
- UT W
- Cervix L
- Cervix H
- Cervix W
- Endo
- Ovary L
- Ovary H
- Ovary W
- Follicle1 L
- Follicle1 H
- Follicle1 W
- Follicle2 L
- Follicle2 H
- Follicle2 W
- Follicle3 L
- Follicle3 H
- Follicle3 W
- Follicle4 L
- Follicle4 H
- Follicle4 W
- Follicle5 L
- Follicle5 H
- Follicle5 W
- Follicle6 L
- Follicle6 H
- Follicle6 W
- Follicle7 L
- Follicle7 H
- Follicle7 W
- Follicle8 L
- Follicle8 H
- Follicle8 W
- Follicle9 L

BWHUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- **Follicle9 H**
- **Follicle9 W**
- **Follicle10 L**
- **Follicle10 H**
- **Follicle10 W**
- **Follicle11 L**
- **Follicle11 H**
- **Follicle11 W**
- **Follicle12 L**
- **Follicle12 H**
- **Follicle12 W**
- **Follicle13 L**
- **Follicle13 H**
- **Follicle13W**
- **Follicle14 L**
- **Follicle14 H**
- **Follicle14 W**
- **Follicle15 L**
- **Follicle15 H**
- **Follicle15 W**
- **Follicle16 L**
- **Follicle16 H**
- **Follicle16 W**
- **Ovary Vol**
- **UT Vol**
- **Uterus Body**
- **UT-L/CX-L**
- **BND**
- **DWT**
- **DWT1**
- **DWT2**
- **DWT3**
- **Mean DWT**
- **Residual Urine: BL Height, BL Depth**
- **BSD (R)**
- **UTA (R)**
- **RVA(R)**
- **BPW-SP Dist.(R)**
- **Cx-SP Dist. (R)**
- **RA-SP Dist. (R)**
- **Shuttle (R)**
- **ARA (R)**
- **LH AP Diam (R)**
- **LH Lateral Diam (R)**
- **LH Area (R)**
- **LA Angle (R)**
- **LUG (R)**
- **BSD (Va)**
- **UTA (Va)**
- **RVA (Va)**
- **BPW-SP Dist. (Va)**
- **Cx-SP Dist. (Va)**
- **RA-SP Dist. (Va)**
- **Shuttle (Va)**
- **ARA (Va)**
- **LH AP Diam (Va)**
- **LH Lateral Diam (Va）**
- **LH Area (Va)**
- **LA Thickness (Va)**
- **LA Angle (Va)**
- **LA Thickness (Va)**
- **LA Angle (C)**
- **LUG (C)**
- **IAS Damage**
- **EAS Damage**

● **Cardiology**

- **Ao Diam (2D)**
- **Ao Arch Diam (2D)**

BWHUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- **Ao Asc Diam (2D)**
- **Ao Desc Diam (2D)**
- **Ao Isthmus (2D)**
- **Ao st junct (2D)**
- **Ao Sinus Diam (2D)**
- **AVA**
- **ASD Diam**
- **ACS (2D)**
- **AV Diam**
- **Duct Art Diam**
- **HR (Cube 2D)**
- **HR (Gibson 2D)**
- **HR (Teich 2D)**
- **IVC Diam (Expir)**
- **IVC Diam (Insp)**
- **IVSd (2D)**
- **IVSs (2D)**
- **LA Area**
- **LA Diam (2D)**
- **LA Major**
- **LA Minor**
- **LCA Diam**
- **LPA Diam (2D)**
- **LV Area (d)**
- **LV Area (s)**
- **Diastole (Cube2D)**
- **Diastole (Gibson2D)**
- **Diastole (Teich2D)**
- **LV Major**
- **LV Minor**
- **Systole (Cube 2D)**
- **Systole (Gibson2D)**
- **Systole (Teich2D)**
- **LVIDd (2d)**
- **LVIDd (Cube 2D)**
- **LVIDd (Gibson2D)**
- **LVIDd (Teich2D)**
- **LVIDs (2d)**
- **LVIDs (Cube 2D)**
- **LVIDs (Gibson2D)**
- **LVIDs (Teich2D)**
- **LVOT Diam**
- **RVOT Diam**
- **LVPWd (2D)**
- **LVPWs (2D)**
- **MCS (2D)**
- **MPA Diam (2D)**
- **MVA**
- **MV Diam**
- **MV EPSS (2D)**
- **PDA Diam**
- **PEd (2D)**
- **PEs (2D)**
- **PFO Diam**
- **Pre Ductal**
- **Post Ductal**
- **PV Diam**
- **RA Area**
- **RA Major**
- **RA Minor**
- **RCA Diam**
- **RPA Diam (2D)**
- **RV Area (d)**
- **RV Area (s)**
- **RV Major**
- **RV Minor**
- **RVAWd (2D)**
- **RVAWs (2D)**

BWHUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- RVDd (2D)
- RVDs (2D)
- SVC Diam (Expir)
- SVC Diam (Insp)
- TV Diam
- TVA
- VSD Diam
- LVIDd (BP Ellipse)
- LVIDs (BP Ellipse)
- LVAd sax MV (BP Ellipse)
- LVAs sax MV (BP Ellipse)
- LVAd apical (BP Ellipse)
- LVAs apical (BP Ellipse)
- HR (BP Ellipse)
- LVAd sax MV (Bullet)
- LVAs sax MV (Bullet)
- LVLd apical (Bullet)
- LVLs apical (Bullet)
- HR (Bullet)
- LA Diam (LA Vol A-L)
- LAA (A2C)
- LAA (A4C)
- LA Vol (A2C)
- LA Vol (A4C)
- LVAd sax Epi (LV Mass A-L)
- LVAd sax Endo (LV Mass A-L)
- LVLd apical (LV Mass A-L)
- IVSd (LV Mass Cube-2D)
- LVIDd (LV Mass Cube-2D)
- LVPWd (LV Mass Cube-2D)
- LVAd sax Epi (LV Mass T-E)
- LVAd sax Endo (LV Mass T-E)
- a
- d
- RA Vol (A4C)
- LVLd apical (SP Ellipse)
- LVAd apical (SP Ellipse)
- LVLs apical (SP Ellipse)
- LVAs apical (SP Ellipse)
- HR (SP Ellipse)
- LVLd apical (Simp)
- LVLd apical (Simp)
- LVLs apical (Simp)
- LVAd sax MV (Simp)
- LVAs sax MV (Simp)
- LVAd sax PM (Simp)
- LVAs sax PM (Simp)
- HR (Mod Simp)
- EDV (Simp BP-A2C)
- ESV (Simp BP-A2C)
- EDV (Simp BP-A4C)
- ESV (Simp BP-A4C)
- HR (Simp BP)
- EDV (Simp SP-A2C)
- ESV (Simp SP-A2C)
- HR (Simp SP A2C)
- EDV (Simp SP-A4C)
- ESV (Simp SP-A4C)
- HR (Simp SP A4C)
- LA/AO (2D)
- AO/LA (2D)

- **Vascular**
  - Stenosis D
  - Stenosis A
- **Urology**
  - Renal L
  - Renal H
  - Renal W

BWHUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- Prostate L
- Prostate H
- Prostate W
- Seminal L
- Seminal H
- Seminal W
- Testicular L
- Testicular H
- Testicular W
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Prostate Mass1 d1
- Prostate Mass1 d2
- Prostate Mass1 d3
- Prostate Mass2 d1
- Prostate Mass2 d2
- Prostate Mass2 d3
- Prostate Mass3 d1
- Prostate Mass3 d2
- Prostate Mass3 d3
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W
- Scrotal Wall
- Renal Vol
- Prostate Vol
- Testis Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol

● SmallParts

- Thyroid L
- Thyroid H
- Thyroid W
- Isthmus H
- Testicular L
- Testicular H
- Testicular W
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W

BWHUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- Scrotal Wall
- Breast Mass1 L
- Breast Mass1 H
- Breast Mass1 W
- Nip. -Mass1 Dist.
- Skin-Mass1 Dist.
- Breast Mass2 L
- Breast Mass2 H
- Breast Mass2 W
- Nip. -Mass2 Dist.
- Skin-Mass2 Dist.
- Breast Mass3 L
- Breast Mass3 H
- Breast Mass3 W
- Nip. -Mass3 Dist.
- Skin-Mass3 Dist.
- Breast Mass4 L
- Breast Mass4 H
- Breast Mass4 W
- Nip.-Mass4 Dist.
- Skin-Mass4 Dist.
- Breast Mass5 L
- Breast Mass5 H
- Breast Mass5 W
- Nip. -Mass5 Dist.
- Skin-Mass5 Dist.
- Breast Mass6 L
- Breast Mass6 H
- Breast Mass6 W
- Nip. -Mass6 Dist.
- Skin-Mass6 Dist.
- Breast Mass7 L
- Breast Mass7 H
- Breast Mass7 W
- Nip. -Mass7 Dist.
- Skin-Mass7 Dist.
- Breast Mass8 L
- Breast Mass8 H
- Breast Mass8 W
- Nip. -Mass8 Dist.
- Skin-Mass8 Dist.
- Breast Mass9 L
- Breast Mass9 H
- Breast Mass9 W
- Nip. -Mass9 Dist.
- Skin-Mass9 Dist.
- Breast Mass10 L
- Breast Mass10 H
- Breast Mass10 W
- Nip. -Mass10 Dist.
- Skin-Mass10 Dist.
- Thyroid Mass1 d1
- Thyroid Mass1 d2
- Thyroid Mass1 d3
- Thyroid Mass2 d1
- Thyroid Mass2 d2
- Thyroid Mass2 d3
- Thyroid Mass3 d1
- Thyroid Mass3 d2
- Thyroid Mass3 d3
- Thyroid Vol
- B- distance
- Pleural T

● Orthopedics

- HIP
- HIP (α)
- HIP (β)
- HIP-Graf

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Portable Color Doppler Ultrasonic Diagnostic System

- d/D

- **Obstetrics**
  - GS
  - YS
  - CRL
  - NT
  - BPD
  - OFD
  - HC
  - AC
  - FL
  - TAD
  - APAD
  - TCD
  - CM
  - LVW
  - HW
  - OOD
  - IOD
  - HUM
  - Ulna
  - RAD
  - Tibia
  - FIB
  - CLAV
  - Vertebrae
  - MP
  - Foot
  - Ear
  - APTD
  - TTD
  - FTA
  - THD
  - Hrtc
  - TC
  - Umb VD
  - F-kidney
  - Mat kidney
  - Cervix L
  - AF
  - NF
  - Orbit
  - PL Thickness
  - Sac Diam1
  - Sac Diam2
  - Sac Diam3
  - AF1
  - AF2
  - AF3
  - AF4
  - LVIDd
  - LVIDs
  - LA Diam
  - LV Diam
  - RVIDd
  - RVIDs
  - RA Diam
  - RV Diam
  - IVSd
  - IVSs
  - IVS
  - LA Area
  - LV Area
  - RV Area
  - RA Area
  - Ao Diam
  - MPA Diam
  - LVOT Diam

BWHUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- **LVOT Diam**
- **Facial Angle**
- **HrtA**
- **MV Diam**
- **PV Diam**
- **Ao Asc Diam**
- **Ao Desc Diam**
- **Duct Art. Diam**
- **TV Diam**
- **LPA Diam**
- **RPA Diam**
- **IVC Diam**
- **AV Diam**
- **UT L**
- **UT H**
- **UT W**
- **Endo**
- **Mean Sac Diam**
- **AFI**
- **EFW**
- **EFW2**
- **HC/AC**
- **FL/AC**
- **FL/BPD**
- **AXT**
- **CI**
- **FL/HC**
- **HC (C)**
- **Hrtc/TC**
- **TCD/AC**
- **LVW/HW**
- **LVD/RVD**
- **LAD/RAD**
- **AoD/MPAD**
- **LAD/AoD**

● **Emergency**

- **Renal L**
- **Renal H**
- **Renal W**
- **CBD**
- **Portal V Diam**
- **CHD**
- **GB wall th**
- **Aorta Diam**
- **Aorta Bif**
- **Ureter**
- **Pre-BL L**
- **Pre-BL H**
- **Pre-BL W**
- **Post-BL L**
- **Post-BL H**
- **Post-BL W**
- **GS**
- **YS**
- **CRL**
- **UT L**
- **UT H**
- **UT W**
- **Endo**
- **Ovary L**
- **Ovary H**
- **Ovary W**
- **Renal Vol**
- **Pre-BL Vol**
- **Post-BL Vol**
- **Mictur. Vol**
- **Ovary Vol**
- **UT Vol**

- **UT SUM**

5.2 M mode

- **General**
  - **Distance (M)**
  - **HR (M)**
  - **Slope**
  - **Time (M)**
  - **Velocity**
- **Cardiology**
  - **Ao Arch Diam (M)**
  - **Ao Asc Diam (M)**
  - **Ao Desc Diam (M)**
  - **Ao Diam (M)**
  - **Ao Isthmus (M)**
  - **Ao Sinus Diam (M)**
  - **Ao st junct (M)**
  - **ACS (M)**
  - **HR (Cube M)**
  - **HR (Gibson M)**
  - **HR (Teich M)**
  - **IVSd (M)**
  - **IVSs (M)**
  - **LA Diam (M)**
  - **LPA Diam (M)**
  - **Diastole (Cube M)**
  - **Diastole (Gibson M)**
  - **Diastole (Teich M)**
  - **Systole (Cube M)**
  - **Systole (Gibson M)**
  - **Systole (Teich M)**
  - **LVET (M)**
  - **LVIDd (Cube M)**
  - **LVIDd (Gibson M)**
  - **LVIDd (Teich M)**
  - **LVIDd (M)**
  - **LVIDs (M)**
  - **LVIDs (Cube M)**
  - **LVIDs (Gibson M)**
  - **LVIDs (Teich M)**
  - **LVPEP (M)**
  - **LVPWd (M)**
  - **LVPWs (M)**
  - **MCS (M)**
  - **MPA Diam (M)**
  - **MV A Amp**
  - **MV E Amp**
  - **MV D-E Slope**
  - **MV DE**
  - **MV E-F Slope**
  - **MV EPSS (M)**
  - **PEd (M)**
  - **PEs (M)**
  - **RPA Diam (M)**
  - **RVAWd (M)**
  - **RVAWs (M)**
  - **RVDd (M)**
  - **RVDs (M)**
  - **RVET (M)**
  - **RVPEP (M)**
  - **TAPSE**
  - **IVSd (LV Mass Cube-M)**
  - **LVIDd (LV Mass Cube-M)**
  - **LVPWd (LV Mass Cube-M)**
  - **MV C-O dur**
  - **LVET (LV Tei Index-M)**
  - **LA/AO (M)**
  - **AO/LA (M)**
- **Obstetrics**

- FHR
- LVIDd (M)
- LVIDs (M)
- RVIDd (M)
- RVIDs (M)
- IVSd (M)
- IVSs (M)

● Emergency

- FHR

5.3 Doppler

● General

- PS/ED
- Vel
- HR (Doppler)
- Time (Doppler)
- Acceleration
- D Trace
- Ratio (Vel)
- Ratio (VTI)
- Vol Flow
  - →Vas Area
  - →TAMEAN
  - →TAMAX

● Abdomen

- Ren A Org
- Arcuate A
- Segment A
- Interlobar A
- Renal A
- M Renal A
- Renal V
- Aorta
- Celiac Axis
- SMA
- C Hepatic A
- Splenic A
- IVC
- Portal V
- M Portal V
- Hepatic V
- Lt Hepatic V
- Rt Hepatic V
- M Hepatic V
- Splenic V
- SMV
- RAR
- SMA/AO
- CA/AO

● Cardiology

- MV Aa (lateral)
- MV Aa (medial)
- AAo Vmax
- AV VTI
- AV Vmax
- AR DecT
- AR PHT
- AR Ved
- AR Vmax
- AR VTI
- MV ARa (lateral)
- MV ARa (medial)
- ASD Vmax
- AV AccT
- AV DccT
- Coarc Pre-Duct
- Coarc post-Duct
- DAo Vmax

BWHUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- MV DRa (lateral)
- MV DRa (medial)
- MV Ea (lateral)
- MV Ea (medial)
- HR (Doppler)
- IVC Vel (Expir)
- IVC Vel (Insp)
- IVCT
- LPA Vmax
- LVET (Doppler)
- LVOT AccT
- LVOT VTI
- LVOT Vmax
- LVPEP (D)
- MPA Vmax
- dp/dt
- MR VTI
- MR Vmax
- MS Vmax
- MV A Dur
- MV A Vel
- MV VTI
- MV AccT
- MV DecT
- MV E Dur
- MV E Vel
- MV E VTI
- IVRT
- MV VTI
- MV Vmax
- PVein A Dur
- PVein A Vel
- PVein D Vel
- PVein D VTI
- PVein DecT
- PVein S Vel
- PVein S VTI
- PDA Vel (d)
- PDA Vel (s)
- PR PHT
- PR VTI
- PR Ved
- PR Vmax
- PV AccT
- PV VTI
- PV Vmax
- RAP
- RAP Vmax
- RVET (Doppler)
- RVOT Vmax
- RVOT VTI
- RVPEP (Doppler)
- MV Sa (lateral)
- MV Sa (medial)
- SVC Vel (Expir)
- SVC Vel (Insp)
- TR VTI
- TR Vmax
- TV A Dur
- TVA Dur
- TV A Vel
- TV AccT
- TV DecT
- TV E Vel
- TV VTI
- TV Vmax
- VSD Vmax
- Hepatic V S Vel

- **Hepatic V D Vel**
- **MV HR**
- **TV HR**
- **AV HR**
- **PV HR**
- **MV C-O dur (D)**
- **LVET (LV Tei Index-Doppler)**
- **AR Rad**
- **AR Als Vel**
- **MR Rad**
- **MR Als Vel**
- **PR Rad**
- **PR Als Vel**
- **TR Rad**
- **TR Als Vel**
- **TV C-O dur**
- **RVET (RV Tei Index)**
- **MV E/A**
- **MVA (PHT)**
- **TV E/A**
- **TVA (PHT)**

● **Vascular**

- **CCA**
- **Bulb**
- **ICA**
- **ECA**
- **Vert A**
- **InnomA**
- **SubclavA**
- **Axill A**
- **Brachial A**
- **Ulnar A**
- **Radial A**
- **Subclav V**
- **Axill V**
- **Cephalic V**
- **Basilic V**
- **Ulnar V**
- **Radial V**
- **C. IliacA**
- **Ex.lliac A**
- **CFA**
- **SFA**
- **PopA**
- **TP Trunk A**
- **Peroneal A**
- **P. TibA**
- **A. TibA**
- **Dors.Ped A**
- **C. Iliac V**
- **Ex. Iliac V**
- **Femoral V**
- **SaphV**
- **PopV**
- **TP Trunk V**
- **Sural V**
- **Soleal V**
- **Peronea V**
- **P. TibV**
- **A. TibV**
- **ACA**
- **MCA**
- **PCA**
- **AComA**
- **PComA**
- **BA**
- **IIA**
- **DFA**

- Ba V
- Brachial V
- IIV
- CFV
- SFV
- DFV
- SSV
- ASP
- BSP
- ICA/CCA (PS)

● Urology

- Testis A
- Testis V
- Epididymis A
- Epididymis A

● SmallParts

- STA
- ITA

● Obstetrics

- Umb A
- Duct Veno
- Placenta A
- MCA
- Fetal Ao
- Desc Aorta
- Ut A
- Ovarian A
- FHR (Doppler)
- Asc Aorta
- RVOT
- LVOT

● Emergency

- FHR

6 System setup

6.1 System Preset

● Region

- Hospital Info: Name, Address, Telephone, Fax, Hospital icon
- Language & Time:

→ Languages: English, Chinese, French, Russian, Spanish

→Time Zone

→Date & Time

→DateFormat: yyyy-MM-dd, MM-dd-yyyy dd-MM-yyyy

→Time Format: 24Hours, 12Hours

● General

- Patient information

→Patient Information: Name, DOB, Gender, Age, Hospital, ID, Operator

→Height and Weight unit: Metric, British

→Body surface area formula(BSA): Eastern, Western

- Exam Settings

→Status after exam ends: Scan, New Patient, Worklist

→Send after exam

- Sleep Mode

→ScreenSaver: Waiting 1,10,30,60 min

→Standby: Waiting 1,10,30,60 min

● Image

- Image Storage

→Cine lengths (s):Adjustable

CardiacCycle: 1~16

→Image Size: Image Area, Standard Area

→Video Output: PAL, NTSC

- Image Setting

→Transducer: 3C5PD, 3C5PB, 3C5PDS, 7L4PD, 7L4PB, 7L4PDS, 2P2MA, 3P2PA, 6E1PD, 6E1PDS, 6E1PB, 6C1PD, 4V4CDS

→Display Format: V2:3, V3:2, V3:1, H2:3, Full

→TI Style: TIB, TIC, TIS

→Freeze: Replay, Measure, Caliper

→Steer: C&PW, C/PW, Auto Invert

→Auto Invert

→Horizontal Ruler

→Panoramic Ruler

- **Apply**

- Measuring Cursor

→ Type: Number, Symbol

→Size: Large, Medium, Small

→Color (Active): Green, Yellow, Red, White

→Color (Inactive):Green, Yellow, Red, White

→Result Size: Large, Medium, Small

→Cardiac cycle: 1~8

→Delete the measurement results when deleting calipers

- Comment

→Font Size: Large, Medium, Small

→Arrow Size: Large, Medium, Small

→Automatically clear comments when unfreeze the image or switch the probe or exam mode

→Automatically clear the body mark when unfreeze the image

- Follicle

→Calculation method: Signal, Double, Three

- **OB**

- Fetal GA

- **Mean Sac Diam →Daya, Hellman**
- **OOD→ Jeanty**
- **TCD→Hill, Nicolaides**
- **CLAV→Yarkoni**
- **Tibia→ Jeanty**
- **Ulna→ Jeanty**
- **HUM→ Jeanty, ASUM**
- **THD→Hansmann**
- **FTA→Osaka**
- **TAD→CFEF**
- **OFD→Hansmann, Nicolaides, ASUM**
- **FL→Hadlock, Tokyo, Merz, Hansmann, Warda, Chitty, Osaka, Nicolaides, ASUM, Jeanty, Hohler, China**
- **AC→Hadlock, Jeanty, Merz, Chitty, ASUM, CFEF, Hansman**
- **HC→Hadlock, Jeanty, Hansmann, ChittyPL, Chitty_Derived, Nicolaides, ASUM, CFEF**
- **BPD→Hadlock, Tokyo, Jeanty, Kurtz, Hansmann, Merz, Rempen, ChittyOI, Osaka, China, Nicolaides, ASUM**
- **CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM, Jeanty, Nelson, China, RobinsonBMUS**
- **GS→Rempen, Tokyo, Hansmann, China**
- **EFW2→Hadlock, Tokyo**
- **EFW→Hadlock, Tokyo**
- **Result Windows:**

→Display EDD

→Display GA in the report

- Fetal Weight
  - FetalWeight
    →Hadlock (AC,FL)
    →Hadlock (AC,FL,BPD)
    →Hadlock (AC,FL,HC)
    →Hadlock (AC,FL,HC,BPD)
    →Shepard
    →Merz1
    →Merz2
    →Hansmann (BPD,THD)
    →Tokyo
    →Osaka (FL,BPD,FTA)
    →Campbell
  - FetalWeight2
    →Hadlock (AC,FL)
    →Hadlock (AC,FL,BPD)
    →Hadlock (AC,FL,HC)
    →Hadlock (AC,FL,HC,BPD)
    →Shepard
    →Merz1
    →Merz2
    →Hansmann (BPD,THD)
    →Tokyo
    →Osaka (FL,BPD,FTA)
    →Campbell
  - WeightUnit: METRIC, IMPERIAL, METRIC & IMPERIAL

- Fetal Weight Percentile
  - Formula: NULL, Hadlock, Brenner, William
  - Type: AUA/CUA, LMP&AUA/CUA, LMP

- Fetal Growth Curve
  - FL/HC→Hadlock
  - HC/AC→Campbell
  - AFI→Moore
  - UmbARI→JSUM
  - UmbAPI
  - MCARI→JSUM
  - MCAPI
  - CM→Nicolaides
  - TCD→Hill, Goldstein, Nicolaides
  - CLAV→Yarkoni
  - FIB→Merz, Jeanty
  - RAD→Merz, Jeanty
  - Tibia→Merz, Jeanty
  - Ulna→Merz, Jeanty
  - HUM→ ASUM, Jeanty, Merz
  - THD→Hansmann
  - FTA→Osaka
  - TAD→Merz, CFEF
  - APAD→Merz
  - OFD→Hansmann, Merz, Nicolaides, ASUM, Jeanty
  - FL→Hadlock, Tokyo, Merz, Hansmann, O_Brien, Warda, Chitty, Jeanty, Osaka, Nicolaides, ASUM, CFEF
  - AC→Hadlock, Jeanty, Merz, Chitty, Nicolaides, ASUM, CFEF, Hansman
  - HC→Hadlock, Merz, Hansmann, Jeanty, CFEF, ChittyPL, Chitty_Derived, Nicolaides, ASUM
  - BPD→Hadlock, Tokyo, Jeanty, Kurtz,

Sabbagha, Hansmann, Merz, Rempen, ChittyOI, Osaka, Nicolaides, ASUM, CFEF

- CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM
- GS→Rempen, Tokyo, Hansmann, Hellman
- EFW2→Hadlock, Hansmann, Tokyo, Brenner, William
- FEW→Hadlock, Hansmann, Tokyo, Brenner, William
- OB Graph:1*1, 1*2, 2*2,2*1

- Customize

- Button Type: Button, Foot Switch
- Button: Save1, Save2, Q1, Q2, Q3, Q4, Print
- Function Type
  - Output: Save Image, Save Cine
  - Print: Analog Print, Digital Print
  - Image Mode:
    - →Enter TDI Mode
    - →Enter Elasto Mode
    - →Enter Pano Mode
    - →Enter Anatomic M Mode
    - →Enter Dual Live Mode
    - →Enter Quad Mode
  - Other: Q Save, Freeze/Unfreeze, Ultrasound assistant
- Trackball Speed: Slow, Medium, Fast
- Button Brightness:0-9
- Button Volume: On/Off

- Admin

- Enable Admin: On/Off
  - Username, password, Add, Delete, Change Password

6.2 Exam Preset

- Available on All transducers
- Add New Applications
- Delete Applications
- Set up Default Clinical App of boot
- Adjustable position of application

6.3 Measure Preset

- Measure
  - Measurement items can be added and moved
  - 2D, M, Doppler
- Caliper
  - Measurement items can be added and moved
  - 2D, M, Doppler
- Report
  - Preset Report Template Name

6.4 Network Preset

- Local TCP/IP

-Wired Network

- DHCP, Static

IP Address, Subnet Mask, Gateway

- DICOM Local

-Localhost Dicom Service Property

- AE Title, Port, PDU

- Serve Setting
  - Device, IP
- Device list
  - Device, IP
  - Set Dicom Service, Delete
- DICOM Service
- Storage
- Print
- Worklist
- MPPS

- Storage Commitment
- Query/retrieve

6.5 Print Preset

- Print Service
  - Add
  - Delete
  - Rename
  - Add Printer
  - Default
- Printer Property

  Service Type, Service Name, Printer, Paper Orientation, Paper Size
- Printing Parameter

  Brightness, Contrast, Saturation, Rows, Columns

6.6 About & Maintenance

- System Info
- Detailed Info
- Option
- Other

7 Transducer Parameters

- Convex probe 3C5PD

  - Applications: ABD, OB, GYN, PedABD, Urology
  - Number of Elements:128
  - Harmonics frequency: 1.2-3.0, 2.6-4.5, 4.2-6.5MHz
  - Basic frequency: 3.4, 4.0, 5.0, 6.4MHz
  - Depth range: 40~420mm
- Linear array probe 7L4PD

  - Applications: Carotid, Thyroid, Nerve, Superficial, MSK, PedABD, Orthopedic, Vascular
  - Number of Elements: 128
  - Harmonics frequency: 4.2-6.3, 6.0-9.5, 8.5-15.0MHz
  - Basic frequency: 8.0, 9.4, 10.6, 12.2MHz
  - Depth range: 20-280mm
- Phased array probe 3P2PA

  - Applications: Adult Cardiac, Ped Cardiac, TCI, ABD
  - Number of Elements: 64
  - Harmonics frequency: 1.2-2.6, 2.4-3.8, 3.5-6.5MHz
  - Basic frequency: 3.0, 4.0, 5.0, 6.0MHz
  - Depth range: 30~320mm
- Volume probe 4V4CDS

  - Applications: ABD, OB, GYN
  - Number of Elements: 128
  - Harmonics frequency: 1.6-3.0, 2.8-4.5, 4.2-8.0MHz
  - Basic frequency: 5.0, 6.4, 7.2, 8.0MHz
  - Depth range: 40~420mm
- Trans-vaginal probe 6E1PD

  - Applications: OB/GYN, Prostate
  - Number of Elements: 128
  - Harmonics frequency: 3.2-5.5, 5.2-7.5, 6.8-12.0Hz
  - Basic frequency: 6.4, 7.2, 8.0, 10.0MHz
  - Depth range: 20~280mm
- Micro-convex Probe 6C1PD

  - Applications: Ped ABD, Ped Cardiac, TCI
  - Number of Elements: 128
  - Harmonics frequency: 3.5-6.3, 6.0-7.5, 6.8-12.0MHz

- Basic frequency: 6.4, 7.2, 8.0, 10.0MHz
- Depth range: 20~280mm

8 System Inputs & Outputs

- HDMI: 1
- PRINT: 1
- USB 2.0: 2
- USB 3.0: 1
- S-Video: 1
- Video: 1
- Network port: 1
- Power in: 1

9 Standard Package

- Main Unit
- Transducers selectable
- Power cord/grounding cable
- Fuse (2)
- User's Manual
- Coupling Gel (0.25L)

10 Optional Accessories

- Transducers
- Pedal Switch
- Thermal Printer
- Laser Printer
- Biopsy

11 Certificates

- Quality Standards
  - ISO9001
  - ISO13485

◆ NOTICE:

Not all features or specifications described in this document may be available in all transducers and all modes.

Zoncare reserves the right to make changes in specifications and features shown herein.

Zoncare Confidential

Version 1.0 Jan. 2022

BAWERS
MEDICAL EQUIPMENT

BWHUC-500

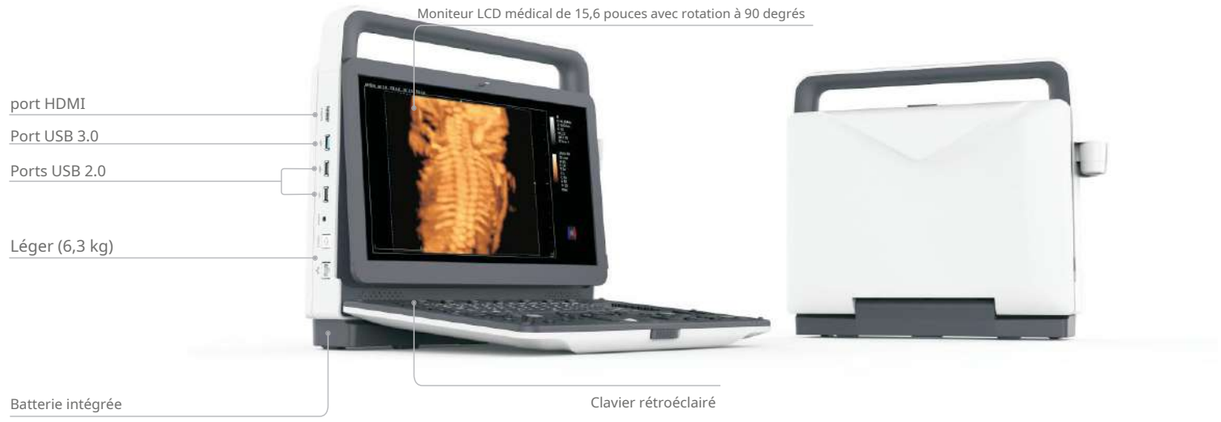
Système ultrasonique Doppler couleur portable

Plus mince | Plus nette | Plus forte



Conception ergonomique

Alliant un design ergonomique ingénieux à une taille compacte, le 650 offre une adaptabilité remarquable qui peut s'adapter à divers scénarios d'utilisation.



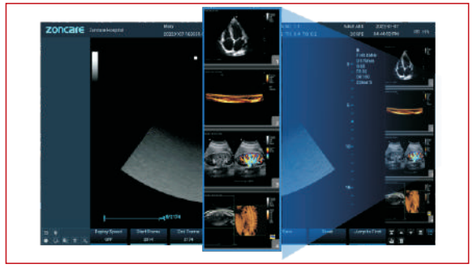


Transducteurs

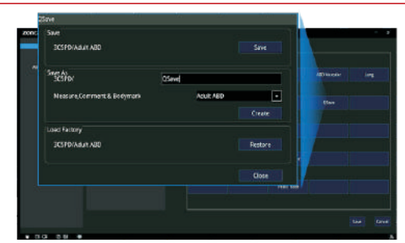


Flux de travail efficace et rapide

- Plusieurs boutons de programmation personnalisables. Technologie
- d'optimisation automatique en une seule touche. Flux de fonctionnement
- simplifié, commutation rapide et utilisation intuitive. Fonction de
- visualisation des préréglages personnalisés (QSave). Métadonnées et post-traitement d'image.
- DICOM 3.0
- Le port USB 3.0 facilite la transmission. Le presse-papiers avec vignettes
- permet de visualiser facilement les images et les vidéos.



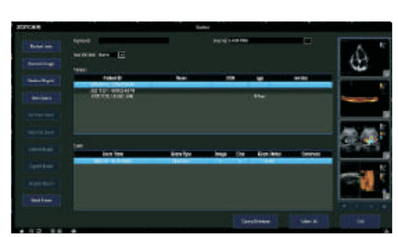
presse-papiers



Qsave



Gare

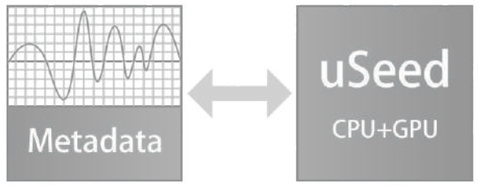


Boutons de recherche définis par l'utilisateur



Plateforme uSeed

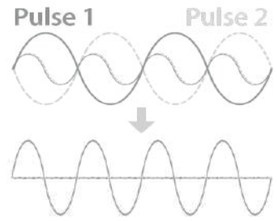
BWHUC-500 facilite un diagnostic précis grâce à la plateforme d'imagerie par formation de faisceaux basée sur les métadonnées uSeed. Cette plateforme innovante repose sur une technologie de calcul hétérogène CPU + GPU. Les images de la plateforme uSeed sont enregistrées sous forme de métadonnées pour un post-traitement ultérieur.



Technologies

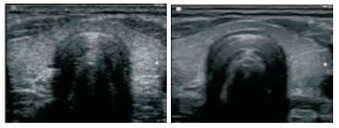
Imagerie harmonique inverse pulsée PIHI

PIHI réduit la distorsion générée par l'onde fondamentale et améliore considérablement le rapport signal/bruit.



Imagerie par réduction du speckle

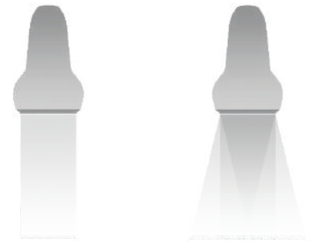
La technologie SRI réduit considérablement le bruit de fond indésirable, améliore les contours et l'écho des tissus pour un diagnostic clinique fiable.



SRI OFF SRI ON

Imagerie spatiale composée

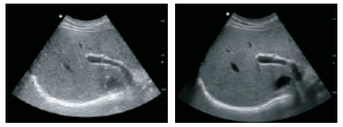
L'imagerie SCI offre une meilleure résolution de contraste, réduit le bruit de granularité et lisse l'image des tissus homogènes.



Imagerie composite de fréquence

Combiner la forte pénétration de la fréquence fondamentale et la haute résolution de la fréquence harmonique permet d'améliorer la résolution des détails et le contraste en champ proche et en champ lointain.

la meilleure qualité d'image.



FCI OFF FCI ON

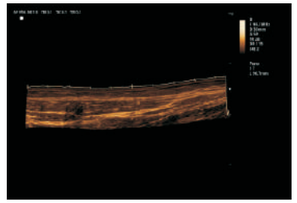


Applications cliniques complètes

BWHUC-500 offre des performances remarquables en imagerie abdominale, gynécologique (y compris endocavitaire), obstétricale, cardiologique, des petits organes (sein, testicules, thyroïde, etc.), urologique, musculosquelettique et vasculaire périphérique. La variété des modes d'imagerie proposés assure une application clinique complète.

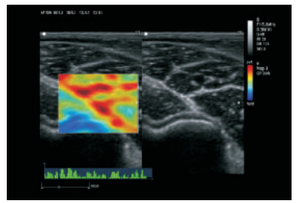
- B Steer, 3D/4D, ZPage, Zlive, PW, CW, AMM, CMM, imagerie panoramique, mode d'imagerie élastique, EFOV, TDI
- Fonction Auto IMT, Auto NT, Auto Trace, TSI, THI, SRI, SCI, FCI, fonction de biopsie

Radiologie



Imagerie panoramique

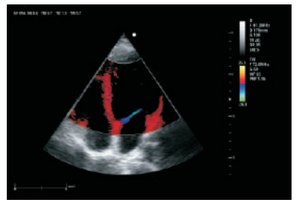
L'imagerie panoramique pourrait permettre d'obtenir une vue étendue et complète de la structure anatomique.



Imagerie élastique

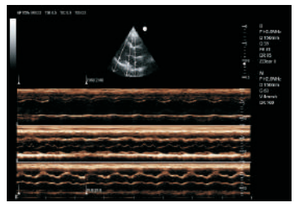
L'élastographie joue un rôle important dans le diagnostic clinique, notamment dans l'évaluation des lésions. L'imagerie par élastographie permet de déterminer la dureté des nodules et peut ainsi contribuer à différencier les lésions malignes des lésions bénignes.

Cardiologie



TDI

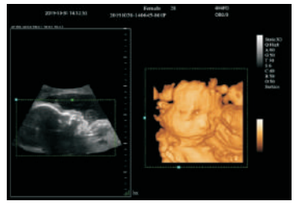
L'imagerie Doppler tissulaire (TDI) pourrait surveiller le mouvement myocardique local et évaluer ce mouvement de manière quantitative.



AMM

L'AMM permet de placer jusqu'à 3 lignes d'échantillonnage à n'importe quel angle ; l'épaisseur et l'épaississement de chaque paroi ventriculaire peuvent être observés avec précision, ce qui est également utile pour la mesure précise de la fraction d'éjection.

Obstétrique et gynécologie



3D/4D

Le mode 3D/4D avancé offre des images 3D/4D d'un réalisme saisissant.
Avec Zlive,
Le HUC 5 0 0 a la capacité de manipuler la lumière et l'ombre n'importe où dans les images.

BAWERS
MEDICAL EQUIPMENT

BWHUC-500

Portable Color Doppler Ultrasonic System

Slimmer I Clearer I Stronger



Ergonomic Design

Match the ingenious ergonomic design with the compact size, 650 has remarkable adaptability which can fit variable usage scenario.



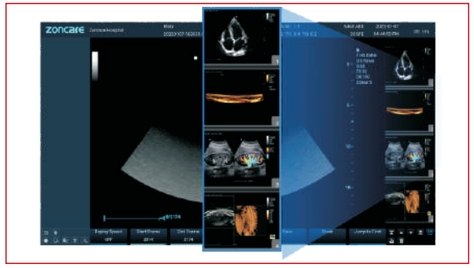


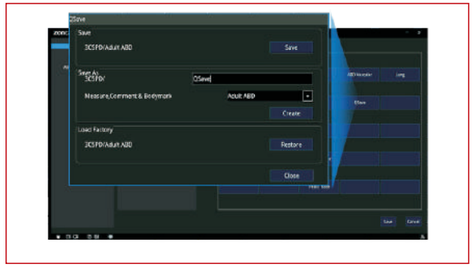
Transducers

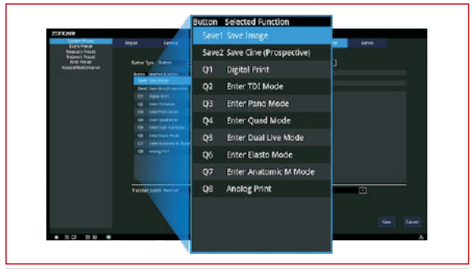


Efficient and Fast Workflow

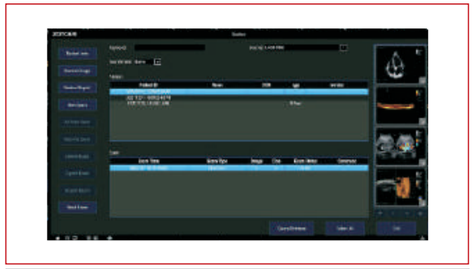
- Multiple user-defined programming buttons
- One-key Automatic Optimization Technology
- One-key operation flow, quick switching and easy to use
- Visualize user-defined presets function (QSave)
- Metadata and image postprocessing
- DICOM 3.0
- USB 3.0 port makes transmission more convenient
- Thumbnail clipboard - easy to review the images and videos


Clipboard


Qsave



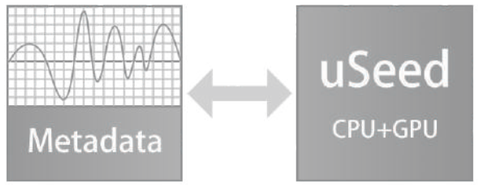
Station


User-defind Buttons



uSeed Platform

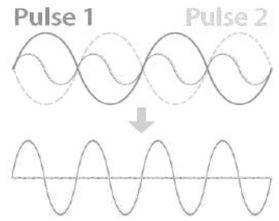
*BW*HUC-500 facilitates accurate diagnosis based on uSeed metadata beamforming imaging technology platform. This brand-new platform is developed by CPU + GPU heterogeneous computing technology. The images in uSeed platform are saved as metadata for postprocessing.



Technologies

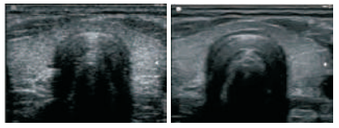
Pulse Inverse Harmonic Imaging PIHI

PIHI reduces the distortion generated by the fundamental wave, and greatly improve the signal-to-noise ratio.



Speckle Reduction Imaging

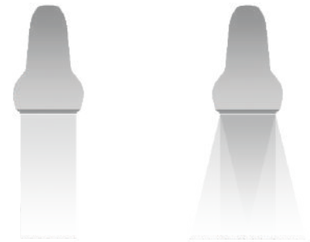
SRI technology significantly reduces the unwanted speckle, provides enhanced tissue boundary and tissue echo for confident clinical diagnosis.



SRI OFF SRI ON

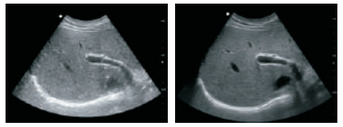
Spatial Compound Imaging

SCI provides better contrast resolution, reduces the speckle noise and smoothes the imaging of homogeneous tissue.



Frequency Composite Imaging

Combine the high penetration of the fundamental frequency and the high resolution of the harmonic frequency to improve the detail resolution and contrast resolution of the near field and the far field to provide the best image quality.



FCI OFF FCI ON

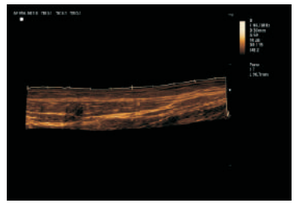


Comprehensive Clinical Applications

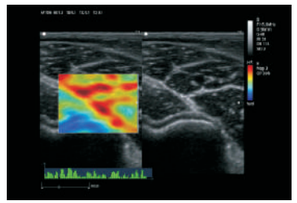
BWHUC-500 provides remarkable performance in Abdomen, Gynecology (including endocavity), Obstetric, Cardiology, Small parts (Breast, Testes, Thyroid, etc.), Urology, Musculoskeletal and Peripheral vascular. A variety of imaging modes brings a comprehensive clinical application.

- B Steer, 3D/4D, ZPage, Zlive, PW, CW, AMM, CMM, Panoramic Imaging, Elastic imaging mode, EFOV, TDI
- Auto IMT, Auto NT, Auto Trace, TSI, THI, SRI, SCI, FCI, Biopsy function

Radiology

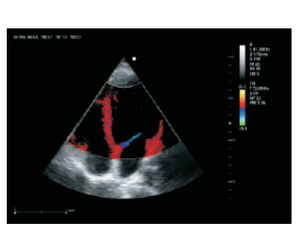


Panoramic Imaging
Panoramic Imaging could help to get extended and complete view of the anatomical structure.

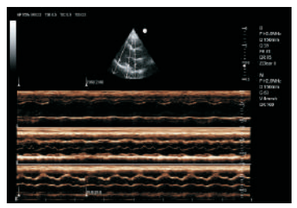


Elastic Imaging
Elastography plays an important role in clinical diagnosis, especially in lesions assessing. Elastography imaging could detect the hardness of nodule, therefore it may help to differentiate malignant from benign lesions.

Cardiology

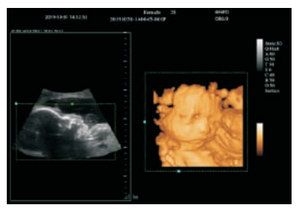


TDI
Tissue Doppler Imaging (TDI) could monitor local myocardial movement, and evaluate the movement quantitatively.



AMM
AMM allows placing up to 3 sample lines at any angles, the thickness and thickening of each ventricular wall could be observed accurately, which is also helpful for the accurate meas urement of ejection fraction.

Obstetrics and Gynecology



3D/4D
advanced 3D/4D mode delivers amazing lifelike 3D/4D images.
With Zlive,
H U C 5 0 0 has the ability to manipulate light and shadow anywhere in the images.

BAWERS

MEDICAL EQUIPMENT

BWHUC-770



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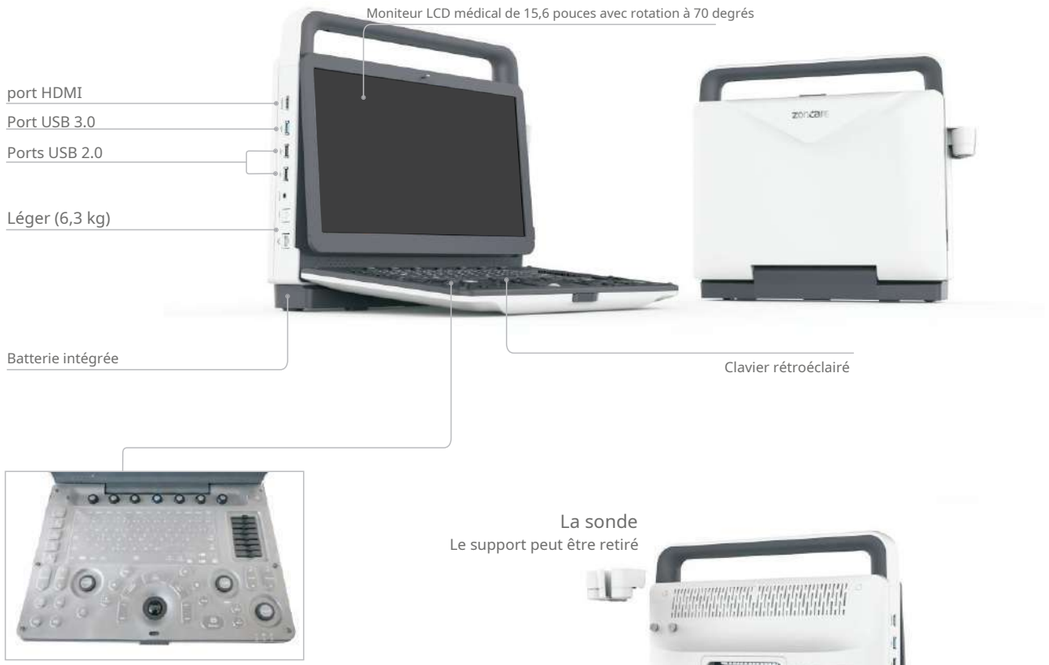

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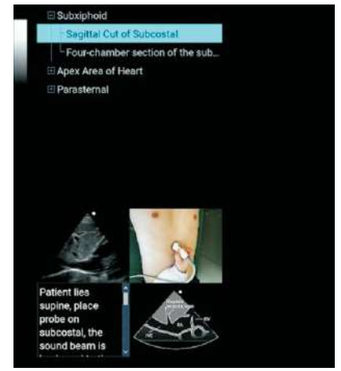
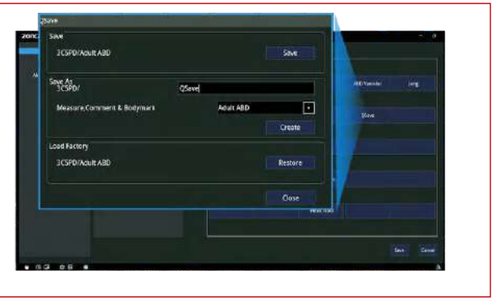




presse-papiers



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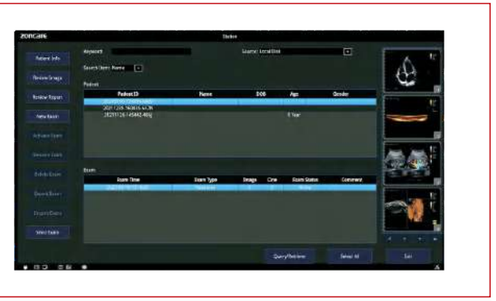

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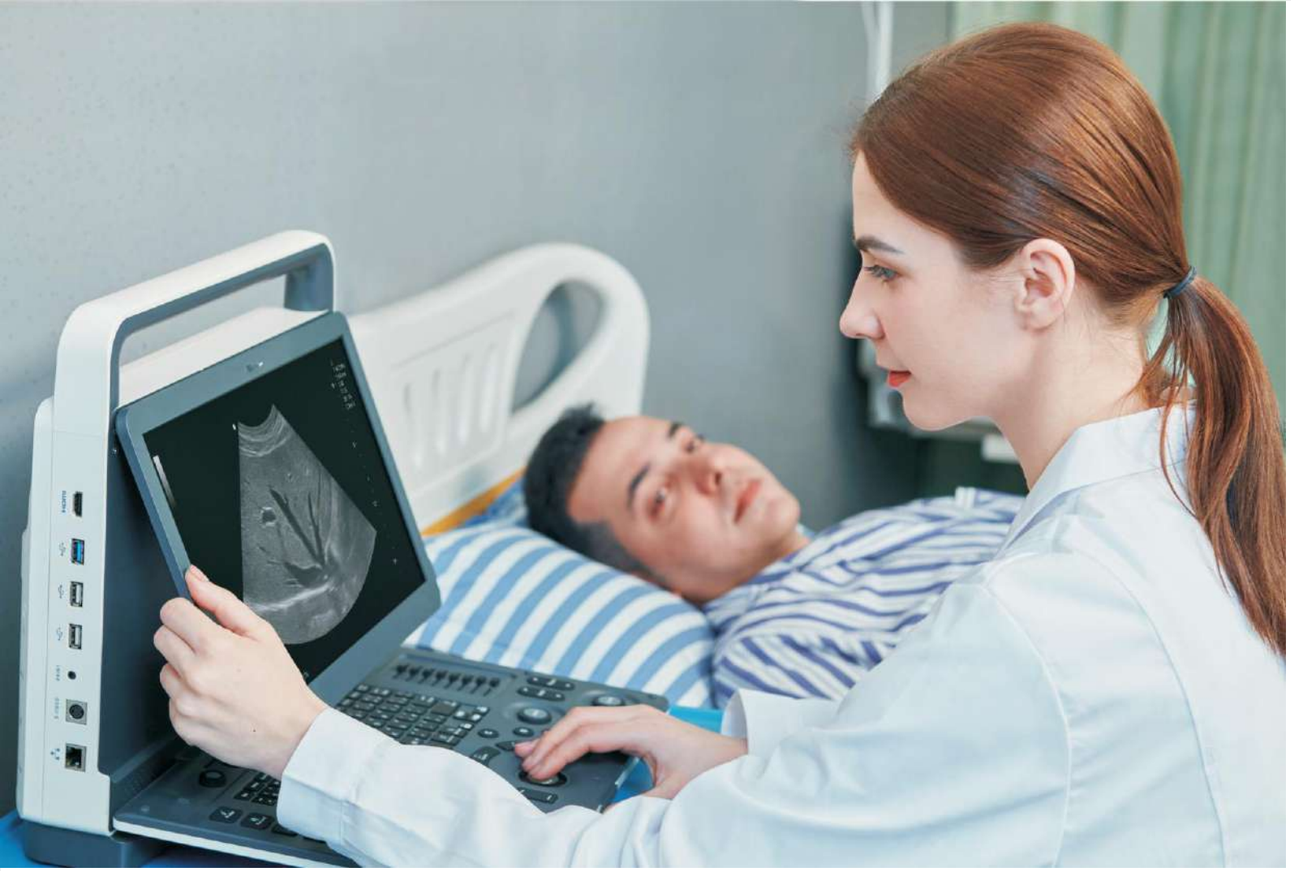

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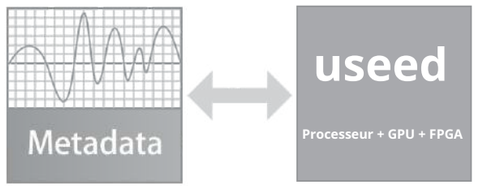

Technologies

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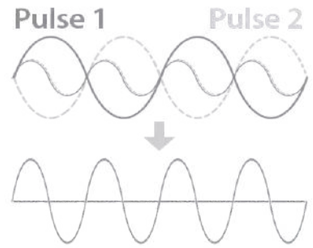

Imagerie par réduction du speckle

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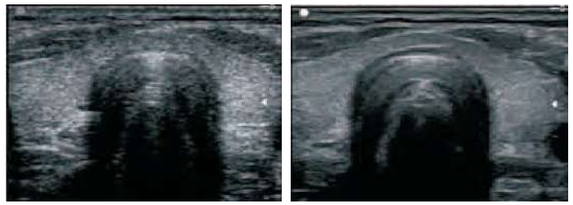

SRI OFF SRI ON

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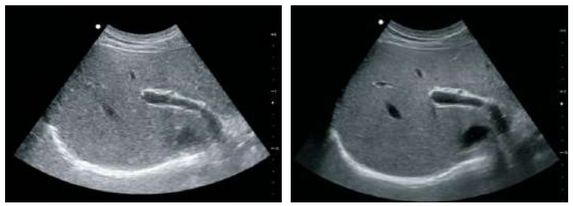

FCI OFF FCI ON

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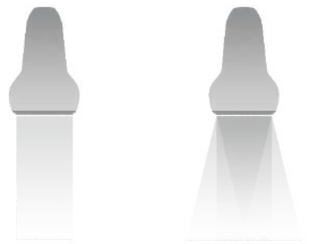
L'imagerie SCI offre une meilleure résolution de contraste, réduit le bruit de granularité et lisse l'image des tissus homogènes.



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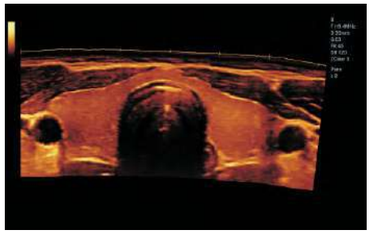

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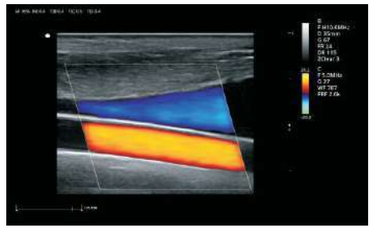
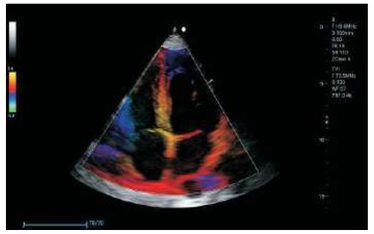


Carotide



Utérus



TDI



3D/4D

Radiologie

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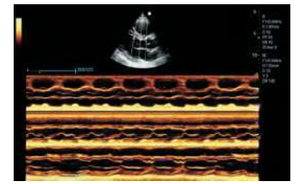

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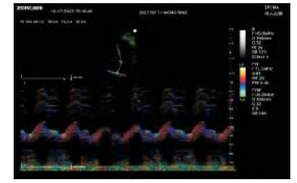

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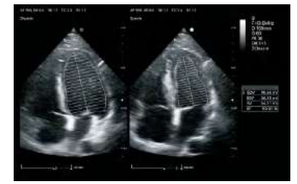

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BAWERS

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BWHUC-770



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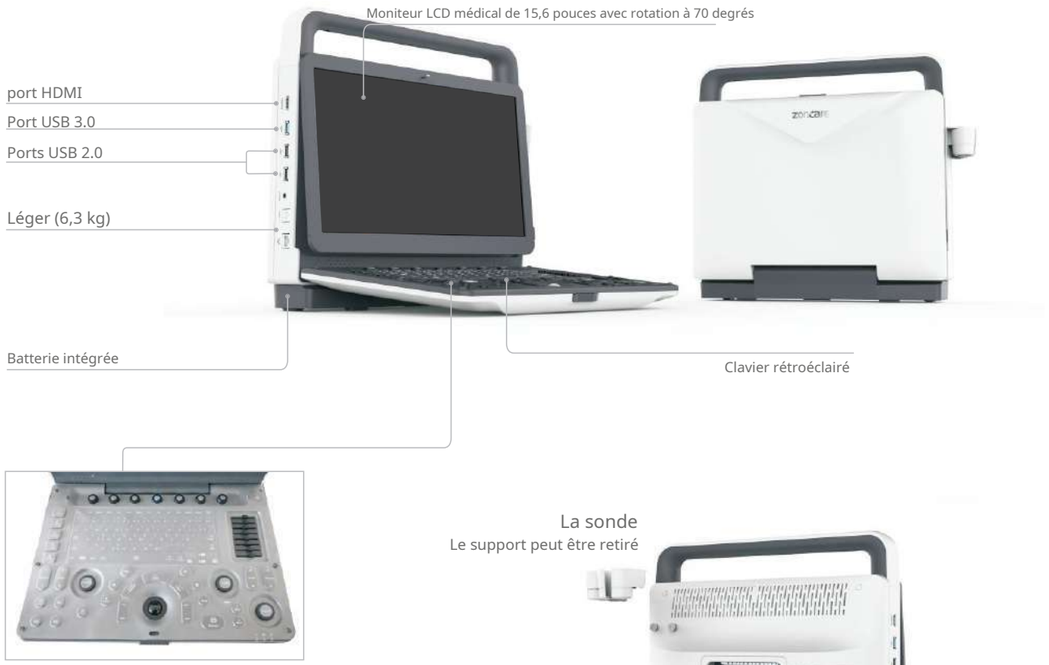

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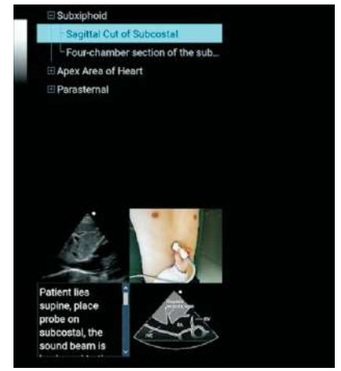



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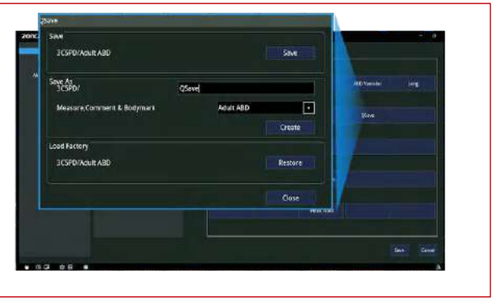

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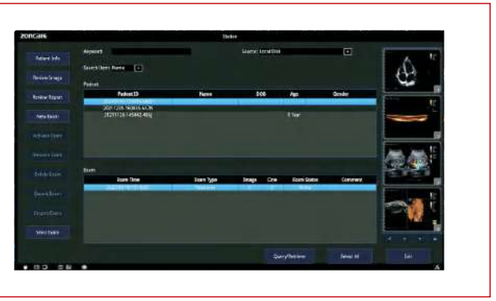

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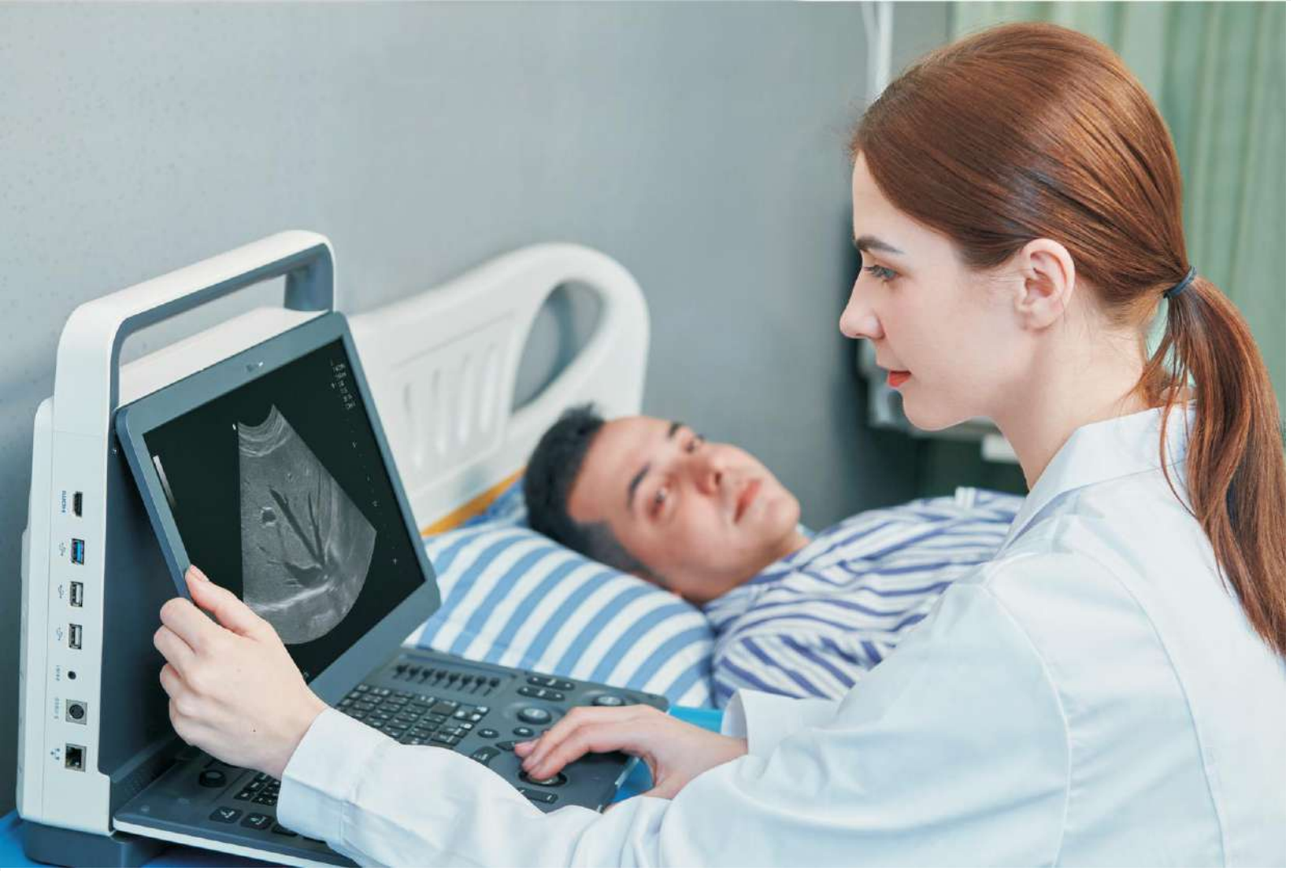

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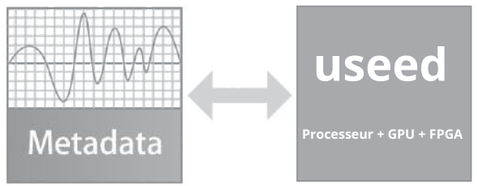

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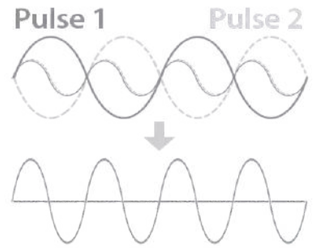

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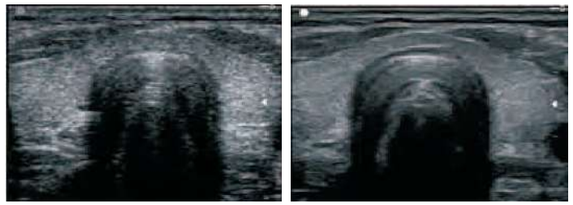

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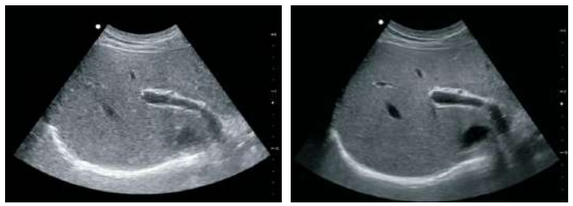

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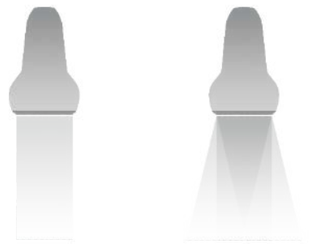

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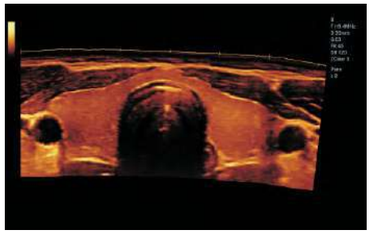

Panoramique



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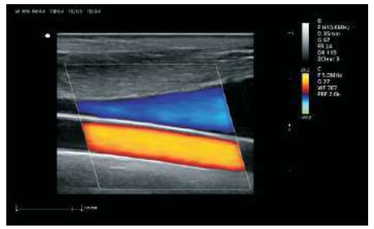

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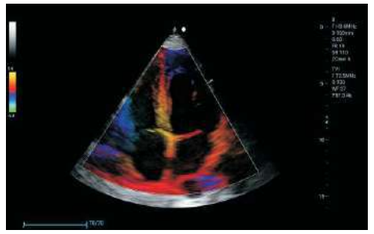

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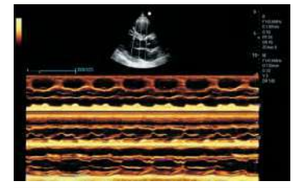

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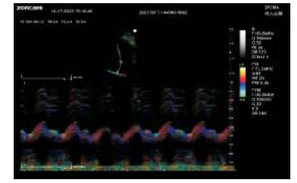

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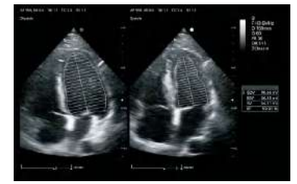

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BAWERS

MEDICAL EQUIPMENT

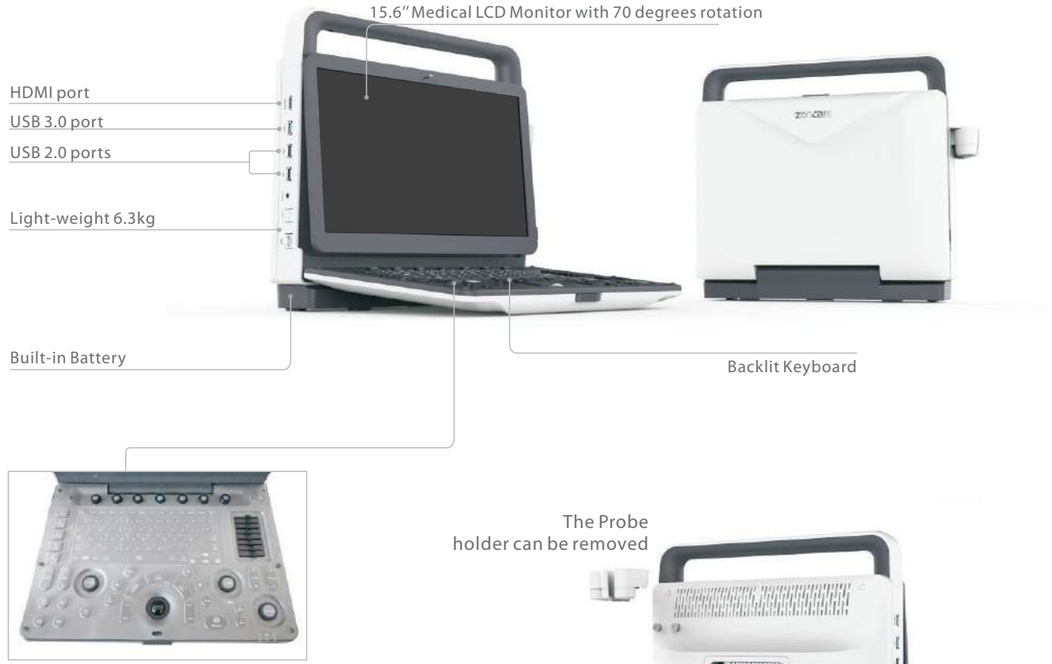
Portable Color Doppler Ultrasound
Diagnostic System

Master Choice on Portability



Ergonomic Design

Match the ingenious ergonomic design with the compact size, M70 has remarkable adaptability which can fit variable usage scenario.



Splash-resistant keyboard protection film
-Reliable cleaning and disinfection

The Probe holder can be removed



The battery can be removed

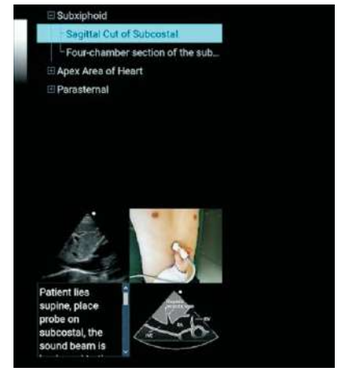
Various Probe Selection

With its wide range of probes, it can be used for a variety of clinical applications including Abdomen, Gynecology, Thyroid Urology, Vascular, Cardiology, Musculoskeletal, and Neurological intervention.



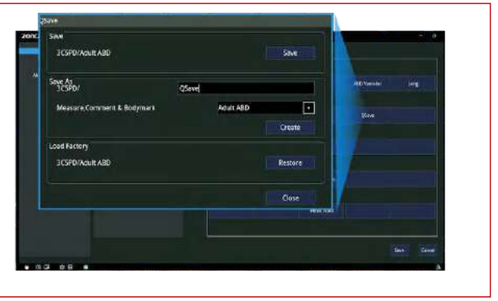
Efficient and Fast Workflow

- Multiple user-defined programming buttons
- One-key Automatic Optimization Technology
- One-key operation flow, quick switching and easy to use
- Visualize user-defined presets function (QSave)
- Metadata and image postprocessing
- DICOM 3.0
- USB 3.0 port, make transmission more convenient
- Thumbnail clipboard - easy to review the images and videos
- Ultrasound Assistance





Clipboard



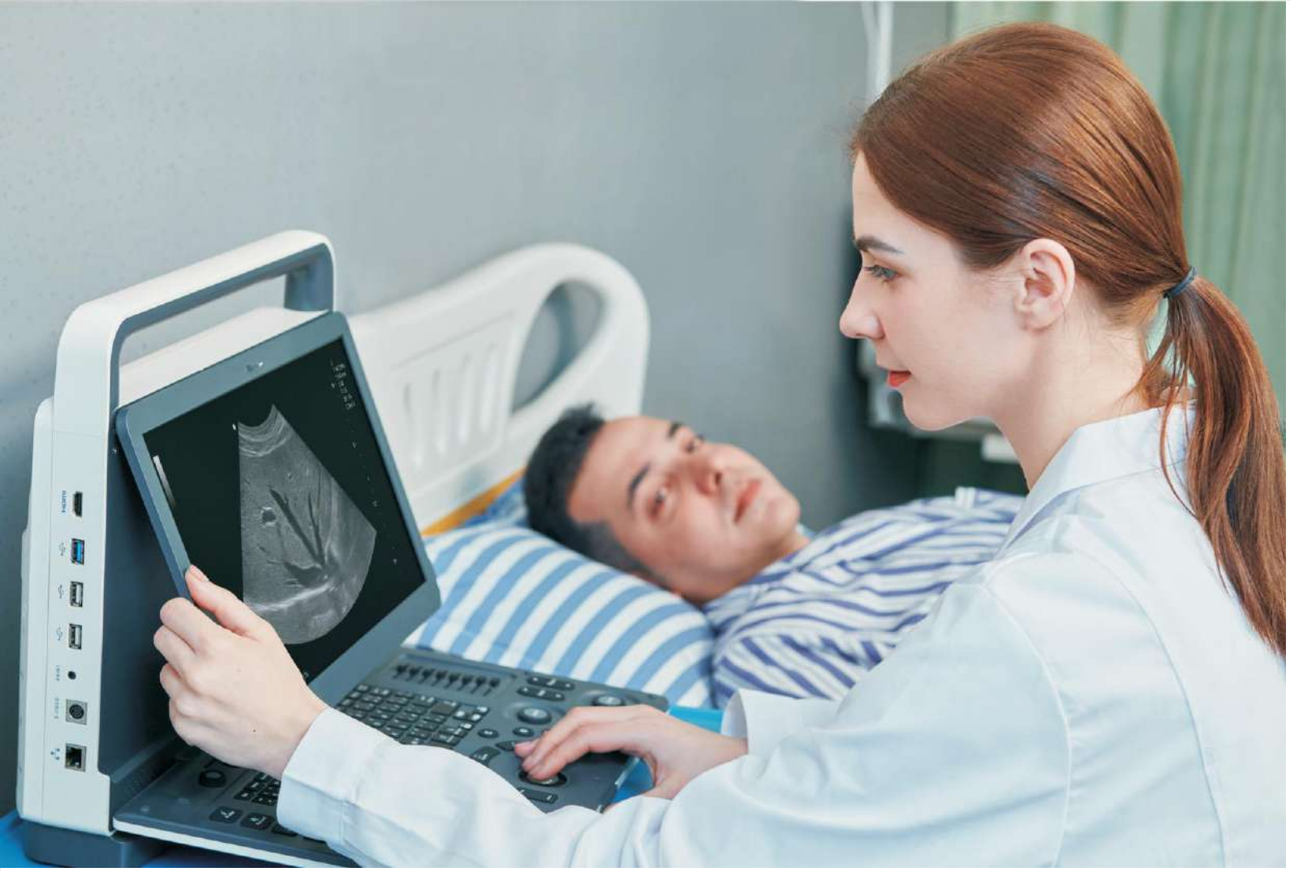
Qsave



Station

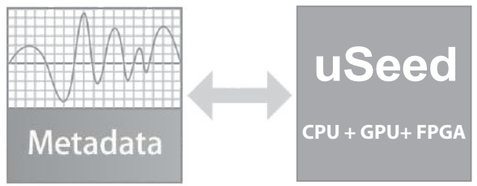


User-defind Buttons



uSeed Platform

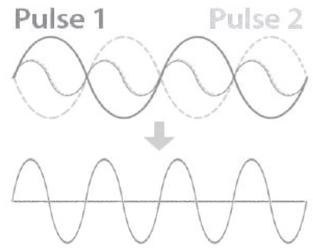
HUC-770 facilitates accurate diagnosis based on uSeed metadata beamforming imaging technology platform. This brand-new platform is developed by CPU + GPU+ FPGA heterogeneous computing technology. The images in uSeed platform are saved as metadata for postprocessing.



Technologies

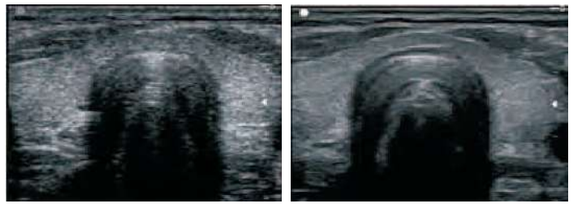
Pulse Inverse Harmonic Imaging PIHI

PIHI reduces the distortion generated by the fundamental wave, and greatly improve the signal-to-noise ratio.



Speckle Reduction Imaging

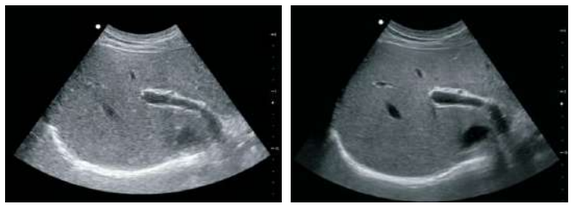
SRI technology significantly reduces the unwanted speckle, provides enhanced tissue boundary and tissue echo for confident clinical diagnosis.



SRI OFF SRI ON

Frequency Composite Imaging

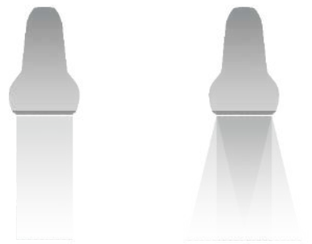
Combine the high penetration of the fundamental frequency and the high resolution of the harmonic frequency to improve the detail resolution and contrast resolution of the near field and the far field to provide the best image quality.



FCI OFF FCI ON

Spatial Compound Imaging

SCI provides better contrast resolution, reduces the speckle noise and smoothes the imaging of homogeneous tissue.

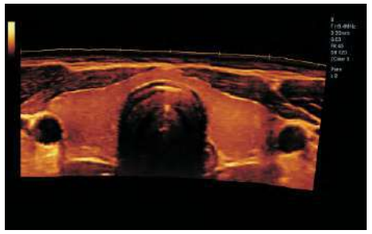


Comprehensive Clinical Applications

HUC-770 provides remarkable performance in Abdomen, Gynecology (including endocavity), Obstetric, Cardiology, Small parts (Breast, Testes, Thyroid, etc.), Urology, Musculoskeletal and Peripheral vascular. A variety of imaging modes brings a comprehensive clinical application.

- B Steer,TSI,THI, SRI,SCI,FCI,Biopsy Function
- Auto IMT, Auto Trace,Panoramic Imaging,Elastic Imaging,EFOV
- Auto EF, PW,CW,TDI,AMM, Curved AMM,CMM
- Auto OB ,Auto NT,3D/4D,ZPage,ZLive,Auto Follicle

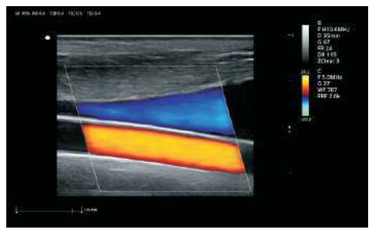




Panoramic



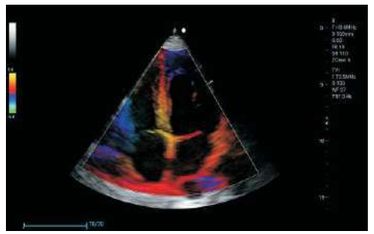
Liver



Carotid



Uterus



TDI



3D/4D

Radiology

HR Flow
Provides clear visualization of blood flow in the vascular system, aiding in precise diagnosis of cardiovascular diseases by enhancing resolution and contrast, and be applicable to both large and microvessels.

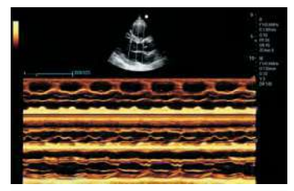


Intelligent Blood Flow Tracking
Intelligently identify the location of blood vessels .Continuous tracking of blood flow, and support real-time optimization to achieve better blood flow optimization.

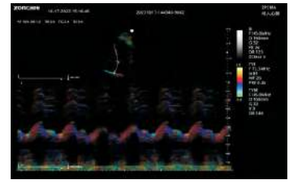


Cardiology

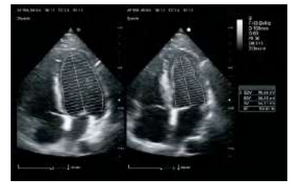
AMM
AMM allows up to three sampling lines to be placed at any Angle, facilitating multi-directional observation of ventricular wall movement.



Curved AMM
Curved AMM can accurately display the relationship between spatial and temporal distribution of myocardium, which brings a new method for analyzing multi-segment myocardium motion.



Auto EF
To recognize myocardial intima during the diastolic and systolic period and calculate the ejection fraction automatically.Reduce the operation steps of inspectors and improve work efficiency.



Obstetrics and Gynecology

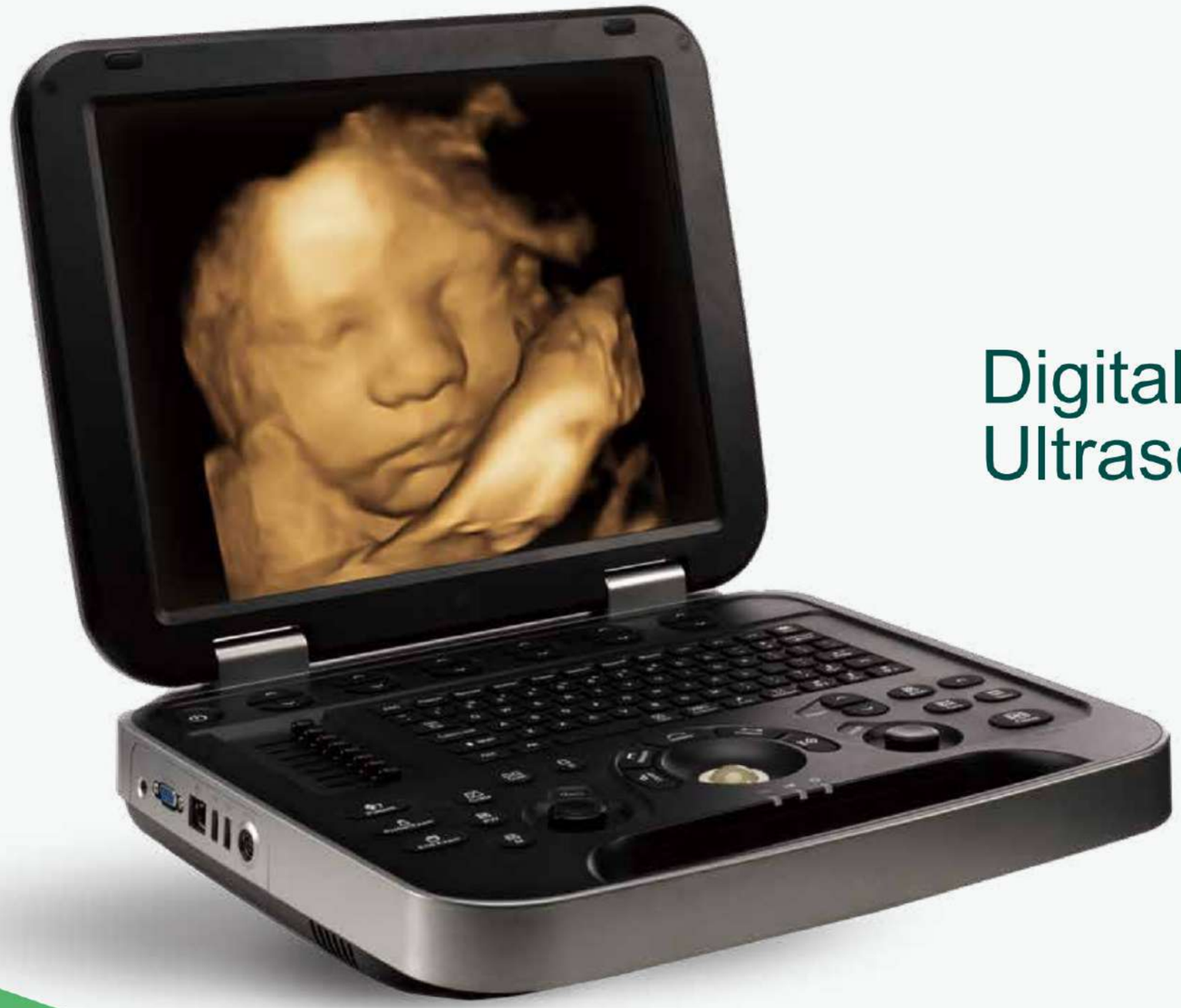
Auto OB
Automatic identification of obstetric standard sections and automatic measure BPD\HC\AC\FL.etc



Auto Follicle
Automatic identify and calculate the size of follicles.



BAWERS
MEDICAL EQUIPMENT



Digital Diagnostic Ultrasound System

BWLP-51-4D

Advanced Imaging Boosts Diagnostic Confidence.

B, B|B, 4B, B|M, M

CF、PDI、DPI、PW

B+CF/PDI/DPDI+PW (real-time synchronization)

Color M mode

Anatomical M mode

3D/4D mode

Tissue harmonic imaging (THI),

Pulsed inverse harmonic imaging (iTHI)

Tissue specific imaging (TSI)

Puncture enhancement (optional)

Wide-field imaging (optional)

Contrast imaging (optional)



Optimized Parameters Enhance Diagnostic Accuracy

128 elements,64 channels

15" high definition LCD, tilt display

Quick Save One push image transfer to local or directly to USB

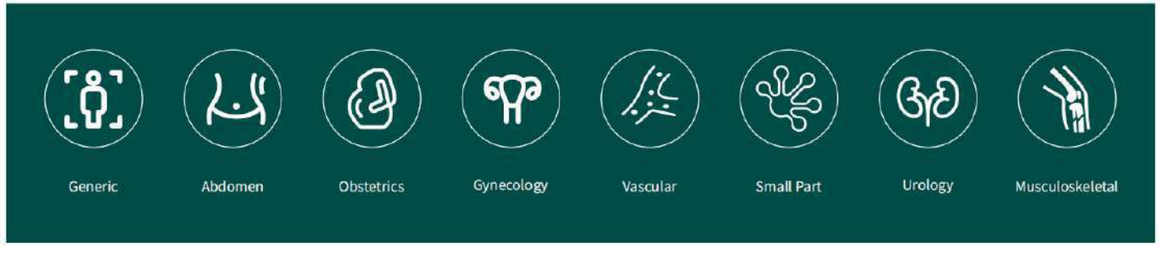
Stored images can be edited and measured again

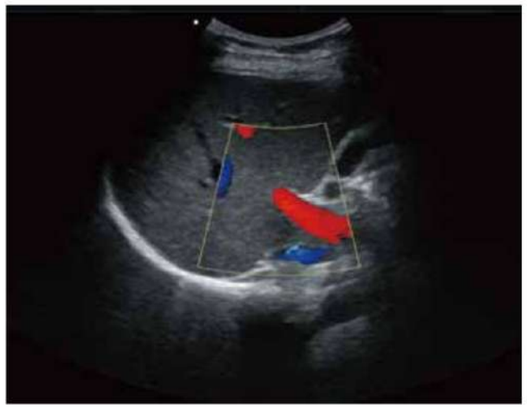
Picture-in-picture, partial zoom function

POptI™ Auto Optimization: single button image optimization

PStation™: clipboard, onboard reporting

IMT: auto-measurement of carotid intimae-thickness

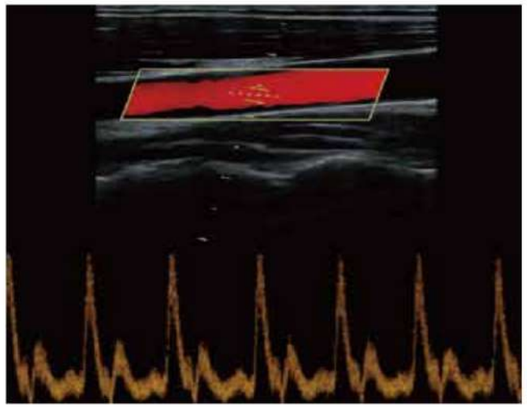




Liver flow



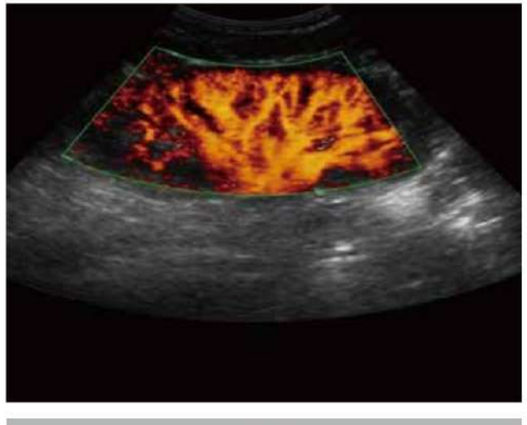
Pancreas



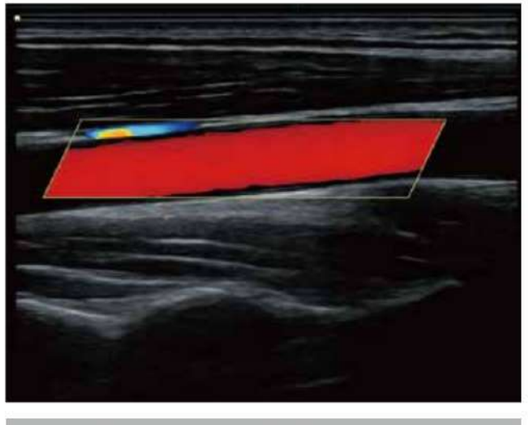
Carotid B+C+PW mode



Liver



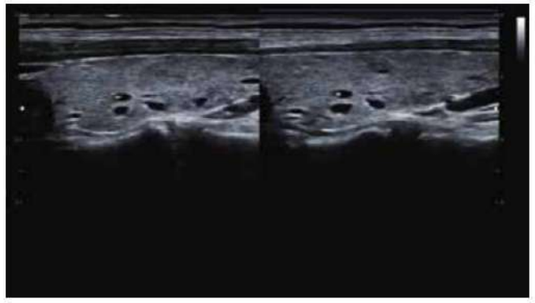
Kidney PDI mode



Carotid CF mode

TSI

TSI's tissue-specific imaging function sets dedicated sound velocity matching for different examination parts, such as muscles, liquids, fats, etc., to improve the diagnostic value of obese patients or special diagnosis parts, making the ultrasound image layer clearer and the particles finer. , the resolution is better.



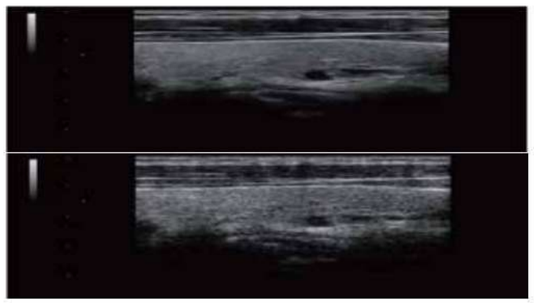
PureSight™ Imaging Technology

Our PureSight™ technology reduces speckle artifacts, improves smoothness along preferred edge directions, and maintains consistent local average gray levels. This results in clearer and more visually appealing images, enhancing diagnostic confidence.



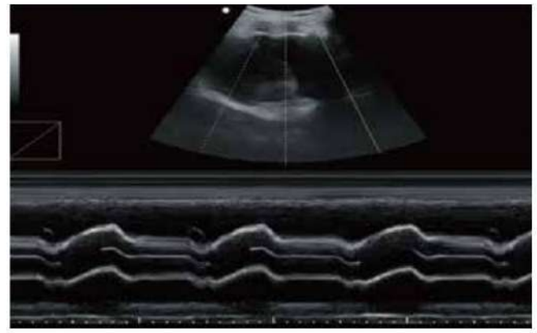
PrismX™ Spatial Composite Imaging

By employing PrismX™ spatial composite imaging technology, our system enhances contrast, fine resolution, and spatial resolution. It optimizes tissue and pathological interface echo continuity while minimizing artifacts such as specular reflection, speckle, scattering, and attenuation, ensuring superior image clarity.



Anatomic M-mode echocardiography

Anatomic M-type echocardiography can also be used to diagnose complex heart diseases, such as congenital heart disease, valvular heart disease, etc. Through detailed observation and analysis of the heart structure, doctors can more accurately judge the type and extent of the disease and develop a more appropriate treatment plan for patients.



PanoramaVision™ Extended Field Imaging

PanoramaVision™ technology captures a series of two-dimensional sectional images, which are reconstructed into an ultra-wide sectional image with a continuous field of view. This enables precise measurement of organ size and lesions, while providing a comprehensive view of the lesion's scope, internal echo, location, size, and adjacent tissues.





BWM30

Portable Color Doppler Ultrasonic Diagnostic System

Datasheet



BWM30

Portable Color Doppler Ultrasonic Diagnostic System

1 System Overview

1.1 Clinical Applications

- Abdomen
- Obstetrics
- Gynecology
- Urology
- Cardiology
- Pediatric
- Small Parts
- Blood Vessel
- Superficial
- Orthopedic
- MSK
- Nerve
- Custom

1.2 Transducer Types

- Convex Transducer
- Linear array Transducer
- Trans-vaginal Transducer
- Micro-convex Transducer
- Phased array Transducer
- 4D volume Transducer

1.3 Imaging modes

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- Anatomic M mode
- Panoramic
- Color panoramic
- Trapezoidal (Linear transducer)
- Extended imaging (Efov)
- CW -Mode
- TDI (TVI, TVD, TVM, TEI)
- 3D/4D Mode

1.4 Standard features

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- CW Mode
- Anatomic M mode
- Panoramic
- Color panoramic
- Trapezoidal (Linear transducer)
- Extended imaging (Efov)
- Tissue Specific Imaging (TSI)
- Tissue Harmonic Imaging (THI)
- Speckle Reduction Imaging (SRI)
- Spatial Composite Imaging (SCI)
- Frequency Composite Imaging (FCI)
- B/D Chromatic Imaging
- Pan Zoom
- Local Zoom
- Auto Optimization

- Image Rotation
- Auto Calculate
- Auto IMT
- Archive management
- Raw data
- Multiple pregnancies
- HR Flow
- Biopsy function
- Velocity tag
- HPRF
- Imaging postprocessing
- Imaging preprocessing
- 15.6-inch monitor
- Elastic imaging
- TDI（TVI,TEI,TVM, TVD）
- Static 3D
- 4D Module
- Laser/thermal printer
- Foot Switch
- Puncture
- DICOM 3.0

1.5 Storage Format

- Image: RAW, JPG/AVI, DCM, BMP/AVI, TIFF/AVI
- Report: PDF

2 Physical Specification

2.1 Dimension and weight

- Width: approx. 380mm
- Height: approx. 361mm
- Thickness: approx.131mm
- Net Weight: approx. 6.3kg (without battery)

2.2 Monitor

- 15.6-inch high resolution color display screen
- Resolution: 1920*1080
- Tilt angle range 0-70° (U/D)

2.4 Transducer ports and holders

- 3 activated Transducer ports
- Removable Transducer holders

2.5 Electrical power

- AC adapter Input
  - Voltage: 100-240V~
  - Frequency: 50/60Hz
  - Output Voltage: 19V±1
  - Output electric current: 5.8A
- Lithium Battery
  - Battery Capacity: 10000mA
  - Output Voltage: 14.4V

2.6 Operation Environment

- Ambient temperature: 5℃~+40℃
- Relative humidity: 25%~85%
- Atmospheric pressure: 70kpa ~ 106kpa

2.7 Storage &Transport Environment

- Ambient temperature: -20℃~+55℃
- Relative humidity: 10%~95%
- Atmospheric pressure: 50kpa-106kpa

2.8. Main body

- 500G HDD
- Operating system -- Linux

3 User Interface

3.1 Monitor information

- Common info:
  - Logo
  - Hospital name
  - Display Parameters
  - System date &Time
  - Clinical application

- Transducer type
- Exam mode
- Patient Name, Age, Gender
- Transducer mark
- Focus position
- Parallel scale & Vertical scale
- Freeze mark
- TGC Curve
- Acoustic power
- Volume histogram
- Gray bar/ Color bar
- Recycle bin icon

3.3 Control panel

- Power On/Off
- Imaging Mode buttons
  - B, C, PW, M, Quad,3D/4D, PDI, CW, TDI, ECG, Biopsy
- Parameter shortcut keys
  - Depth
  - Focus position
  - Angle/steer
  - Auto
  - Zoom
  - Gain
- User-defined programming key
  - Q1, Q2, Q3, Q4, Save 1, Save 2, Print
- Freeze button
- Function
  - Measure
  - Caliper
  - Dual
  - Quad
  - Update
  - Text
  - Body Mark
  - Arrow
  - Cursor
  - Clean
  - Print
  - Transducer
  - Patient
  - Report
  - Review
  - End Exam
  - Help
  - Station
  - Setup
  - QSave
- 8-segment TGC control
- Trackball
- Keyboard

3.4 System boot-up

- Boot-up in about 90s
- Shut down in about 5s
- Standby time: 1, 10,30, 60 min
- Screen saver: 1, 10,30, 60 min

3.5 Comments & Arrow

- Arrow position adjustable
- Arrow size adjustable
- Arrow direction adjustable
- Comments position adjustable
- Comments fontsize adjustable
- User-defined adding and deleting

3.6 Body Marks

- More than 200 body-marks
- User-defined adding and deleting

- Drag to change the position

4 Imaging Parameters

4.1 B mode

- Display Format: B (Single), 2B (Dual), 4B (Quad)
- U/D Reverse: On, Off
- L/R Reverse: On, Off
- Dual Live
- Depth: Depend on different transducer
- Frequency: Depend on different transducers
- THI:
  →Tissue Harmonic Imaging
  →Available on all transducers
- B steer:
  →For linear transducer
  →Left 4 steps adjustable
  →Right 4 steps adjustable
- Gain: 0~100
- Pan Zoom: Z0.8, Z0.9,Z1.0, Z1.1, Z1.2, Z1.4,Z1.6, Z1.8, Z2.0，Z3.0，Z4.0，Z5.0, Z6.0, Z7.0, Z 8.0, Z9.0, Z10.0
- Horizontal Ruler: Hide/Display
- Center Line: Convex transducer
- Image Quality: Pen, Gen, Res, HPen, HPen-Gen, HGen, HRes
- Dyn Ra (Dynamic range): 30-180, 5/step
- ZClear: 0~6, 1/step
- Persistence: 0~6, 1/step
- Gray Map: 1~10, 1/step
- Chrome:0~8, 1/step
- A.Power: 1~20, 1/step
- Rotation: 0°, 90°, 180°, 270°
- Focus Number: Up to 8
- FCI (Frequency Composite Imaging):
  →0 or 1
- TSI: General, Muscle, Fat, Fluid
- Field of View: 1~8, 1/step
- SCI (Spatial Composite Imaging）：0~7, 1/step
- Line Density: L, H
- EFOV:
  →0, 1, 2 Adjustable
  →Extended FOV available on Convex, Linear, Trans-vaginal, 4D volume

● M mode

- Display Format
  →V2:3, V3:2, V3:1, H2:3, Full
- Dyn Ra.: 30~180, 5/step
- Gray Map: 1~10, 1/step
- Speed: 1~6, 6 steps adjustable
- Chrome: 0~8, 1/step
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)
- Start Time (Freeze)
- End Time (Freeze)

● C mode

- ROI Position: trackball
- ROI Size: trackball & set key
- ROI Steer: Linear transducer
  →Left 4 steps adjustable
  →Right 4 steps adjustable
- Dual Live: B/C, B/PDI, B/DPDI

BWM30

Portable Color Doppler Ultrasonic Diagnostic System

- Quad: Color 4B
- Image Quality: Pen, Gen, Res
- Wall Filter: 0~7, 1/step
- Sensitivity: 1~4, 1/step
- Persistence: 0~5, 1/step
- Smooth: 0~5, 1/step
- Line Density: L, H
- Flow State: L M H
- HR Flow
- Priority: 0~100, 1/step
- Invert
- Velocity Tag: On, Off
- B/C Align
- Color hide: On, Off
- Color Map: V0~VV9, 20 steps
- PRF: 0.2~7.9KHz

● PW mode

- Image Quality: Pen, Gen, Res
- Wall Filter: 0~7, 1/step
- Invert: On, Off
- Quick Angle: 0°, +60°, -60°
- Speed:1~6, 1/step
- Auto Calc Cycle: 1, 2, 3
- Auto Invert: On, Off
- Trace Area: Above, Below, All
- SV: 0.5~40mm, 0.5mm/step
- HPRF: ON/OFF
- Volume: 0-100, 1/step
- Dyn Ra.: 24~72, 2/step
- Multi sync: ON/OFF
- Auto Calc Para

→AT, D/S, DT, ED, Flow (TAMAX), VTI, Flow (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

→User-defined selection

- Chrome: 0~8, 1/step
- Gray Map: 1~10, 1/step
- T/F Resolution: 1~5, 1/step
- Display Format:

→V2:3, V3:2, V3:1, H2:3, Full

- PRF: 0.5KHz~12.0KHz
- Auto calc cycle: 1, 2, 3 Adjustable
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)
- Select Start (Freeze)
- Select End (Freeze)

● CW Mode

- Image Quality: Gen
- Dyn Ra.: 24-72, 2/step
- PRF: 0.5KHz~120.0KHz
- Speed: 1-6
- Angle: -80°~80°, 1° /step
- Gray Map: 1-10
- Wall Filter: 0-7, 1/step
- Chroma: 0-8
- T/F Resolution: 1-5, 1/step
- Invert: On/Off
- Volume: 0-100, 1/step
- Display Format: Full, V2:3, V3:2, V3:1, H2:3
- baseline:17 step
- Auto Spectrum
- Auto Calc: On/Off
- Auto Calc Para:

→Automatic spectrum calculation results

AT, D/S, DT, ED, Flow (MAX), VTI, Flow (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

→User-defined selection

- Static 3D&4D
  - Prepare parameters
    - →Autoface: On, Off
    - →Trim Used
    - →Angle: 10°~70°， 5°/step
    - →Quality: Lowest, Low, Medium High, Highest
    - →Angle: 10°~70°， 5°/step
    - →Render mode: Surface，Depth，Max，Min，Xray，ZLive, Silhouette
  - Update parameters
    - →Display Format: Single, Dual, Quad, LeftQuad
    - →Render mode: Surface，Depth，Max，Min，Xray，ZLive, Silhouette
    - →Orientation: 0°, 90°, 180°, 270°
    - →RotateX: Adjustable
    - →RotateY: Adjustable
    - →RotateZ: Adjustable
    - →Threshold: 1-100, 1/step
    - →Opacity: 0~100, 5/step
    - →Contrast:0~100, 1/step
    - →Brightness: 0~100, 1/step
    - →Smooth: 0~12, 1/step
    - →RefSection: A, B, C
    - →VR Status: VR, MPR, MPR
    - →Reset Ori
    - →Reset All
    - →Sync
    - →Chrome:0~8, 1/step
    - →Image Enh. : 0~10
    - →Movelight
    - →Reset Trim
    - →Invert
    - →View Direction: UP/Down, Down/UP, Left/Right, Right/Left, Front/Back, Back/Front
    - →Reverse View
    - →Gray Map
  - Image Edit parameters
    - →Edit Mode: Box in, Box Out, Contour In, Contour Out, Polygon In, Polygon Out
    - →Undo
    - →Undo All
    - →Trim Depth: 0-100
  - Zpage
    - →Display Format: 2×2, 3×3, 4×4, 5×5
    - →Distance: 0.1-20, 0.1/step
    - →RefSection: A, B, C
    - →RotateX: Adjustable
    - →RotateY: Adjustable
    - →RotateZ: Adjustable
    - →Slices Full
    - →Slice Pos: -7~8, 1/step
    - →Orentation: Horizontal, Verrical
  - Layout parameters
    - →Display Format: Single, Quad
    - →3D_Niche Directior: Front Back, Back Front
    - →RefSection: A/B/C/Niche
    - →Reset Ori

- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)
- Start Frame (Freeze)
- End Frame (Freeze)

● Elastic

- Opacity: 0~10, 1/step
- Invert
- Sync
- Persistence
- Smooth: 0~10, 1/step
- Map: 1~7, 1/step
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)

● Anatomic M

- Show A
- Show B
- Show C
- Speed :1~6, 1/step
- Gray Map: 1-10, 1/step
- Chrome: 0~8, 1/step
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)

5 Measurement

5.1 2D mode

● General

- Distance (2D)
- Trace
- Ellipse
- Angle
- Volume
- Ratio (D)
- Ratio (Trace)
- Ratio (Ellipse)
- Spline
- Cross
- Double Dist
- Trace Len
- Trace Len (Spline)
- Parallel
- B-Profile
- B-Hist (Ellipse)
- B-Hist (Trace)
- B-Hist (Spline)
- B-Hist (Rectangle)
- Depth
- Color Vel
- Volume (Ellipse)
- Volume (E+Dist)
- Ratio (Spline)
- Ratio (Cross)
- Strain Ratio
- IMT(Near)
- IMT(Far)
- Vol Flow

→Vas Area, TAMEAN, TAMAX

● Abdomen

- Liver
- Renal L

- Renal H
- Renal W
- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- CBD
- Portal V Diam
- CHD
- GB L
- GB H
- GB wall th
- Panc duct
- Panc head
- Panc body
- Panc tail
- Spleen
- Aorta Diam
- Aorta Bif
- Iliac Diam
- Bladder
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Ureter
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol

● Gynecology

- UT L
- UT H
- UT W
- Cervix L
- Cervix H
- Cervix W
- Endo
- Ovary L
- Ovary H
- Ovary W
- Follicle1 L
- Follicle1 H
- Follicle1 W
- Follicle2 L
- Follicle2 H
- Follicle2 W
- Follicle3 L
- Follicle3 H
- Follicle3 W
- Follicle4 L
- Follicle4 H
- Follicle4 W
- Follicle5 L
- Follicle5 H
- Follicle5 W
- Follicle6 L
- Follicle6 H
- Follicle6 W
- Follicle7 L
- Follicle7 H
- Follicle7 W
- Follicle8 L
- Follicle8 H
- Follicle8 W
- Follicle9 L

- Follicle9 H
- Follicle9 W
- Follicle10 L
- Follicle10 H
- Follicle10 W
- Follicle11 L
- Follicle11 H
- Follicle11 W
- Follicle12 L
- Follicle12 H
- Follicle12 W
- Follicle13 L
- Follicle13 H
- Follicle13W
- Follicle14 L
- Follicle14 H
- Follicle14 W
- Follicle15 L
- Follicle15 H
- Follicle15 W
- Follicle16 L
- Follicle16 H
- Follicle16 W
- Ovary Vol
- UT Vol
- Uterus Body
- UT-L/CX-L
- BND
- DWT
- DWT1
- DWT2
- DWT3
- Mean DWT
- Residual Urine: BL Height, BL Depth
- BSD (R)
- UTA (R)
- RVA(R)
- BPW-SP Dist.(R)
- Cx-SP Dist. (R)
- RA-SP Dist. (R)
- Shuttle (R)
- ARA (R)
- LH AP Diam (R)
- LH Lateral Diam (R)
- LH Area (R)
- LA Angle (R)
- LUG (R)
- BSD (Va)
- UTA (Va)
- RVA (Va)
- BPW-SP Dist. (Va)
- Cx-SP Dist. (Va)
- RA-SP Dist. (Va)
- Shuttle (Va)
- ARA (Va)
- LH AP Diam (Va)
- LH Lateral Diam (Va）
- LH Area (Va)
- LA Thickness (Va)
- LA Angle (Va)
- LA Thickness (Va)
- LA Angle (C)
- LUG (C)
- IAS Damage
- EAS Damage

● Cardiology

- Ao Diam (2D)
- Ao Arch Diam (2D)

BWM30

Portable Color Doppler Ultrasonic Diagnostic System

- Ao Asc Diam (2D)
- Ao Desc Diam (2D)
- Ao Isthmus (2D)
- Ao st junct (2D)
- Ao Sinus Diam (2D)
- AVA
- ASD Diam
- ACS (2D)
- AV Diam
- Duct Art Diam
- HR (Cube 2D)
- HR (Gibson 2D)
- HR (Teich 2D)
- IVC Diam (Expir)
- IVC Diam (Insp)
- IVSd (2D)
- IVSs (2D)
- LA Area
- LA Diam (2D)
- LA Major
- LA Minor
- LCA Diam
- LPA Diam (2D)
- LV Area (d)
- LV Area (s)
- Diastole (Cube2D)
- Diastole (Gibson2D)
- Diastole (Teich2D)
- LV Major
- LV Minor
- Systole (Cube 2D)
- Systole (Gibson2D)
- Systole (Teich2D)
- LVIDd (2d)
- LVIDd (Cube 2D)
- LVIDd (Gibson2D)
- LVIDd (Teich2D)
- LVIDs (2d)
- LVIDs (Cube 2D)
- LVIDs (Gibson2D)
- LVIDs (Teich2D)
- LVOT Diam
- RVOT Diam
- LVPWd (2D)
- LVPWs (2D)
- MCS (2D)
- MPA Diam (2D)
- MVA
- MV Diam
- MV EPSS (2D)
- PDA Diam
- PEd (2D)
- PEs (2D)
- PFO Diam
- Pre Ductal
- Post Ductal
- PV Diam
- RA Area
- RA Major
- RA Minor
- RCA Diam
- RPA Diam (2D)
- RV Area (d)
- RV Area (s)
- RV Major
- RV Minor
- RVAWd (2D)
- RVAWs (2D)

BWM30

Portable Color Doppler Ultrasonic Diagnostic System

- RVDd (2D)
- RVDs (2D)
- SVC Diam (Expir)
- SVC Diam (Insp)
- TV Diam
- TVA
- VSD Diam
- LVIDd (BP Ellipse)
- LVIDs (BP Ellipse)
- LVAd sax MV (BP Ellipse)
- LVAs sax MV (BP Ellipse)
- LVAd apical (BP Ellipse)
- LVAs apical (BP Ellipse)
- HR (BP Ellipse)
- LVAd sax MV (Bullet)
- LVAs sax MV (Bullet)
- LVLd apical (Bullet)
- LVLs apical (Bullet)
- HR (Bullet)
- LA Diam (LA Vol A-L)
- LAA (A2C)
- LAA (A4C)
- LA Vol (A2C)
- LA Vol (A4C)
- LVAd sax Epi (LV Mass A-L)
- LVAd sax Endo (LV Mass A-L)
- LVLd apical (LV Mass A-L)
- IVSd (LV Mass Cube-2D)
- LVIDd (LV Mass Cube-2D)
- LVPWd (LV Mass Cube-2D)
- LVAd sax Epi (LV Mass T-E)
- LVAd sax Endo (LV Mass T-E)
- a
- d
- RA Vol (A4C)
- LVLd apical (SP Ellipse)
- LVAd apical (SP Ellipse)
- LVLs apical (SP Ellipse)
- LVAs apical (SP Ellipse)
- HR (SP Ellipse)
- LVLd apical (Simp)
- LVLd apical (Simp)
- LVLs apical (Simp)
- LVAd sax MV (Simp)
- LVAs sax MV (Simp)
- LVAd sax PM (Simp)
- LVAs sax PM (Simp)
- HR (Mod Simp)
- EDV (Simp BP-A2C)
- ESV (Simp BP-A2C)
- EDV (Simp BP-A4C)
- ESV (Simp BP-A4C)
- HR (Simp BP)
- EDV (Simp SP-A2C)
- ESV (Simp SP-A2C)
- HR (Simp SP A2C)
- EDV (Simp SP-A4C)
- ESV (Simp SP-A4C)
- HR (Simp SP A4C)
- LA/AO (2D)
- AO/LA (2D)

- Vascular
  - Stenosis D
  - Stenosis A
- Urology
  - Renal L
  - Renal H
  - Renal W

BWM30

Portable Color Doppler Ultrasonic Diagnostic System

- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- Prostate L
- Prostate H
- Prostate W
- Seminal L
- Seminal H
- Seminal W
- Testicular L
- Testicular H
- Testicular W
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Prostate Mass1 d1
- Prostate Mass1 d2
- Prostate Mass1 d3
- Prostate Mass2 d1
- Prostate Mass2 d2
- Prostate Mass2 d3
- Prostate Mass3 d1
- Prostate Mass3 d2
- Prostate Mass3 d3
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W
- Scrotal Wall
- Renal Vol
- Prostate Vol
- Testis Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol

● SmallParts

- Thyroid L
- Thyroid H
- Thyroid W
- Isthmus H
- Testicular L
- Testicular H
- Testicular W
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W

BWM30

Portable Color Doppler Ultrasonic Diagnostic System

- Scrotal Wall
- Breast Mass1 L
- Breast Mass1 H
- Breast Mass1 W
- Nip. -Mass1 Dist.
- Skin-Mass1 Dist.
- Breast Mass2 L
- Breast Mass2 H
- Breast Mass2 W
- Nip. -Mass2 Dist.
- Skin-Mass2 Dist.
- Breast Mass3 L
- Breast Mass3 H
- Breast Mass3 W
- Nip. -Mass3 Dist.
- Skin-Mass3 Dist.
- Breast Mass4 L
- Breast Mass4 H
- Breast Mass4 W
- Nip.-Mass4 Dist.
- Skin-Mass4 Dist.
- Breast Mass5 L
- Breast Mass5 H
- Breast Mass5 W
- Nip. -Mass5 Dist.
- Skin-Mass5 Dist.
- Breast Mass6 L
- Breast Mass6 H
- Breast Mass6 W
- Nip. -Mass6 Dist.
- Skin-Mass6 Dist.
- Breast Mass7 L
- Breast Mass7 H
- Breast Mass7 W
- Nip. -Mass7 Dist.
- Skin-Mass7 Dist.
- Breast Mass8 L
- Breast Mass8 H
- Breast Mass8 W
- Nip. -Mass8 Dist.
- Skin-Mass8 Dist.
- Breast Mass9 L
- Breast Mass9 H
- Breast Mass9 W
- Nip. -Mass9 Dist.
- Skin-Mass9 Dist.
- Breast Mass10 L
- Breast Mass10 H
- Breast Mass10 W
- Nip. -Mass10 Dist.
- Skin-Mass10 Dist.
- Thyroid Mass1 d1
- Thyroid Mass1 d2
- Thyroid Mass1 d3
- Thyroid Mass2 d1
- Thyroid Mass2 d2
- Thyroid Mass2 d3
- Thyroid Mass3 d1
- Thyroid Mass3 d2
- Thyroid Mass3 d3
- Thyroid Vol
- B- distance
- Pleural T

● Orthopedics

- HIP
- HIP (α)
- HIP (β)
- HIP-Graf

BWM30

Portable Color Doppler Ultrasonic Diagnostic System

- d/D

- Obstetrics
  - GS
  - YS
  - CRL
  - NT
  - BPD
  - OFD
  - HC
  - AC
  - FL
  - TAD
  - APAD
  - TCD
  - CM
  - LVW
  - HW
  - OOD
  - IOD
  - HUM
  - Ulna
  - RAD
  - Tibia
  - FIB
  - CLAV
  - Vertebrae
  - MP
  - Foot
  - Ear
  - APTD
  - TTD
  - FTA
  - THD
  - Hrtc
  - TC
  - Umb VD
  - F-kidney
  - Mat kidney
  - Cervix L
  - AF
  - NF
  - Orbit
  - PL Thickness
  - Sac Diam1
  - Sac Diam2
  - Sac Diam3
  - AF1
  - AF2
  - AF3
  - AF4
  - LVIDd
  - LVIDs
  - LA Diam
  - LV Diam
  - RVIDd
  - RVIDs
  - RA Diam
  - RV Diam
  - IVSd
  - IVSs
  - IVS
  - LA Area
  - LV Area
  - RV Area
  - RA Area
  - Ao Diam
  - MPA Diam
  - LVOT Diam

BWM30

Portable Color Doppler Ultrasonic Diagnostic System

- LVOT Diam
- Facial Angle
- HrtA
- MV Diam
- PV Diam
- Ao Asc Diam
- Ao Desc Diam
- Duct Art. Diam
- TV Diam
- LPA Diam
- RPA Diam
- IVC Diam
- AV Diam
- UT L
- UT H
- UT W
- Endo
- Mean Sac Diam
- AFI
- EFW
- EFW2
- HC/AC
- FL/AC
- FL/BPD
- AXT
- CI
- FL/HC
- HC (C)
- Hrtc/TC
- TCD/AC
- LVW/HW
- LVD/RVD
- LAD/RAD
- AoD/MPAD
- LAD/AoD

● Emergency

- Renal L
- Renal H
- Renal W
- CBD
- Portal V Diam
- CHD
- GB wall th
- Aorta Diam
- Aorta Bif
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- GS
- YS
- CRL
- UT L
- UT H
- UT W
- Endo
- Ovary L
- Ovary H
- Ovary W
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol
- Ovary Vol
- UT Vol

- UT SUM

5.2 M mode

- General
  - Distance (M)
  - HR (M)
  - Slope
  - Time (M)
  - Velocity
- Cardiology
  - Ao Arch Diam (M)
  - Ao Asc Diam (M)
  - Ao Desc Diam (M)
  - Ao Diam (M)
  - Ao Isthmus (M)
  - Ao Sinus Diam (M)
  - Ao st junct (M)
  - ACS (M)
  - HR (Cube M)
  - HR (Gibson M)
  - HR (Teich M)
  - IVSd (M)
  - IVSs (M)
  - LA Diam (M)
  - LPA Diam (M)
  - Diastole (Cube M)
  - Diastole (Gibson M)
  - Diastole (Teich M)
  - Systole (Cube M)
  - Systole (Gibson M)
  - Systole (Teich M)
  - LVET (M)
  - LVIDd (Cube M)
  - LVIDd (Gibson M)
  - LVIDd (Teich M)
  - LVIDd (M)
  - LVIDs (M)
  - LVIDs (Cube M)
  - LVIDs (Gibson M)
  - LVIDs (Teich M)
  - LVPEP (M)
  - LVPWd (M)
  - LVPWs (M)
  - MCS (M)
  - MPA Diam (M)
  - MV A Amp
  - MV E Amp
  - MV D-E Slope
  - MV DE
  - MV E-F Slope
  - MV EPSS (M)
  - PEd (M)
  - PEs (M)
  - RPA Diam (M)
  - RVAWd (M)
  - RVAWs (M)
  - RVDd (M)
  - RVDs (M)
  - RVET (M)
  - RVPEP (M)
  - TAPSE
  - IVSd (LV Mass Cube-M)
  - LVIDd (LV Mass Cube-M)
  - LVPWd (LV Mass Cube-M)
  - MV C-O dur
  - LVET (LV Tei Index-M)
  - LA/AO (M)
  - AO/LA (M)
- Obstetrics

- FHR
- LVIDd (M)
- LVIDs (M)
- RVIDd (M)
- RVIDs (M)
- IVSd (M)
- IVSs (M)

- Emergency
  - FHR

5.3 Doppler

- General
  - PS/ED
  - Vel
  - HR (Doppler)
  - Time (Doppler)
  - Acceleration
  - D Trace
  - Ratio (Vel)
  - Ratio (VTI)
  - Vol Flow
    - →Vas Area
    - →TAMEAN
    - →TAMAX
- Abdomen
  - Ren A Org
  - Arcuate A
  - Segment A
  - Interlobar A
  - Renal A
  - M Renal A
  - Renal V
  - Aorta
  - Celiac Axis
  - SMA
  - C Hepatic A
  - Splenic A
  - IVC
  - Portal V
  - M Portal V
  - Hepatic V
  - Lt Hepatic V
  - Rt Hepatic V
  - M Hepatic V
  - Splenic V
  - SMV
  - RAR
  - SMA/AO
  - CA/AO
- Cardiology
  - MV Aa (lateral)
  - MV Aa (medial)
  - AAo Vmax
  - AV VTI
  - AV Vmax
  - AR DecT
  - AR PHT
  - AR Ved
  - AR Vmax
  - AR VTI
  - MV ARa (lateral)
  - MV ARa (medial)
  - ASD Vmax
  - AV AccT
  - AV DccT
  - Coarc Pre-Duct
  - Coarc post-Duct
  - DAo Vmax

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Portable Color Doppler Ultrasonic Diagnostic System

- MV DRa (lateral)
- MV DRa (medial)
- MV Ea (lateral)
- MV Ea (medial)
- HR (Doppler)
- IVC Vel (Expir)
- IVC Vel (Insp)
- IVCT
- LPA Vmax
- LVET (Doppler)
- LVOT AccT
- LVOT VTI
- LVOT Vmax
- LVPEP (D)
- MPA Vmax
- dp/dt
- MR VTI
- MR Vmax
- MS Vmax
- MV A Dur
- MV A Vel
- MV VTI
- MV AccT
- MV DecT
- MV E Dur
- MV E Vel
- MV E VTI
- IVRT
- MV VTI
- MV Vmax
- PVein A Dur
- PVein A Vel
- PVein D Vel
- PVein D VTI
- PVein DecT
- PVein S Vel
- PVein S VTI
- PDA Vel (d)
- PDA Vel (s)
- PR PHT
- PR VTI
- PR Ved
- PR Vmax
- PV AccT
- PV VTI
- PV Vmax
- RAP
- RAP Vmax
- RVET (Doppler)
- RVOT Vmax
- RVOT VTI
- RVPEP (Doppler)
- MV Sa (lateral)
- MV Sa (medial)
- SVC Vel (Expir)
- SVC Vel (Insp)
- TR VTI
- TR Vmax
- TV A Dur
- TVA Dur
- TV A Vel
- TV AccT
- TV DecT
- TV E Vel
- TV VTI
- TV Vmax
- VSD Vmax
- Hepatic V S Vel

- Hepatic V D Vel
- MV HR
- TV HR
- AV HR
- PV HR
- MV C-O dur (D)
- LVET (LV Tei Index-Doppler)
- AR Rad
- AR Als Vel
- MR Rad
- MR Als Vel
- PR Rad
- PR Als Vel
- TR Rad
- TR Als Vel
- TV C-O dur
- RVET (RV Tei Index)
- MV E/A
- MVA (PHT)
- TV E/A
- TVA (PHT)

● Vascular

- CCA
- Bulb
- ICA
- ECA
- Vert A
- InnomA
- SubclavA
- Axill A
- Brachial A
- Ulnar A
- Radial A
- Subclav V
- Axill V
- Cephalic V
- Basilic V
- Ulnar V
- Radial V
- C. IliacA
- Ex.lliac A
- CFA
- SFA
- PopA
- TP Trunk A
- Peroneal A
- P. TibA
- A. TibA
- Dors.Ped A
- C. Iliac V
- Ex. Iliac V
- Femoral V
- SaphV
- PopV
- TP Trunk V
- Sural V
- Soleal V
- Peronea V
- P. TibV
- A. TibV
- ACA
- MCA
- PCA
- AComA
- PComA
- BA
- IIA
- DFA

- Ba V
- Brachial V
- IIV
- CFV
- SFV
- DFV
- SSV
- ASP
- BSP
- ICA/CCA (PS)

● Urology

- Testis A
- Testis V
- Epididymis A
- Epididymis A

● SmallParts

- STA
- ITA

● Obstetrics

- Umb A
- Duct Veno
- Placenta A
- MCA
- Fetal Ao
- Desc Aorta
- Ut A
- Ovarian A
- FHR (Doppler)
- Asc Aorta
- RVOT
- LVOT

● Emergency

- FHR

6 System setup

6.1 System Preset

● Region

- Hospital Info: Name, Address, Telephone, Fax, Hospital icon
- Language & Time:

→ Languages: English, Chinese, French, Russian, Spanish

→Time Zone

→Date & Time

→DateFormat: yyyy-MM-dd, MM-dd-yyyy dd-MM-yyyy

→Time Format: 24Hours, 12Hours

● General

- Patient information

→Patient Information: Name, DOB, Gender, Age, Hospital, ID, Operator

→Height and Weight unit: Metric, British

→Body surface area formula(BSA): Eastern, Western

- Exam Settings

→Status after exam ends: Scan, New Patient, Worklist

→Send after exam

- Sleep Mode

→ScreenSaver: Waiting 1,10,30,60 min

→Standby: Waiting 1,10,30,60 min

● Image

- Image Storage

→Cine lengths (s):Adjustable

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Portable Color Doppler Ultrasonic Diagnostic System

CardiacCycle: 1~16

→Image Size: Image Area, Standard Area

→Video Output: PAL, NTSC

- Image Setting

→Transducer: 3C5PD, 3C5PB, 3C5PDS, 7L4PD, 7L4PB, 7L4PDS, 2P2MA, 3P2PA, 6E1PD, 6E1PDS, 6E1PB, 6C1PD, 4V4CDS

→Display Format: V2:3, V3:2, V3:1, H2:3, Full

→TI Style: TIB, TIC, TIS

→Freeze: Replay, Measure, Caliper

→Steer: C&PW, C/PW, Auto Invert

→Auto Invert

→Horizontal Ruler

→Panoramic Ruler

- Apply

- Measuring Cursor

→ Type: Number, Symbol

→Size: Large, Medium, Small

→Color (Active): Green, Yellow, Red, White

→Color (Inactive):Green, Yellow, Red, White

→Result Size: Large, Medium, Small

→Cardiac cycle: 1~8

→Delete the measurement results when deleting calipers

- Comment

→Font Size: Large, Medium, Small

→Arrow Size: Large, Medium, Small

→Automatically clear comments when unfreeze the image or switch the probe or exam mode

→Automatically clear the body mark when unfreeze the image

- Follicle

→Calculation method: Signal, Double, Three

- OB

- Fetal GA

- Mean Sac Diam →Daya, Hellman
- OOD→ Jeanty
- TCD→Hill, Nicolaides
- CLAV→Yarkoni
- Tibia→ Jeanty
- Ulna→ Jeanty
- HUM→ Jeanty, ASUM
- THD→Hansmann
- FTA→Osaka
- TAD→CFEF
- OFD→Hansmann, Nicolaides, ASUM
- FL→Hadlock, Tokyo, Merz, Hansmann, Warda, Chitty, Osaka, Nicolaides, ASUM, Jeanty, Hohler, China
- AC→Hadlock, Jeanty, Merz, Chitty, ASUM, CFEF, Hansman
- HC→Hadlock, Jeanty, Hansmann, ChittyPL, Chitty_Derived, Nicolaides, ASUM, CFEF
- BPD→Hadlock, Tokyo, Jeanty, Kurtz, Hansmann, Merz, Rempen, ChittyOI, Osaka, China, Nicolaides, ASUM
- CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM, Jeanty, Nelson, China, RobinsonBMUS
- GS→Rempen, Tokyo, Hansmann, China
- EFW2→Hadlock, Tokyo
- EFW→Hadlock, Tokyo
- Result Windows:

→Display EDD

→Display GA in the report

- Fetal Weight
  - FetalWeight
    - →Hadlock (AC,FL)
    - →Hadlock (AC,FL,BPD)
    - →Hadlock (AC,FL,HC)
    - →Hadlock (AC,FL,HC,BPD)
    - →Shepard
    - →Merz1
    - →Merz2
    - →Hansmann (BPD,THD)
    - →Tokyo
    - →Osaka (FL,BPD,FTA)
    - →Campbell
  - FetalWeight2
    - →Hadlock (AC,FL)
    - →Hadlock (AC,FL,BPD)
    - →Hadlock (AC,FL,HC)
    - →Hadlock (AC,FL,HC,BPD)
    - →Shepard
    - →Merz1
    - →Merz2
    - →Hansmann (BPD,THD)
    - →Tokyo
    - →Osaka (FL,BPD,FTA)
    - →Campbell
  - WeightUnit: METRIC, IMPERIAL, METRIC & IMPERIAL
- Fetal Weight Percentile
  - Formula: NULL, Hadlock, Brenner, William
  - Type: AUA/CUA, LMP&AUA/CUA, LMP
- Fetal Growth Curve
  - FL/HC→Hadlock
  - HC/AC→Campbell
  - AFI→Moore
  - UmbARI→JSUM
  - UmbAPI
  - MCARI→JSUM
  - MCAPI
  - CM→Nicolaides
  - TCD→Hill, Goldstein, Nicolaides
  - CLAV→Yarkoni
  - FIB→Merz, Jeanty
  - RAD→Merz, Jeanty
  - Tibia→Merz, Jeanty
  - Ulna→Merz, Jeanty
  - HUM→ ASUM, Jeanty, Merz
  - THD→Hansmann
  - FTA→Osaka
  - TAD→Merz, CFEF
  - APAD→Merz
  - OFD→Hansmann, Merz, Nicolaides, ASUM, Jeanty
  - FL→Hadlock, Tokyo, Merz, Hansmann, O_Brien, Warda, Chitty, Jeanty, Osaka, Nicolaides, ASUM, CFEF
  - AC→Hadlock, Jeanty, Merz, Chitty, Nicolaides, ASUM, CFEF, Hansman
  - HC→Hadlock, Merz, Hansmann, Jeanty, CFEF, ChittyPL, Chitty_Derived, Nicolaides, ASUM
  - BPD→Hadlock, Tokyo, Jeanty, Kurtz,

Sabbagha, Hansmann, Merz, Rempen, ChittyOI, Osaka, Nicolaides, ASUM, CFEF

- CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM
- GS→Rempen, Tokyo, Hansmann, Hellman
- EFW2→Hadlock, Hansmann, Tokyo, Brenner, William
- FEW→Hadlock, Hansmann, Tokyo, Brenner, William
- OB Graph:1*1, 1*2, 2*2,2*1

- Customize

- Button Type: Button, Foot Switch
- Button: Save1, Save2, Q1, Q2, Q3, Q4, Print
- Function Type
  - Output: Save Image, Save Cine
  - Print: Analog Print, Digital Print
  - Image Mode:
    - →Enter TDI Mode
    - →Enter Elasto Mode
    - →Enter Pano Mode
    - →Enter Anatomic M Mode
    - →Enter Dual Live Mode
    - →Enter Quad Mode
  - Other: Q Save, Freeze/Unfreeze, Ultrasound assistant
- Trackball Speed: Slow, Medium, Fast
- Button Brightness:0-9
- Button Volume: On/Off

- Admin

- Enable Admin: On/Off
  - Username, password, Add, Delete, Change Password

6.2 Exam Preset

- Available on All transducers
- Add New Applications
- Delete Applications
- Set up Default Clinical App of boot
- Adjustable position of application

6.3 Measure Preset

- Measure
  - Measurement items can be added and moved
  - 2D, M, Doppler
- Caliper
  - Measurement items can be added and moved
  - 2D, M, Doppler
- Report
  - Preset Report Template Name

6.4 Network Preset

- Local TCP/IP

-Wired Network

- DHCP, Static

  IP Address, Subnet Mask, Gateway

- DICOM Local

-Localhost Dicom Service Property

- AE Title, Port, PDU

- Serve Setting
  - Device, IP
- Device list
  - Device, IP
  - Set Dicom Service, Delete

- DICOM Service

- Storage
- Print
- Worklist
- MPPS

- Storage Commitment
- Query/retrieve

6.5 Print Preset

- Print Service
  - Add
  - Delete
  - Rename
  - Add Printer
  - Default
- Printer Property

  Service Type, Service Name, Printer, Paper Orientation, Paper Size
- Printing Parameter

  Brightness, Contrast, Saturation, Rows, Columns

6.6 About & Maintenance

- System Info
- Detailed Info
- Option
- Other

7 Transducer Parameters

- Convex probe 3C5PD

  - Applications: ABD, OB, GYN, PedABD, Urology
  - Number of Elements:128
  - Harmonics frequency: 1.2-3.0, 2.6-4.5, 4.2-6.5MHz
  - Basic frequency: 3.4, 4.0, 5.0, 6.4MHz
  - Depth range: 40~420mm
- Linear array probe 7L4PD

  - Applications: Carotid, Thyroid, Nerve, Superficial, MSK, PedABD, Orthopedic, Vascular
  - Number of Elements: 128
  - Harmonics frequency: 4.2-6.3, 6.0-9.5, 8.5-15.0MHz
  - Basic frequency: 8.0, 9.4, 10.6, 12.2MHz
  - Depth range: 20-280mm
- Phased array probe 3P2PA

  - Applications: Adult Cardiac, Ped Cardiac, TCI, ABD
  - Number of Elements: 64
  - Harmonics frequency: 1.2-2.6, 2.4-3.8, 3.5-6.5MHz
  - Basic frequency: 3.0, 4.0, 5.0, 6.0MHz
  - Depth range: 30~320mm
- Volume probe 4V4CDS

  - Applications: ABD, OB, GYN
  - Number of Elements: 128
  - Harmonics frequency: 1.6-3.0, 2.8-4.5, 4.2-8.0MHz
  - Basic frequency: 5.0, 6.4, 7.2, 8.0MHz
  - Depth range: 40~420mm
- Trans-vaginal probe 6E1PD

  - Applications: OB/GYN, Prostate
  - Number of Elements: 128
  - Harmonics frequency: 3.2-5.5, 5.2-7.5, 6.8-12.0Hz
  - Basic frequency: 6.4, 7.2, 8.0, 10.0MHz
  - Depth range: 20~280mm
- Micro-convex Probe 6C1PD

  - Applications: Ped ABD, Ped Cardiac, TCI
  - Number of Elements: 128
  - Harmonics frequency: 3.5-6.3, 6.0-7.5, 6.8-12.0MHz

BWM30

Portable Color Doppler Ultrasonic Diagnostic System

- Basic frequency: 6.4, 7.2, 8.0, 10.0MHz
- Depth range: 20~280mm

8 System Inputs & Outputs

- HDMI: 1
- PRINT: 1
- USB 2.0: 2
- USB 3.0: 1
- S-Video: 1
- Video: 1
- Network port: 1
- Power in: 1

9 Standard Package

- Main Unit
- Transducers selectable
- Power cord/grounding cable
- Fuse (2)
- User's Manual
- Coupling Gel (0.25L)

10 Optional Accessories

- Transducers
- Pedal Switch
- Thermal Printer
- Laser Printer
- Biopsy

11 Certificates

- Quality Standards
  - ISO9001
  - ISO13485

◆ NOTICE:

Not all features or specifications described in this document may be available in all transducers and all modes.

Zoncare reserves the right to make changes in specifications and features shown herein.

BAWERS

MEDICAL EQUIPMENT

Mulan 1 AI+

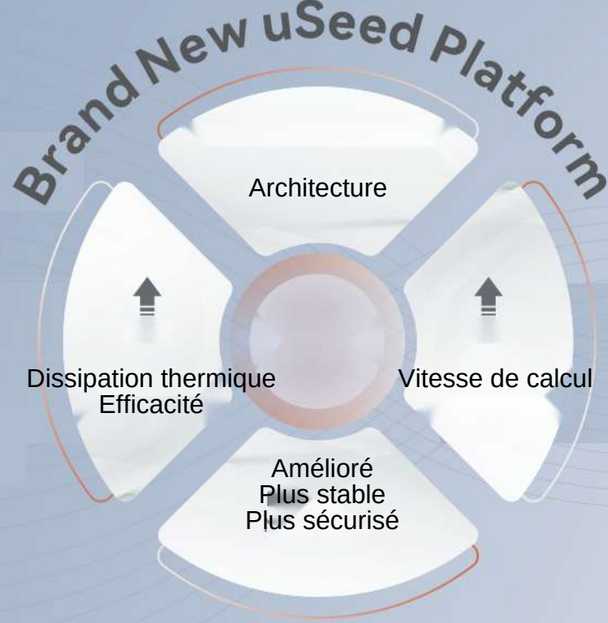
Système d’échographie Doppler couleur

Léger & Agile

L’ingéniosité crée l’extraordinaire







Compact et léger, le BWMulan 1 peut être déplacé facilement dans les services, répondant avec flexibilité aux divers besoins d'échographie au chevet du patient. Il fournit une imagerie échographique rapide, précise et complète pour le diagnostic et le traitement cliniques, constituant une aide fiable pour le personnel médical lors des examens au chevet du patient.

Précis Professionnel Efficace Intelligent Agile

Une gamme complète de configurations de sondes répond aux divers besoins d'examens cliniques.



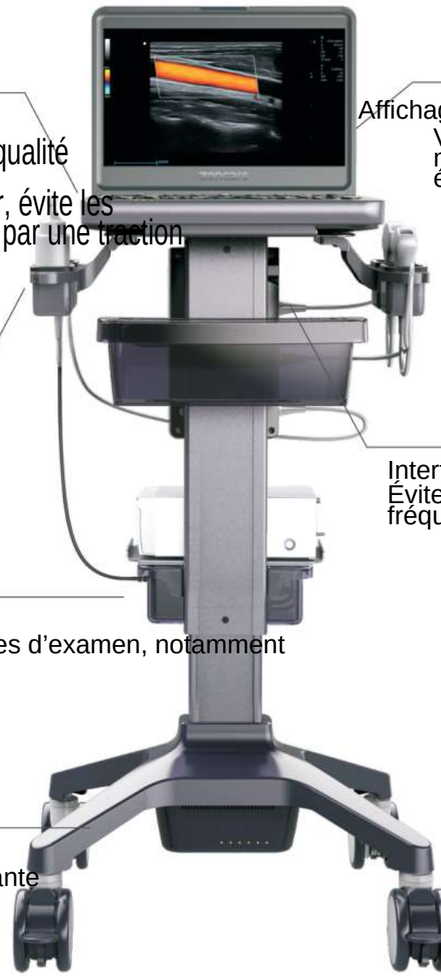
Conception ergonomique



Connecteur magnétique de qualité médicale
Facile à détacher et à utiliser, évite les dommages au câble causés par une traction.



Affichage de la batterie sur écran externe
Vérifiez le niveau de batterie à tout moment, même lorsque l'appareil est éteint.



Gestion intégrée des câbles
Évite la contamination du sol

Interface 1 à 3
Évite de changer et de débrancher fréquemment les sondes.

Réglage de hauteur étendu
S'adapte à différentes postures d'examen, notamment debout ou assise.



Batterie haute capacité
Assure une autonomie puissante

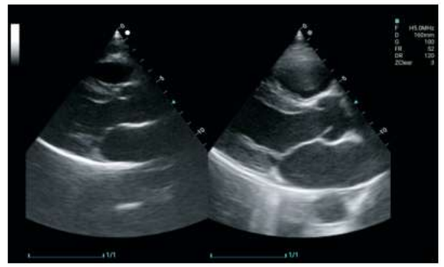
Valise de protection à roulettes
Valise de protection portable professionnelle à roulettes

Flux de travail efficace

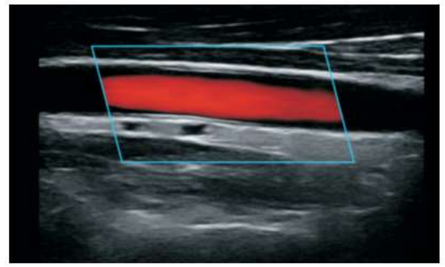




zWork
Visualise les procédures standard, normalise les opérations cliniques, réduit efficacement les étapes opérationnelles et facilite le suivi et la gestion.



zCompare
Permet de comparer les images à différents moments
et d'évaluer rapidement les changements de l'état du patient avant et après le traitement.



zTrack
Le suivi intelligent du flux sanguin en une seule touche verrouille les vaisseaux et optimise automatiquement les paramètres Doppler, réduisant les réglages manuels pour une plus grande efficacité des examens vasculaires.



zShare – Partage rapide des dossiers
Partagez rapidement les images des patients, les rapports et d'autres informations via Wi■Fi, Bluetooth et d'autres méthodes.

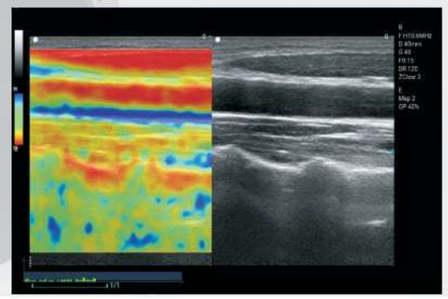




Imagerie générale



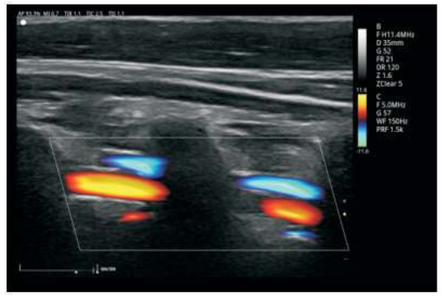
Auto Vasculaire



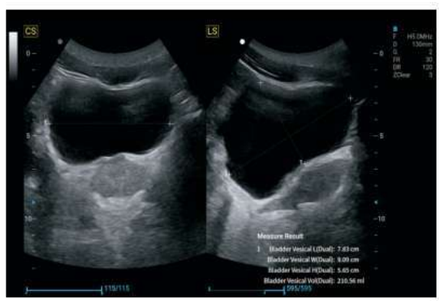
Élastographie



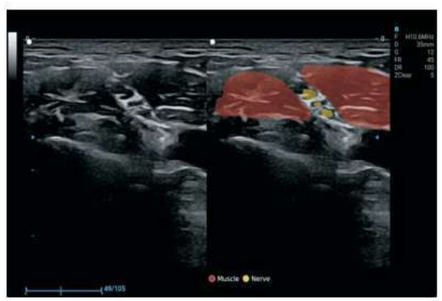
SUB (long)



Flux de balayage

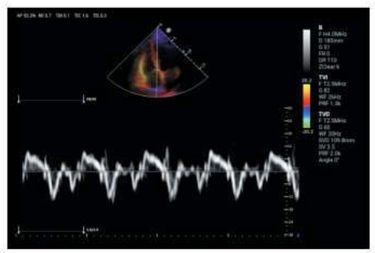


Vessie automatique

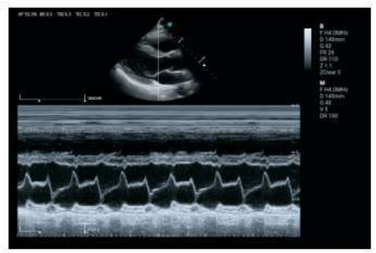


Nerf intelligent – IsBP

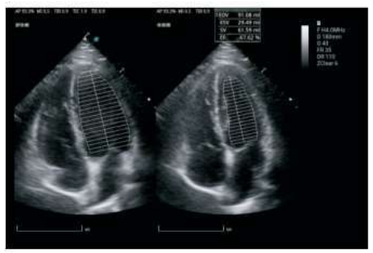
Imagerie cardiovasculaire



TDI-TVD



Mode M



FE automatique

Imagerie obstétricale et gynécologique



Zlive



Follicule automatique



OB intelligent

BWMulan 1 + IA

Système de diagnostic par ultrasons Doppler couleur

Spécifications techniques

Version de la publication : V 3.0

1. Vue d'ensemble du système

1.1 Applications cliniques

- Abdomen
- Obstétrique
- Gynécologie
- Urologie
- Cardiologie
- Petites pièces
- Vaisseau sanguin
- Superficiel
- Orthopédique
- MSK
- Nerf
- Pédiatrie
- TCI
- Poumon
- Plancher pelvien
- Coutume

1.2 Types de transducteurs

- Transducteur convexe
- Transducteur micro-convexe
- transducteur à réseau linéaire
- transducteur à réseau phasé
- Transducteur transvaginal
- transducteur de volume 4D

1.3 Modes d'imagerie

- Mode B
- B direction
- Mode 2B/4B
- Mode CDFI
- Mode M
- Mode B/M
- Mode CM
- Mode M anatomique
- Mode PDI
- Mode DPDI
- Mode PW
- Mode CW
- Panoramique
- Panorama couleur
- Imagerie élastique
- Imagerie étendue (EFOV)
- trapézoïdale (sonde linéaire)
- TDI(TVI,TVD,TVM,TEI)
- Mode 3D/4D

1.4 Fonctionnalités standard

- 15.6″Gestion des archives des
- moniteurs haute résolution
- Données brutes
- Post-traitement d'images
- Prétraitement des images
- Mode B
- B direction
- Mode 2B/4B
- Mode CDFI
- Mode M
- Mode B/M
- Mode CM
- Mode M anatomique
- Mode PDI
- Mode DPDI
- Flux RH
- zMicroFlow
- Écoulement de glaçage
- Mode PW
- Mode CW
- Imagerie étendue (EFOV)
- trapézoïdale (sonde linéaire)
- Fusion automatique
- TDI(TVI,TVD,TVM,TEI)
- Imagerie spécifique des tissus (TSI)
- Imagerie harmonique des tissus (THI)
- Imagerie composite spatiale (SCI) Imagerie
- composite de fréquence (FCI) Imagerie
- chromatique B/C/D
- Double Live
- Panoramique Zoom
- Zoom local
- Grossissement de mesure

- Optimisation automatique
- Rotation d'image
- Calcul automatique
- Auto IMT
- Amélioration de la perforation
- Étiquette de vitesse
- HPRF
- ZClear
- DICOM
- STIC (Corrélation d'images spatio-temporelles)

1.5 Fonctionnalités optionnelles

- 3D
- 4D
- Panoramique
- Imagerie élastique
- DICOM
- ZLive
- Silhouette
- Imagerie Zonnet

1.6 Gestion des données

-stockage de données

- Données d'image : format RAW/DICOM

-Envoyer des données

- Format d'image : RAW, JPG, DCM
  BMP, TIFF, RAW 8 bits
- Format vidéo : AVI, MP4
- Format DICOM : DCM
- Format du rapport: PDF

— Soutenir le masquage des informations patient :
Tous, Nom

-Sauvegarde des données

- Sauvegarde des données des patients
  USB/CD-ROM (format CDFS)
  dispositifs de stockage
- Assistance pour la récupération de données depuis
  USB/CD-ROM (format CDFS)
  périphériques de stockage vers le périphérique
- Soutenir la dissimulation des informations des patients :
  Tous,Nom
- Restauration des données
  - Prise en charge de la restauration des données supprimées de la Corbeille
- Partage de données
  - transmission WiFi

— Prise en charge du partage de photos, de vidéos et de rapports sur les appareils mobiles

— Assistance pour le zoom en ligne et visionnage des photos

— Prise en charge de la vidéo en ligne en plein écran visionnage

— Prise en charge du téléchargement d'un seul fichier ou téléchargement du package

  - transmission Bluetooth

— Prise en charge du partage de photos et de rapports sur les appareils mobiles

  - Réseau local vers PC

— Assistance au transfert d'images, vidéos et rapports sur ordinateur

— Prise en charge du transfert en un clic de photos et vidéos sur ordinateur

1.7 Connectivité

- Prise en charge des connexions
- réseau filaires, sans fil et
- Bluetooth. Prise en charge de
- DICOM 3.0.
- téléconsultations à distance
  - Soutenir les appareils à ultrasons
    Directement initié télécommande
    téléconsultations
  - Prise en charge de la commande inverse à distance de paramètres ultrasoniques
  - Soutien à l'enseignement en direct par ultrasons et plusieurs personnes en ligne visionnant
  - Prise en charge du partage d'écran

2 Spécifications physiques

2.1 Dimensions et poids

- Largeur : 380,0 mm
- Hauteur : 350,0 mm
- Épaisseur : 60,0 mm
- Poids : environ 4,9 kg(sans batterie)

2.2 Moniteur

- 15.6″Écran couleur haute résolution
- Résolution : 1920×1080
- Plage d'angle d'inclinaison : 0-155°

2.3 Ports du transducteur

-1 port de transducteur activé

2.4 Corps principal

- SSD de 960 Go
- Système d'exploitation : Linux

2.5 Puissance électrique

-Entrée adaptateur secteur

- Tension : 100 V-240 V
- Fréquence : 50 Hz/60 Hz
- Consommation électrique : 150 VA
- Alimentation : 100-240 V, 1,7-0,7 A
- Spécifications de la batterie : 14,4 V/6 700 mAh

2.6 Environnement d'exploitation

- Température ambiante : 5°C-40°C Humidité
- relative : 25 % à 85 % ; pression
- atmosphérique : 800 hPa à 1 060 hPa

2.7 Environnement de stockage et de transport

- Température ambiante : -20°C-55°C Humidité
- relative : 10 % à 95 % ; pression
- atmosphérique : 800 hPa à 1 060 hPa

3 Interface utilisateur

3.1 Informations de surveillance

-Informations générales:

- Logo
- Nom de l'hôpital
- Nom du patient, âge, sexe
- Données et heure du système
- Puissance acoustique
- MI
- TIS
- TIB
- TIC
- Type de transducteur
- Mode examen
- Niveau de batterie
- État de l'alimentation

- Zone d'image :
  - Image
  - Marque du transducteur
  - Échelle parallèle et échelle verticale
  - Position de focalisation
  - Profondeur
  - Barre grise/Barre de couleur
  - Barre de progression de la lecture
  - boîte de résultats de mesure
  - Marque de gel
  - Barre d'invite
  - Marque de texte/flèche/corps
- Zone de menu multifonction

  - Affiche les correspondances

  informations lors de la saisie de texte

  annotation/flèche annotation/

  Fonction de marquage/mesure corporelle.
- Zone des paramètres d'image
- presse-papiers
  - Vignette

    Envoyer

    Supprimer
  - Page précédente et page suivante
- Barre d'état
  - état de la connexion réseau
  - Méthode de saisie
  - État du magasin
  - Con de la poubelle de recyclage

- Gestionnaire de tâches
- Autre

3.2 Panneau de commande

- Conception du rétroéclairage des touches du panneau : réglable de 0 à 9
- Rétroéclairage du clavier : réglable de 0 à 9
- Marche/Arrêt
- Boutons du mode d'imagerie
- Touches de raccourci pour les paramètres B,
- C, PW, M, CW, PDI, TDI et 3D/4D
- Auto
- Angle/Direction
- Profondeur
- Se concentrer
- Ligne de base
- Échelle
- Zoom
- Touche de programmation définie par l'utilisateur
- Q1-Q4
- Sauvegarde 1, Sauvegarde 2
- Imprimer
- Bouton de gel
- Fonction
- Sonde
- Patient
- Rapport
- Revoir
- Examen de fin
- Gare
- Installation
- Biopsie
- QSave
- Texte
- Marque corporelle
- Flèche
- Pied à coulisse
- Mesures
- Mise à jour
- Double
- Curseur
- Clair
- Contrôle TGC à 8 segments
- Trackball
- Clavier
- Sensibilité du volume des boutons et du trackball sont réglables.
- Voyant lumineux
- Indicateur d'alimentation externe
- indicateur d'état de la batterie
- Indicateur de fonctionnement du disque dur

3.3 Écran auxiliaire

- Affichage du modèle
- Pourcentage de batterie
- État de charge de la batterie
- État de la connexion secteur (sans batterie) Prise en
- charge de l'activation de l'écran par gestes
- Prise en charge du réglage adaptatif de la direction du contenu affiché

3.4 Démarrage du système

- Démarrage en environ 30 s. Arrêt en environ
- 8 s. Économiseur d'écran : Désactivé, 1, 10, 30,
- 60 min.

3.5 Texte

- Langue des commentaires
- Anglais,中文,España,Français, русский язык,Deutsch,Polski,Italiano, Português,Român
- Bibliothèque de termes d'annotation : facultative
- Taille de police : Grande, Moyenne, Petite Affichage/
- masquage des commentaires Prise en charge des
- commentaires personnalisés
- Brosse : Marche, Arrêt

3.6 Flèche

- Taille des flèches : grande, moyenne, petite ;
- Direction des flèches : 360°°Support réglable
- pour masquer/afficher les flèches

3.7 Marques sur la carrosserie

- Plus de 145 marques corporelles
- Marquage de la sonde de support, direction réglable.
- Position : réglable.
- Ajouts personnalisés

4 Paramètres d'imagerie

4.1 Vue d'ensemble

-formateurs de faisceaux numériques

- Technologie de traitement parallèle multiplexé des signaux
- Mise au point dynamique numérique intégrale,
- ouverture variable numérique et technologie d'accrétion dynamique
- ANNONCE：14 bits

4.2 Mode B

- Niveaux de gris 2D : 256
- Format d'affichage :
  B (simple), 2B (double), 4B (quadruple)
- Direction B :
  - Pour sonde linéaire
  - 4 marches réglables à gauche
  - Réglable en 4 étapes
  - -16°-+16°，4°/Gain par
- palier : 0-100 dB, 1/palier
- Qualité d'image : Pen, Gen, Res, HPen, HPen-Gen, HGen, HRes
- Dyn Ra (plage dynamique) : 30-240 dB, 5/pas
- ZClear : 0-6,1/étape
- Persistance : 0-7,1/étape
- Carte grise : 1-10, 1/étape
- Chroma : 0-8,1/étape
- Champ de vision : 1-8,1/pas
- EFOV :
  - Les sondes à réseau phasé ne sont pas prises en charge
  - 0,1,2 Réglable
- Marche arrière U/D : Marche/Arrêt
- Double Live
- Biopsie
- Quad
- Règle horizontale : Masquer/Afficher
- SCI : 0-7, 1/pas
- Densité des lignes :
  L,M,H,UH
- Puissance acoustique : 3,2 % à 100 %
- Rotation : 0°, 90°, 180°，Marche arrière
- 270° G/D : Marche/Arrêt
- Se concentrer
  - Nombre de points de mise au point : jusqu'à 8 (désactivation SCI)
  - Emplacement du foyer :
- 15 FCI:0,1
- TSI : Général, Muscle, Graisse, Fluide Fusion
- automatique
- Ligne centrale
- Point central
- TGC：8 segments
- LGC : 8 segments
  - Type : Cœur générique, PSLA, PSSA, A4C, A2C, apical long
  - LGC1, LGC2, LGC3, LGC4, LGC5, LGC6, LGC7, LGC8
- Profondeur : 460 mm
- Zoom panoramique : Z0.8, Z0.9, Z1.1, Z1.2, Z1.4, Z1.6, Z1.8, Z2.0, Z3.0, Z4.0, Z5.0, Z6.0, Z7.0, Z8.0, Z9.0, Z10 ; Zoom local : 17
- niveaux réglables ; Fréquence d'images
- maximale : 266 (3P2CA)

Mode 4.3 M

- Format d'affichage :
  Gain : 0-100 dB, par incréments
- (Full, V2:3, V3:2, V3:1, H2:3)
- Dyn Ra : 30-240, 5/pas
- Vitesse : 1-8,1/pas
- Carte grise : 1-10, 1/étape
- Chroma : 0-8, 1/étape

4.4 Mode C

- Format d'affichage :
  - C(singulier)
  - 2C (Double)
  - 4C (Quad)
  - B+C (Dual Live)
- Gain : 0-100 dB, par incréments
- Qualité d'image : Stylet, Génération,
- Résolution ; Échelle : 0,1 k - 15,2 k
- (30 niveaux) ; Filtre mural : 8 niveaux (1/
- pas) ; Sensibilité : 1 - 4 (1/pas).
- Flux de vitrage : Arrêt, L, M, H
- Persistance : 0-6,1/étape
- Lissage : 0-6,1/étape
- Densité des lignes :
  L,M,H,UH
- État du flux : L, M, H
- Flux HR : Marche/Arrêt
- Priorité : 0-100, 1/étape

- Inverser : Marche/Arrêt
- Étiquette de vélocité : Marche/Arrêt
- B/CAlign : Marche/Arrêt
- Masquer les couleurs : activé/désactivé
- Carte des couleurs :
  - V0-V10 (Type de vitesse)
  - VV0-VV9(Type de variance de vitesse) Inversion
- automatique : Marche/Arrêt (sonde linéaire)
- Ligne de base : -8 à +8,1/étape, 17
- niveaux ; ROI : -28°-28°,7/étape ROI
- pilotage rapide : -28° ~28°,Position ROI 7/
- étape : Trackball
- Taille de la zone d'intérêt : Trackball, bouton de réglage
- de la zone d'intérêt :
  - Pour sonde linéaire
  - 4 marches réglables à gauche
  - Réglable en 4 étapes. Fréquence
- d'images maximale : 175 (3P2CA).

4.5 Mode PDI/DPDI

- Format d'affichage :
  - Célibataire
  - Double
  - Quad
  - Double Live(B+PDI、B+DPDI)
- Gain : 0-100 dB, par incréments
- Qualité d'image : Stylet, Génération,
- Résolution ; Échelle : 0,1 k - 15,2 k
- (30 niveaux) ; Filtre mural : 8 niveaux (1/
- pas) ; Sensibilité : 1 - 4 (1/pas).
- Persistance : 0-6,1/étape
- Lissage : 0-5,1/étape
- Densité des lignes :
  L,M,H,UH
- État du flux : L, M, H
- zMicroFlow : Marche/Arrêt
- Priorité : 0-100, 1/étape
- Inverser (DPDI)
- Dyn Ra:10-70,5/pas
- Puissance acoustique : 3,2 % à 100 % B/C ;
- Alignement : Marche/Arrêt
- Masquer les couleurs : activé/désactivé
- Carte des couleurs :
  - P0-P3 (Modèle énergétique)
  - dP0-dP3 (Modèle d'énergie directionnelle)

4.6 Mode PW

- Gain : 0-100 dB, par incréments
- Ligne de base : -8 à +8, par incrément de 1, 17 niveaux.
- Qualité d'image : Stylo, Génération, Résolution.
- Échelle : 0,7 k à 24 k, 30 niveaux. Filtre mural : 8
- niveaux, par incrément de 1. Inversion : Activée/
- Désactivée.
- Angle rapide : 0°，+60°，-60°
- Angle : -80°-80°，Vitesse : 1 à 8, 1
- pas par étape
- Format d'affichage :
  Plein,V2:3,V3:2,V3:1,H2:3
- Inversion automatique : activée/désactivée (sonde linéaire)
- Zone de traçage : supérieure, inférieure, totale
- SV : 0,5-80 mm, 0,5 mm/pas
- HPRF : Marche/Arrêt
- Volume : 0-100, 1/étape
- Dyn Ra:24-72,2/étape
- Synchronisation multiple : activée/désactivée
- Calcul automatique : activé/désactivé
- Cycle de calcul automatique : 1, 2, 3
- Paramètre de calcul automatique :
  - AT, D/S, DT, ED, débit (TAMAX), débit (TAM EAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN, VTI
- Chroma : 0-8,1/étape
- Carte grise : 1-10, 1/étape
- Résolution T/F : 1-5,1/pas. Synchronisation
- multiple : Activée/Désactivée.

4.7 Mode CW

- Gain : 0-100 dB, par incréments
- Ligne de base : -8 à +8,1/étape
- Qualité d'image : Stylo, Gen
- Échelle : 0,5 k à 120 k, 30 niveaux ; Ligne de base : -8 à +8,
- par incréments de 1, 17 niveaux ; Filtre mural : 8 niveaux,
- par incréments de 1 ; Inversion : Activée/Désactivée
-
- Vitesse : 1-8,1/pas
- Angle rapide : 0°，+60°，-60°
- Angle : -80°-80°，Format
- d'affichage par étape :
  Plein,V2:3,V3:2,V3:1,H2:3

- Zone de traçage : Ci-dessus, Ci-dessous, Toutes les
- zones dynamiques Ra : 24-72,2/étape
- Résolution T/F : 1 à 5,1 par pas ;
- Puissance acoustique : 3,2 % à 100 % ;
- Volume : 0 à 100,1 par pas
- Chroma : 0-8,1/étape
- Carte grise : 1-10, 1/étape
- Calcul automatique：Activation/
- désactivation du cycle de calcul automatique : 1, 2, 3
- Paramètre de calcul automatique :
  - AT, D/S, DT, ED, débit (TAMAX), débit (TAM EAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN, VTI

4.8 Mode M anatomique (AMM)

- AfficherA
- Afficher B
- Afficher C
- Position de la ligne d'échantillonnage : réglable
- Sens de la ligne d'échantillonnage : rotation de 0 à
- 180° Vitesse : 1-8,1/pas
- Carte grise : 1-10, 1/étape
- Chroma : 0-8,1/étape
- Format d'affichage : V2:3、H2:3

4.9 Mode M anatomique incurvé

- Une seule ligne d'échantillonnage de courbe est prise en charge
- Position du point d'échantillonnage : réglable
- Modifier, supprimer, révoquer
- Vitesse : 1-6,1/pas
- Carte grise : 1-10, 1/étape
- Chroma : 0-8,1/étape

4.10 Mode Couleur M

-Le réglage des paramètres est identique à celui du mode M.

4.11 Mode TDI (sonde à réseau phasé)

-TVI :

- Gain : 0-100 dB, par incréments
- Qualité d'image : Stylo, Génération, Résolution
- Échelle : 0,1 k à 15,2 k, 30 niveaux
- Ligne de base : -8 à +8,1/étape, 17 niveaux
- Filtre mural : 8 niveaux, 1/étape
- Sensibilité : 1 à 4,1/étape
- Persistance : 0-6,1/étape
- Lissage : 0-6,1/étape
- Double Live
- Densité des lignes :
  L,M,H,UH
- État du flux : L, M, H
- Priorité : 0-100, 1/étape
- Inverser : Marche/Arrêt
- B/CAlign : Marche/Arrêt
- Masquer les couleurs : activé/désactivé
- Palette de couleurs : V0-V9
- Puissance acoustique : 3,2 % à 100 %

- TVD

- Gain : 0-100 dB, par incréments
- Qualité d'image : Stylo, Génération, Résolution
- Filtre mural : 8 niveaux, 1/étape
- Échelle : 0,7 k à 24,0 k, 30 niveaux
- Ligne de base : -8 à +8,1/étape, 17 niveaux
- Inverser : Marche/Arrêt
- Angle rapide : 0°，+60°，-60°
- Angle : -80°-80°，1/étape
- Calcul automatique：Marche/Arrêt
- Cycle de calcul automatique : 1, 2, 3
- Paramètres de calcul automatique : AT, D/S, DT, ED, débit (TAMAX), débit (TA MEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN, VTI.
- Vitesse : 1-8,1/pas
- Ligne de base : -8 à +8,1/étape
- Format d'affichage :
  Plein,V2:3,V3:2,V3:1,H2:3
- Zone de traçage : Au-dessus, En dessous, Tout
- SV : 0,5-80 mm, 0,5 mm/pas
- HPRF : Marche/Arrêt
- Volume : 0-100, 1/étape
- Dyn Ra:24-72,2/étape
- Synchronisation multiple : activée/désactivée
- Chroma : 0-8,1/étape
- Carte grise : 1-10, 1/étape
- Résolution V/F : 1-5,1/étape
- Puissance acoustique : 3,2 % à 100 %

- TEI

- Gain : 0-100 dB, par incréments
- Qualité d'image : Stylo, Génération, Résolution
- Échelle : 0,1 k à 15,2 k, 30 niveaux

- Filtre mural : 8 niveaux, 1/étape
- Sensibilité : 1 à 4,1/étape
- Persistance : 0-6,1/étape
- Lissage : 0-6,1/étape
- Double Live
- Densité des lignes :

  L,M,H,UH
- État du flux : L, M, H
- Priorité : 0-100, 1/étape
- Dyn Ra:10-70,5/pas
- B/CAlign : Marche/Arrêt
- Masquer les couleurs : activé/désactivé
- Carte des couleurs :

  P0-P3 (Modèle énergétique)

  dP0-dP3 (Modèle d'énergie directionnelle)
- Puissance acoustique : 3,2 % à 100 %
- TVM :
- Gain : 0-100 dB, par incréments
- Dyn Ra : 30-240,5/étape
- Vitesse : 1-8,1/pas
- Carte grise : 1-10, 1/étape
- Chroma : 0-8,1/étape
- Format d'affichage :

  Plein,V2:3,V3:2,V3:1,H2:3

4.12 Statique 3D et 4D

- Prise en charge de la 3D intelligente
- Mode Préparation
- Surface, Profondeur, Max, Min, Rayons X, ZLive, Silhouette
- Préparer les paramètres
- Qualité : Faible, Moyenne, Élevée, Très élevée
- Angle : 10°—70°，5°/étape Mise à
- jour des paramètres
- Format d'affichage
- Célibataire
- Double
- Quad
- Quadriceps gauche
- Mode de rendu : Surface, Profondeur, Max, Min, Rayons X, ZLive, Silhouette
- Orientation : 0°、90°、180°、270°
- Rotation axiale : X, Y, Z
- Réinitialiser Ori
- Synchronisation
- Réinitialiser tout
- Réinitialiser la courbe VOI
- VOI
- Vue inversée
- Orientation de la vue : Haut/Bas, Bas/Haut, Gauche/Droite, Droite/Gauche, Avant/Arrière, Arrière/Avant
- Inverser
- Amélioration de l'image : 0-10,1/
- étape ; Seuil : 0-100,1/étape
- Luminosité : 0-100,1/pas ;
- Opacité : 0-100,5/pas
- Chroma : 0-8,1/étape
- Lissage : 0-12,1/étape
- MPR
- Célibataire
- Quad
- Réinitialiser Ori
- ABC
- Modifier les paramètres
- Célibataire
- Double
- Quad
- Quadrant gauche
- Boîte dans
- Box Out
- Contour dans
- Contour Out
- Polygone dans
- Polygon Out
- Défaire
- Annuler tout
- Auto Face
- STIC
- Sonde de support 4V4CD
- Mode de rendu : Surface, Rayons X, Max, Min
- Temps d'acquisition : 7,5 s、10s、12,5 s、15 secondes、17,5 s
- Angle : 10°-70°,5°/étape
- Fréquence cardiaque fœtale estimée (FCF)
- Revoir

- Support ZPage
- Mise en page de support
- Page Z
- Tranche 2×2
- Tranche 3×3
- Tranche 4×4
- Tranche 5×5
- Distance : 0,1-10, 0,1/pas
- Tranches A/B/C/Complètes
- Rotation axiale : X, Y, Z
- Tranches entières: Marche/Arrêt
- Position de la tranche : -7 à 8,1/étape
- Horizontal
- Verticale
- Paramètres de mise en page
- Niche
- Avant Arrière
- Arrière Avant
- A/B/C/Niche
- Rotation automatique
- Commencer
- Sens Unique
- Bidirectionnel
- Gauche Droite
- Haut Bas
- Vitesse : 1-3,1/pas
- Étape : 1-6,1/étape

4.13 Imagerie panoramique

- Prise en charge de toutes les sondes
- Prise en charge des modes B, C et PDI
- Prise en charge de la collecte et de l'effacement Prise en charge
- de l'affichage de la vitesse de numérisation Prise en charge de la
- lecture des images capturées
- Aide à la récupération
- Ajustement de la taille de l'image pris en charge : fixe, réel
- Facteur de zoom : 0,1-10
- Angle de rotation : 0°-355°
- Chroma : 0-8,1/étape
- Règle : Marche/Arrêt

4.14 Imagerie de l'élasticité

- tige indicatrice de pression
- courbe de compression
- Mesure du rapport de déformation
- Opacité : 0-10,1/étape
- Inverser : Marche/Arrêt
- Synchronisation : Activée/Désactivée ;
- Persistance : 0-5, 1/étape
- Lissage : 0-6,1/étape
- Carte : 1-7, 1/étape
- Support linéaire、convexe、
  sondes transvaginales

4.15 SCI

- Imagerie composite spatiale
- 0-7,1/étape
- Test du trombone : > 9 fils. Ne peut être
- utilisé simultanément avec l'imagerie FCI
  ou étendue.
- Les sondes à réseau phasé ne sont pas prises en charge.

4.16 FCI

- Imagerie composite de fréquence
- 0,1
- Ne peut être utilisé simultanément avec l'imagerie harmonique et la
  lésion de la moelle épinière.

4.17 Auto

- Optimisation automatique
- Mode B : Gain, Plage dynamique, TGC ;
- Mode C : Gain, Ligne de base
- Mode PW : Gain, Échelle, Plage dynamique, Ligne
  de base

4.18 Zoom

- Prise en charge de l'amplification frontale. Prise en
- charge de l'amplification arrière, plage de réglage
  multiple : 0,8-10, 17 niveaux.
- Prise en charge du grossissement plein écran FZoom :
  Agrandir la zone d'image normale en plein écran

4.19 Conseils en cas de crevaison

- Calibrage de la ligne de perforation
- Ligne simple/double Type de ligne :
- Petite, Moyenne, Grande Position :
- Réglable
- Angle : Réglable
- Ne prend pas en charge les sondes à réseau phasé, les
  sondes micro-convexes et les sondes volumétriques.

4.20 Assistant d'échographie

-Contient des schémas d'images échographiques, des schémas de
méthode opératoire, des instructions de fonctionnement

Instructions et schémas d'anatomie clinique. Prend en

- charge la fonction de zoom à fenêtre unique. Plus de 37
-
- Pièces prises en charge
  - Foie
  - Vésicule biliaire
  - Rate
  - Rein
  - Pancréas
  - Carotide
  - Thyroïde
  - Cardiaque
  - Vaisseaux sanguins : artère vertébrale, veine fémorale, artère fémorale, veine basilique, veine céphalique, artère ulnaire, artère brachiale, artère radiale, artère sous-clavière, artère axillaire, aorte abdominale, veine cave inférieure, artère rénale gauche
  - Sein
  - Ganglions lymphatiques cervicaux
  - Plexus brachial interscalénique,
  - Plexus brachial supraclaviculaire,
  - tendon de l'axe long du biceps brachial
  - tendon du sous-scapulaire
  - Articulation de la hanche
  - Une ligne
  - Signe de glissement pleural
  - Prostate
  - Utérus
  - Ovaire
  - Grossesse précoce
  - Milieu et fin de grossesse (circonférence abdominale, fémur, thalamus)
  - Crosse aortique de la fosse suprasternale
  - Urgence RAPIDE

Boucle de cinéma 4.20

- Disponible dans tous les modes. Prend en charge la
- lecture manuelle image par image et la lecture automatique à vitesse réglable.

- Vitesse de lecture (gel) : DÉSACTIVÉE,× 1/10,×1/5， ×1/4×1/3×1/2×1×2×3 Image
- de départ (figée)
  - Image finale (figée)
  - Sauvegarder (Geler)
  - Réinitialiser (Geler)
  - Passer au premier (gel)
  - Aller à la dernière page (gel)
  - Nombre maximal d'images de lecture en deux dimensions : 8684 images

4.21 Traitement des données brutes

- Mode B
  - Gagner
  - Plage dynamique
  - ZClear
  - Carte grise
  - Chroma
  - TGC
  - LGC
- Mode M/TVM
  - Gagner
  - Plage dynamique
  - Carte grise
  - Chroma
- Mode C
  - Gagner
  - Lisse
  - Priorité
  - Carte des couleurs
  - Ligne de base
  - Inverser
  - Étiquette de vitesse
  - Masquer la couleur
- PDI
  - Gagner
  - Lisse
  - Priorité
  - Carte des couleurs
  - Plage dynamique
  - Masquer la couleur
- PW/CW/TVD
  - Gagner
  - Plage dynamique
  - Carte grise
  - Vitesse
  - Chroma

- Ligne de base
- Angle rapide
- Zone de traçage

- AMM
  - Carte grise
  - Chroma
- TVI/TEI
  - Gagner
  - Lisse
  - Priorité
  - Carte des couleurs
  - Ligne de base
  - Inverser
  - Masquer la couleur
- Statique 3D et 4D
  - Seuil
  - Lisse
  - Opacité
  - Luminosité
  - Contraste
  - Dynamique
  - Chroma
  - Carte grise
  - Amélioration d'image
  - Mode de rendu
    - Surface, Profondeur, Max, Min, Rayon X, Zlive, Silhouette
- Imagerie panoramique
  - Taille
  - Angle
  - Chroma
- Imagerie de l'élasticité
  - Lisse
  - Opacité
  - Graphique

5 Mesure

5.1 Mode 2D

-Général

- Distance (2D)
- Tracer
- Ellipse
- Angle
- Rapport(D)
- Rapport (Trace)
- Rapport (Ellipse)
- Spline
- Croix
- Double Dist
- Trace Len
- Trace Len(Spline)
- Parallèle
- Profil B
- B-Hist(Ellipse)
- B-Hist(Trace)
- B-Hist(Spline)
- B-Hist(Rectangle)
- Profondeur
- Couleur Vel
- Volume (Ellipse)
- Volume (E+Dist.)
- Rapport (Spline)
- Rapport (Croix)
- Rapport de déformation
- IMT (À PROXIMITÉ)
- IMT(FAR)
- Débit vol.
- Zone Vas
- TAMEAN
- TAMAX

- Abdomen
  - Foie
  - L rénale
  - H rénale
  - W rénal
  - Cortex
  - Surrénale L
  - Adrénal H
  - Adrénale W
  - CBD
  - Portail V Diam
  - CHD
  - GB L
  - GB H
  - mur GB
  - Canal pancréatique
  - Tête de Panc

- Corps Panc
- Queue de panc
- Rate
- Diamètre de l'aorte
- Aorte bifide
- Diam Iliac
- Pré-BLL
- Pré-BLH
- Pré-BLW
- Post-BLL
- Post-BLH
- Post-BLW
- Uretère
- Vol rénal
- Pré-BLVol
- Post-BLVol
- Mictur.Vol
- Auto HRI

- Gynécologie
  - UT L
  - UT H
  - UTW
  - Col de l'utérus L
  - Col de l'utérus H
  - Col de l'utérus W
  - Endo
  - Ovaire L
  - Ovaire H
  - Ovaire W
  - Follicule
  - Follicule autologue
  - Vol. Ovaire
  - UT Vol
  - UT SUM
  - UT-L/CX-L
  - BND
  - DWT
  - DWT1
  - DWT2
  - DWT3
  - DWT moyen
  - Urine résiduelle

Hauteur BL

Profondeur du sang

- BSD(R)
- UTA(R)
- RVA(R)
- BPW-SP Dist.(R)
- Cx-SPDist.(R)
- Dist. RA-SP(R)
- Navette(R)
- ARA(R)
- LHAP Diam(R)
- Diam. latéral LH(R)
- Zone LHA(R)
- LAThickness(R)
- LAAngle(R)
- LUG(R)
- BSD(Va)
- UTA(Va)
- RVA(Va)
- BPW-SP Dist.(Va)
- Cx-SPDist.(Va)
- Dist. RA-SP (Virginie)
- Navette (Virginie)
- ARA(Va)
- LHAP Diam(Va)
- LH Lateral Diam(Va)
- Zone LHA (Virginie)
- LAThickness(Va)
- LAAngle (Virginie)
- LAThickness(C)
- LAAngle(C)
- LUG(C)
- Dommages IAS
- Dommages EAS

- Cardiologie
  - Ao Diam(2D)
  - Ao Arch Diam(2D)
  - Ao Asc Diam(2D)
  - Ao Desc Diam(2D)
  - Isthme d'Ao (2D)
  - Jonction de la rue Ao (2D)
  - Ao Sinus Diam(2D)
  - AVA
  - ASD Diam

- ACS(2D)
- AV Diam
- Diamètre de l'art du conduit
- HR(Cube 2D)
- HR(Gibson 2D)
- HR(Teich 2D)
- IVC Diam(Expir)
- IVC Diam(Insp)
- IVSd(2D)
- IVS(2D)
- LAArea
- LADiam(2D)
- LAMajor
- LAMinor
- LCADiam
- LPADiam(2D)
- Zone LVA(d)
- Zone(s) LVA
- Diastole (Cube 2D)
- Diastole (Gibson 2D)
- Diastole (Teich 2D)
- LV Major
- LV mineur
- Systole (Cube 2D)
- Systole (Gibson 2D)
- Systole (Teich 2D)
- LVIDd(2D)
- LVIDd(Cube 2D)
- LVIDd(Gibson 2D)
- LVIDd(Teich 2D)
- LVIDs(2D)
- LVIDs(Cube 2D)
- LVIDs (Gibson 2D)
- LVIDs (Teich 2D)
- Diamètre de la chambre de chasse du ventricule gauche
- Diamètre RVOT
- LVPWd(2D)
- LVPW(2D)
- MCS(2D)
- MPADiam(2D)
- MVA
- MV Diam
- MV EPSS(2D)
- PDADiam
- PEd(2D)
- PEs(2D)
- PFO Diam
- Pré-ductal
- Post-ductal
- PV Diam
- Zone RAArea
- RAMajor
- RAMinor
- RCADiam
- RPADiam(2D)
- Zone RVA(d)
- Zone(s) RV
- RV Major
- VR mineur
- RVAWd(2D)
- RVAWs(2D)
- RVDd(2D)
- RVDs(2D)
- SVC Diam(Expir)
- SVC Diam(Insp)
- TV Diam
- TVA
- Diamètre VSD
- LVIDd(ellipse BP)
- LVIDs(ellipse de pression artérielle)
- LVAD sax MV(BP Ellipse)
- LVAs sax MV(BP Ellipse)
- LVAd apical(ellipse BP)
- LVA apicale (ellipse BP)
- Ellipse FC(PA)
- LVAd sax MV(Bullet)
- LVAs sax MV(Bullet)
- LVLd apical (Ballon)
- LVL apicaux (Bullet)
- RH (Bullet)
- LADiam(LAVol AL)
- LAA(A2C)
- LAA(A4C)
- LAVoI(A2C)
- LAVoI(A4C)
- LVAd sax Epi(LV Mass AL)

- LVAd sax Endo(LV Mass AL)
- LVLd apical (LV Mass AL)
- IVSd(LV Mass Cube-2D)
- LVIDd(LV Mass Cube-2D)
- LVPWd(LV Mass Cube-2D)
- LVAd sax Epi(LV Mass TE)
- LVAd sax Endo(LV Mass TE)
- un
- d
- RAVoI(A4C)
- LVLd apical(SP Ellipse)
- LVAd apical(SP Ellipse)
- LVL apicaux (ellipse SP)
- LVA apicale (ellipse SP)
- HR(SP Ellipse)
- LVLd apical(Simp)
- LVL apicaux (Simp)
- LVAd sax MV(Simp)
- LVAs sax MV(Simp)
- LVAD sax PM(Simp)
- LVAs sax PM(Simp)
- RH (Mod Simp)
- EDV(Simp BP-A2C)
- ESV(Simp BP-A2C)
- EDV (Simp BP-A4C)
- ESV(Simp BP-A4C)
- FC (PA simplifiée)
- EDV (Simp SP-A2C)
- ESV(Simp SP-A2C)
- RH(Simp SPA2C)
- EDV (Simp SP-A4C)
- ESV(Simp SP-A4C)
- RH(Simp SPA4C)
- LA/AO(2D)
- AO/LA(2D)
- Auto EF

- Vasculaire
  - Sténose D
  - Sténose A
- Urologie
  - L rénale
  - H rénale
  - W rénal
  - Cortex
  - Surrénale L
  - Adrénal H
  - Adrénale W
  - Prostate L
  - Prostate H
  - Prostate W
  - L séminal
  - H séminal
  - Séminaire W
  - Testiculaire L
  - Testiculaire H
  - Testiculaire W
  - Uretère
  - Pré-BLL
  - Pré-BLH
  - Pré-BLW
  - Post-BL L
  - Post-BLH
  - Post-BLW
  - Masse de la prostate1 d1
  - Masse de la prostate1 d2
  - Masse de la prostate1 d3
  - Masse de la prostate2 d1
  - Masse de la prostate2 d2
  - Masse de la prostate2 d3
  - Masse de la prostate3 d1
  - Masse de la prostate3 d2
  - Masse de la prostate3 d3
  - Masse testiculaire1 d1
  - Masse testiculaire1 d2
  - Masse testiculaire1 d3
  - Masse testiculaire2 d1
  - Masse testiculaire2 d2
  - Masse testiculaire2 d3
  - Masse testiculaire3 d1
  - Masse testiculaire3 d2
  - Masse testiculaire3 d3
  - Épididyme L
  - Épididyme W
  - Épididyme H
  - Paroi scrotale
  - Vol rénal

- Vol de prostate
- Testicule Vol
- **Pré-BLVol**
- **Post-BLVol**
- **Mictur.Vol**
- **Auto HRI**

- Petites pièces
  - **Thyroïde L**
  - **Thyroïde H**
  - **Thyroïde W**
  - **Isthme H**
  - Testiculaire L
  - Testiculaire H
  - Testiculaire W
  - Masse testiculaire1 d1
  - Masse testiculaire1 d2
  - Masse testiculaire1 d3
  - Masse testiculaire2 d1
  - Masse testiculaire2 d2
  - Masse testiculaire2 d3
  - Masse testiculaire3 d1
  - Masse testiculaire3 d2
  - Masse testiculaire3 d3
  - **Épididyme L**
  - **Épididyme W**
  - **Épididyme H**
  - Paroi scrotale
  - Masse mammaire 1 L
  - Masse mammaire1 H
  - Masse mammaire 1 W
  - **Nip.-Mass1 Dist.**
  - Dist. de la masse cutanée1
  - Masse mammaire 2 L
  - Masse mammaire2 H
  - Masse mammaire2 W
  - **Nip.-Mass2 Dist.**
  - Dist. de la masse cutanée2
  - Masse mammaire 3 L
  - Masse mammaire3 H
  - Masse mammaire3 W
  - **Nip.-Mass3 Dist.**
  - Dist. de la masse cutanée3
  - Masse mammaire 4 L
  - Masse mammaire 4 H
  - Masse mammaire4 W
  - **Nip.-Mass4 Dist.**
  - Dist. de la masse cutanée4
  - Masse mammaire 5 L
  - Masse mammaire 5 H
  - Masse mammaire 5 W
  - **Nip.-Mass5 Dist.**
  - Dist. de la masse cutanée5
  - Masse mammaire 6 L
  - Masse mammaire6 H
  - Masse mammaire 6 W
  - **Nip.-Mass6 Dist.**
  - Dist. de la masse cutanée6
  - Masse mammaire 7 L
  - Masse mammaire7 H
  - Masse mammaire 7 W
  - **Nip.-Mass7 Dist.**
  - Dist. de la masse cutanée7
  - Masse mammaire 8 L
  - Masse mammaire 8 H
  - Masse mammaire8 W
  - **Nip.-Mass8 Dist.**
  - Dist. de la masse cutanée8
  - Masse mammaire9 L
  - Masse mammaire9 H
  - Masse mammaire9 W
  - **Nip.-Mass9 Dist.**
  - Dist. de la masse cutanée9
  - Masse mammaire 10 L
  - Masse mammaire 10 H
  - Masse mammaire 10 W
  - **Nip.-Mass10 Dist.**
  - **Peau-Masse10 Dist.**
  - Masse thyroïdienne1 d1
  - Masse thyroïdienne1 d2
  - Masse thyroïdienne1 d3
  - Masse thyroïdienne2 d1
  - Masse thyroïdienne2 d2
  - Masse thyroïdienne2 d3
  - Masse thyroïdienne3 d1
  - Masse thyroïdienne3 d2
  - Masse thyroïdienne3 d3

- Vol. thyroïde
- Distance B
- Pleural T

- Orthopédie
  - HANCHE
  - HIP(α)
  - HIP(β)
  - HIP-Graf
  - d/D

- Obstétrique
  - GS
  - YS
  - CRL
  - NT
  - trouble de la personnalité limite
  - OFD
  - HC
  - AC
  - FL
  - TAD
  - APAD
  - TCD
  - CM
  - LVW
  - HW
  - OOD
  - IOD
  - HUM
  - Uina
  - RAD
  - Tibia
  - MENSONGE
  - CLAV
  - Vertèbres
  - Député
  - Pied
  - Oreille
  - APTD
  - TTD
  - ALEA
  - THD
  - HrtC
  - TC
  - Umb VD
  - F-rein
  - Rein Mat
  - Col de l'utérus L
  - AF
  - NF
  - Orbite
  - Épaisseur PL
  - Sac Diam1
  - Sac Diam2
  - Sac Diam3
  - AF1
  - AF2
  - AF3
  - AF4
  - LVIDd
  - LVIDs
  - LV Diam
  - LADiam
  - RVIDd
  - RVIDS
  - RV Diam
  - RADiam
  - IVSd
  - IVS
  - IVS
  - LAArea
  - Zone LVA
  - Zone RVA
  - Zone RAArea
  - Ao Diam
  - MPADiam
  - Diamètre de la chambre de chasse du ventricule gauche
  - Diamètre RVOT
  - Angle facial
  - HrtA
  - MV Diam
  - PV Diam
  - Ao Asc Diam
  - Ao Desc Diam
  - Diamètre de l'art du conduit
  - TV Diam
  - LPADiam

- RPADiam
- IVC Diam
- AV Diam
- UT L
- UT H
- UTW
- Endo
- Diamètre moyen du sac
- AFI
- EFW
- EFW2
- HC/AC (Campbell)
- FL/AC
- FL/BPD
- AXT
- FL/HC(Hadlock)
- HC(C)
- HrtC/TC
- TCD/AC
- LVW/HW
- LVD/RVD
- LAD/RAD
- AoD/MPAD
- LAD/AoD

- Urgence
  - L rénale
  - H rénale
  - W rénal
  - CBD
  - Portail V Diam
  - CHD
  - mur GB
  - Diamètre de l'aorte
  - Aorte bifide
  - Uretère
  - Pré-BLL
  - Pré-BLH
  - Pré-BLW
  - Post-BLL
  - Post-BLH
  - Post-BLW
  - GS
  - YS
  - CRL
  - UT L
  - UT H
  - UT W
  - Endo
  - Ovaire L
  - Ovaire H
  - Ovaire W
  - Vol rénal
  - Pré-BLVol
  - Post-BLVol
  - Mictur.Vol
  - Vol. Ovaire
  - UT Vol
  - UT SUM

Mode 5,2 M

- Général
  - Distance (M)
  - RH(H)
  - Pente
  - Temps (M)
  - Vitesse
- Cardiologie
  - Ao Arch Diam(M)
  - Ao Asc Diam(M)
  - Ao Desc Diam(M)
  - Ao Diam(M)
  - Isthme d'Ao (M)
  - Jonction de la rue Ao (M)
  - Ao Sinus Diam(M)
  - Jonction de la rue Ao (M)
  - ACS(M)
  - HR(Cube M)
  - RH (Gibson M)
  - RH (Teich M)
  - IVSd(M)
  - IVS(M)
  - LADiam(M)
  - LPADiam(M)
  - Diastole (Cube M)
  - Diastole (Gibson M)
  - Diastole (Teich M)
  - Systole (Cube M)

- Systole (Gibson M)
- Systole (Teich M)
- LVET(M)
- LVIDd(Cube M)
- LVIDd(Gibson M)
- LVIDd(Teich M)
- LVIDd(M)
- LVIDs(M)
- LVIDs(Cube M)
- LVIDs(Gibson M)
- LVIDs(Teich M)
- LVPEP(M)
- LVPWd(M)
- LVPW(M)
- MCS(M)
- MPADiam(M)
- MVAAmp
- MV E Amp
- Pente MV DE
- MV DE
- Pente MV EF
- MV EPSS(M)
- PEd(M)
- PEs(M)
- RPADiam(M)
- RVAWd(M)
- RVAWs(M)
- RVDd(M)
- RVD(M)
- RVET(M)
- Diamètre RVOT
- RVPEP(M)
- TAPSE
- IVSd(LV Mass Cube-M)
- LVIDd(LV Mass Cube-M)
- LIPWd(LV Mass Cube-M)
- MV CO dur
- LVET (LV Tei Index-M)
- LA/AO(M)
- AO/LA(M)
- IVC Diam(Insp M)
- IVC Diam(Expir M)
- SVC Diam(Insp M)
- SVC Diam(Expir M)
- Auto LV(M)
- Obstétrique
  - FHR(M)
  - LVIDd(M)
  - LVIDs(M)
  - RVIDd(M)
  - RVIDs(M)
  - IVSd(M)
  - IVS(M)
- Urgence
  - FHR(M)

5.3 Mode Doppler

- Général
  - PS/ED
  - Vel
  - HR (Doppler)
  - Temps (Doppler)
  - Accélération
  - Trace D
  - Rapport (Vel)
  - Rapport (VTI)
  - Débit vol.
    - Zone Vas
    - TAMEAN
    - TAMAX
- Abdomen
  - Ren AOrg
  - A arqué
  - Segment A
  - Interlobaire A
  - Rénal A
  - M Rénal A
  - V rénal
  - Aorte
  - Axe cœliaque
  - SMA
  - C Hépatique A
  - Hépatique A
  - Splénique A
  - IVC
  - Portail V
  - Portail M V

- Hépatique V
- Lt Hépatique V
- Hépatique droit V
- M Hépatique V
- Splénique V
- SMV
- RAR
- SMA/AO
- CA/AO

- Cardiologie
  - MVAa(latéral)
  - MVAa(médial)
  - AAo Vmax
  - AVVTI
  - AVVmax
  - AR DécT
  - AR PHT
  - AR Ved
  - AR Vmax
  - AR VTI
  - MVARa (latéral)
  - MVARA (médial)
  - ASD Vmax
  - AVAccT
  - AV DecT
  - Pré-conduit Coarc
  - Post-conduit Coarc
  - DAo Vmax
  - MV DRa(latéral)
  - MV DRa(médial)
  - MV Ea (latéral)
  - MV Ea(médial)
  - HR (Doppler)
  - Vitesse IVC (Expir)
  - IVC Vel(Insp)
  - IVCT
  - LPAVmax
  - LVET (Doppler)
  - LVOTAccT
  - VTI de la LVOT
  - Vmax de la LVOT
  - LVPEP (Doppler)
  - MPAVmax
  - dP/dt
  - MR VTI
  - MR Vmax
  - MS Vmax
  - MVADur
  - MVAVel
  - MVAVTI
  - MVAccT
  - MV DécT
  - MV E Dur
  - MV E Vel
  - MV E VTI
  - IVRT
  - MV VTI
  - Vmax
  - PVein ADur
  - PVein AVel
  - PVein D Vel
  - PVein D VTI
  - PVein DécT
  - PVein S Vel
  - PVein S VTI
  - PDAVel(d)
  - PDAVel(s)
  - PR PHT
  - PR VTI
  - PR Ved
  - PR Vmax
  - PVAccT
  - PV VTI
  - PV Vmax
  - RAP
  - RPAVmax
  - RVET (Doppler)
  - RVOT Vmax
  - RVOT VTI
  - RVPEP (Doppler)
  - MV Sa(latéral)
  - MV Sa(médial)
  - SVC Vel(Expir)
  - SVC Vel(Insp)
  - TR VTI
  - TR Vmax

- TVADur
- TVAVel
- TVAccT
- TV DécT
- TV E Vel
- TV VTI
- TV Vmax
- VSD Vmax
- Hépatique VS Vel
- Vitesse de la VD hépatique
- MV HR
- TV HR
- AV HR
- PV HR
- Durée du CO MV (Doppler)
- LVET (indice Doppler de Tei du VG)
- AR Rad
- ARAls Vel
- MR Rad
- MRALs Vel
- PR Rad
- PRAls Vel
- TR Rad
- TRAls Vel
- TV CO dur
- RVET (RV Tei Index)
- MV E/A
- MVA(PHT)
- TV E/A
- TVA(PHT)

- Vasculaire
  - CCA
  - Ampoule
  - ICA
  - ECA
  - Vert A
  - InnomA
  - Subclav A
  - Axille A
  - Brachiale A
  - UlnarA
  - Radial A
  - Sous-clavier V
  - Axill V
  - Céphalique V
  - Basilique V
  - Ulnaire V
  - Radial V
  - C.Iliaque A
  - Ex.Iliaque A
  - CFA
  - SFA
  - Pop A
  - Coffre TP A
  - Péronier A
  - P.Tib A
  - A.Tib A
  - Dors.Ped A
  - C.Iliaque V
  - Ex.Iliaque V
  - Fémoral V
  - Saph V
  - Pop V
  - Coffre TP V
  - Sural V
  - Soléal V
  - Péronier V
  - P.Tib V
  - A.Tib V
  - ACA
  - MCA
  - PCA
  - AComA
  - PComA
  - BA
  - IIA
  - DFA
  - Ba V
  - Brachial V
  - IIV
  - CFV
  - SFV
  - DFV
  - SSV
  - ASPIC
  - BSP

- ICA/CCA(PS)
- Urologie
  - Testicule A
  - Testicule V
  - Épididyme A
  - Épididyme V
- Petites pièces
  - STA
  - ITA
- Obstétrique
  - Umb A
  - Canal veineux
  - Placenta A
  - MCA
  - Ao fœtal
  - Desc Aorte
  - Ut A
  - Ovarien A
  - FHR (Doppler)
  - Aorte ascendante
  - RVOT
  - LVOT
- Urgence
  - FHR (Doppler)

5.4 Analyse automatique des et mesures (outil intelligent)

- Auto HRI (Indice hépato-rénal)
  - Les sondes à réseau linéaire et à réseau convexe prennent en charge
  - Calcul automatique du rapport de niveaux de gris du cortex rénal et du foie
  - Prise en charge du réglage manuel du cadre de la zone d'intérêt
- Vessie automatique
  - Support de sonde à réseau convexe
  - reconnaissance automatique de la vessie
  - Trace automatique
  - Calcul automatique du volume d'urine résiduelle
  - traçage automatique
  - Réglage manuel du support
  - Prise en charge simple et double
- Auto Vascular
  - Prise en charge des sondes linéaires et convexes
  - Calcul automatique du diamètre des vaisseaux sanguins
  - Prise en charge des modèles de cathéters
- recommandés Auto VTI (Intégrale vitesse-temps)
  - Support de sonde à réseau phasé
  - Prise en charge de l'identification et du calcul automatiques du VTI/SV/CO/SVV
  - Prise en charge de la génération de graphiques de
- tendance Auto IVC (Veine cave inférieure)
  - Les sondes linéaires, convexes et à réseau phasé prennent en charge
  - Prend en charge l'identification et le calcul automatiques des valeurs maximales et minimales, de l'indice de réduction et de l'indice d'expansion
  - Prise en charge de la génération de graphiques de
- tendance Auto B Line
  - Prise en charge des sondes linéaires et convexes
  - Balayage de zone optionnel à 6, 8 ou 12 zones
  - Prise en charge de l'identification automatique des lignes B et du calcul du nombre total de lignes B
  - Aperçu de l'image d'assistance
- Diaph automatique
  - Les sondes linéaires, convexes et à réseau phasé prennent en charge
  - Prise en charge de l'identification et du calcul automatiques des mouvements du diaphragme, du temps inspiratoire, de la vitesse du diaphragme et de l'accélération du diaphragme
- Fraction d'éjection automatique
  - Support de sonde à réseau phasé
  - Identification automatique de l'endocarde du ventricule gauche
  - Trace automatique
  - Calcul automatique de la fraction d'éjection
  - Prise en charge du réglage manuel monopoint ou multipoint, réglage manuel automatique
- NT
  - Identification automatique de la nuque

translucidité et calcul de son épaisseur

- Auto LV (M)
  - Support de sonde à réseau phasé
  - Il identifie automatiquement le septum interventriculaire, le diamètre du ventricule gauche et la paroi postérieure du ventricule gauche, et calcule automatiquement la fraction d'éjection.
  - Prend en charge la commutation à cycle unique/ cycle complet.
- Smart OB
  - trouble de la personnalité limite
  - OFD
  - HC
  - AC
  - FL
  - NT
- Follicule autologue
  - Prise en charge de la mesure automatique des follicules en 2D
- RIMT (IMT en temps réel)
  - Soutien carotidien
  - Côté gauche、Droite
  - Le système calcule automatiquement 6 valeurs RIMT, la moyenne RIMT(M), l'écart type et la largeur de la ROI.
- IMT
  - Identification automatique de la membrane intima-média et calcul de son épaisseur
- Auto HIP (articulation de la hanche)
  - Mesure et classification automatiques des angles α et β de l'articulation de la hanche
- Nerf intelligent
  - Les sondes à réseau linéaire et à réseau convexe prennent en charge
  - Support des schémas de section transversale standard
  - SG intelligent : Ganglion stellaire
    — Identifier automatiquement le ganglion stellaire, artère carotide commune, muscle sternocléidomastoïdien et veine jugulaire interne
  - Smart IsBP : Plexus brachial interscalénique
    — Identifier automatiquement le Plexus brachial interscalénique, scalène antérieur, scalène moyen
  - Smart AxBP : Plexus brachial axillaire
    — Identification automatique de l'artère axillaire, du nerf musculo-cutané, du muscle coracobrachial et de l'humérus. et le chef long du biceps brachial
  - Smart ScBP : Plexus brachial supraclaviculaire
    — Identification automatique du plexus brachial supraclaviculaire，Première côte, artère sous-clavière, ligne pleurale
  - Nerf sciatique (poplité)
    — Identification automatique du nerf sciatique
  - Nerf fémoral intelligent
    — Identifier automatiquement le Artère fémorale, nerf fémoral, muscle ilio-psoas, fascia iliaque
  - Smart LP (trèfle) : Plexus lombaire
    — Identifiez automatiquement le processus transversal, le muscle grand psoas, le muscle quadratus lumborum et les muscles érecteurs du rachis
- MSK intelligent : musculosquelettique
  - Support de sonde linéaire
  - Support des schémas de section transversale standard
  - Smart BT (abrégé) : Tendon du biceps
    — Vue en coupe transversale du tendon du long biceps
  - Smart BT (long) : Tendon du biceps
    — Vue longitudinale du tendon du long biceps
  - Smart SUB (long) : Tendon subscapulaire
    — Vue en axe longitudinal du tendon subscapulaire
  - Smart SUB (abrégé) : Tendon subscapulaire
    — Vue en coupe transversale du tendon subscapulaire
  - Smart INF(long):Tendon infra-épineux
    — Vue en axe longitudinal du tendon infra-épineux
  - Smart TM (long) : Tendon du petit rond
    — Vue selon l'axe longitudinal de

Tendon du petit rond

- SUP intelligent (long) : Tendon supra-épineux

— Vue en grand axe du tendon du supra-épineux

- SUP intelligent (court) : Tendon supra-épineux

— Vue en coupe transversale du tendon du supra-épineux

Rapport 5.5

- Prise en charge de l'ajout de plusieurs images échographiques.
- Les mesures rapportées peuvent être sélectionnées comme valeurs récentes, moyennes, maximales et minimales ; les valeurs de mesure sont modifiables.
- L'ajout rapide de termes personnalisés, de modèles et de résultats de mesure est facilité. Les éléments
- affichés dans les rapports sont optionnels.

— Informations patient : Nom, identifiant, date de naissance, âge, sexe, clinicien, opérateur, date d'examen

- d'admission

- Mesure

— Analyse (OB)

— Image échographique

— Graphique OB (OB)

— Comparer le graphique (OB)

— Images anatomiques

— En-tête

— Pied de page

— Numéro de page

— Résultats de l'échographie

— Indication par ultrasons

- Signature

— Disposition des images échographiques : 1/ Rangée, 2/Rangée

— Disposition des images anatomiques : 1/ Rangée, 2/Rangée

— Taille de police : 12-20

— Épaisseur de police : Normale, Gras. Le

- rapport peut être généré/chargé.
- Exportation : Format PDF.
- **Comparaison des fœtus dans les grossesses multiples**
- Prise en charge du changement de formules de calcul de l'âge gestationnel

5.6 Stockage et gestion des examens

- Stockage des examens

— Capacité du disque dur : 960 Go

— Prise en charge du stockage d'images uniques et de fichiers vidéo de différents modes d'imagerie numérisée

- **Gestion des examens**

— Prise en charge de la consultation des informations relatives aux examens des patients par « Nom, date de naissance, heure de l'examen, identifiant du patient »

— Prise en charge de la consultation et de l'analyse des examens actuels et antérieurs

— Prise en charge de la création, de l'activation, de la mise en pause, de la reprise, de la suppression et de la fin des examens

— Prise en charge du rappel d'images et de vidéos enregistrées à des fins de mesure

— Prise en charge de l'importation, de l'exportation et de l'envoi des examens

— Prise en charge de la comparaison d'images

- Format d'exportation

— JPG/AVI
— BMP/AVI
— TIFF/AVI
— JPG/MP4
— BMP/MP4
— TIFF/MP4

6 Configuration du système

6.1 Préréglage système

-Région

- Informations sur l'hôpital :

Nom
Adresse
Téléphone
Fax
icône de l'hôpital

- **Langue et heure :**

- Langue:

Anglais,中文,Espagne， Français, русский язык, Deutsch, Polski, Italiano, Português, Român

— Disposition du clavier

— Data&Time

— Fuseau horaire

— Format des données :

aaaa-MM-jj
MM-jj-aaaa
jj-MM-aaaa

— Format de l'heure : 24 heures, 12 heures

— Sync

- Général

- Informations destinées aux patients

— Afficher l'élément : ID, Nom, Sexe, Âge, Opérateur, Hôpital, Date de naissance

— Unité de mesure de la taille et du poids : système métrique britannique

— Cadre d'examen

Statut après l'examen : Scan, Nouveau patient, Liste de travail

— Envoyer l'examen au format DICOM après la fin de l'examen

- Écran de veille système

— Écran de veille : En attente de désactivation, 1, 10, 30, 60 min

— Afficher la fenêtre de connexion à la sortie de l'économiseur d'écran

- Restaurer

— Sélectionner une image

— Aperçu

- Heure système

— Afficher l'heure

- système

- Stockage d'images

— Durée(s) du film : réglable

— Cycle cardiaque : 1-16

— Taille de l'image : Zone de l'image, Zone standard

— Sortie vidéo : Norme PAL/ NTSC/Zone d'image

— Code AVI/MP4

Qualité d'image : Haute, Moyenne, Basse

- Longueur du film rétrospective

— Temps (secondes) : (1-120 s)

— Cycle cardiaque (1 à 120 cycles)

- Longueur cinématographique prévue

— Temps (secondes) : (1-480 s)

— Cycle cardiaque (1-390 cycles)

- Paramètres d'image

- Défaut

Sélectionner le modèle de sonde par défaut

- Sonde

— Style TI : TIB, TIC, TIS

— Geler : Relecture, Mesure, Pied à coulisse

— Steer:C&PW,C/PW

— Inversion automatique

— Règle horizontale

— Règle panoramique

— Ligne centrale

— B+Color Refresh avec mouvement de ligne d'échantillonnage PW

- Application

- Curseur de mesure

— Type : Nombre, Symbole

— Tailles : Grand, Moyen, Petit

— Couleur (active) : Vert, Jaune, Rouge, Blanc

— Couleur (inactive) : Vert, Jaune, Rouge, Blanc

— Taille du résultat : Très grand, Grand, Moyen, Petit

— Ligne de mesure : Épaisse, Moyenne, Fine

— Loupe : Marche/Arrêt

— Cycle cardiaque : 1-8

— Supprimer les résultats de mesure

suppression des étriers

- Annotation

— Taille de la police : Grande, Moyenne, Petite

— Taille des flèches : Grande, Moyenne, Petite

— Effacement automatique des commentaires lors du dégel de l'image ou du changement de mode de sonde ou d'examen

— Effacement automatique de la marque corporelle lors du dégel de l'image

- Follicule

— Méthode de calcul :

1 distance, 2 distances, 3 distances

— Mode d'affichage automatique des follicules : Aucun, Contour, Rempli

— Affichage de l'étiquetage automatique des follicules

- OB

- AG fœtale

— Éléments de mesure

EFW—Hadlock, Tokyo

EFW2—Hadlock, Tokyo

GS—Rempen,Tokyo,Hansmann,Chine

CRL—Hadlock,Tokyo,Robinson, Rempen, Hansmann, ASUM, Jeanty, Nelson, Chine, RobinsonBMUS

Trouble borderline – Hadlock, Tokyo, Jeanty, Kurtz

Hansmann,Merz,Rempen,ChittyOI, Osaka,Chine,Nicolaides,ASUM HC—Hadlock,Jeanty,Hansmann, ChittyPL,Chitty_Derived, Nicolaides,ASUM,CFEF

AC—Hadlock,Jeanty,Merz,Chitty, Nicolaides,ASUM,CFEF,Hansman

FL—Hadlock,Tokyo,Merz, Hansmann, Warda, Chitty, Osaka, Nicolaides, ASUM, Jeanty, Hohler, Chine

OFD—Hansmann,Nicolaides,ASUM

TAD—CFEF

ALE—Osaka

THD—Hansmann

HUM—Jeanty,ASUM

Uina—Jeanty

Tibia—Jeanty

CLAV—Yarkoni

TCD—Hill, Nicolaides

OOD—Jeanty

Diamètre moyen du sac — Daya, Hellman

— Fenêtre de résultats :

Afficher EDD

Afficher GA dans le rapport

- Poids fœtal

— Poids fœtal 1 :

Hadlock (AC, FL)

Hadlock (AC, FL, BPD)

Hadlock (AC, FL, HC)

Hadlock (AC, FL, HC, BPD)

Shepard (AC, BPD)

Merz1(AC,BPD)

Merz2(AC)

Hansmann (BPD, THD)

Tokyo (BPD,APTD,TTD,FL)

Osaka (FL,BPD,FTA)

Campbell (AC)

— Poids fœtal 2 :

Hadlock (AC, FL)

Hadlock (AC, FL, BPD)

Hadlock (AC, FL, HC)

Hadlock (AC, FL, HC, BPD)

Shepard (AC, BPD)

Merz1(AC,BPD)

Merz2(AC)

Hansmann (BPD, THD)

Tokyo (BPD,APTD,TTD,FL)

Osaka (FL,BPD,FTA)

Campbell (AC)

— Unité de poids : MÉTRIQUE, IMPÉRIAL, MÉTRIQUE ET IMPÉRIAL

- Percentile du poids fœtal

— Formule : NULL, Hadlock, Brenner, William

—Type :AUA/CUA,LMP&AUA/CUA, LMP

Courbe de croissance fœtale

— Éléments de mesure :

EFW-Hadlock, Hansmann, Tokyo, Brenner, William

EFW2—Hadlock, Hansmann, Tokyo Brenner, William

GS-Rempen, Tokyo, Hansmann, Hellman

CRL—Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM

Trouble borderline – Hadlock, Tokyo, Jeanty, Kurtz

Sabbagha, Hansmann, Merz, Rempen, ChittyOI, Osaka, Nicolaides, ASUM, CFEF

HC-Hadlock, Merz, Hansmann, Jeanty, CFEF, ChittyPL, Chitty_Derived, Nicolaides, ASUM

AC—Hadlock,Jeanty,Merz,Chitty, Nicolaides,ASUM,CFEF,Hansman

FL-Hadlock,Tokyo,Merz,Hansmann, O_Brien,Warda,Chitty,Jeanty, Osaka,Nicolaides,ASUM,CFEF

OFD—Hansmann,Merz,Nicolaides, ASUM,Jeanty

APAD—Merz

TAD—Merz,CFEF

ALE—Osaka

THD—Hansmann

HUM—ASUM,Jeanty,Merz

Uina—Merz,Jeanty

Tibia—Merz,Jeanty

RAD—Merz,Jeanty

FIB—Merz,Jeanty

CLAV—Yarkoni

TCD—Hill,Goldstein,Nicolaides

CM—Nicolaides

MCARI—JSUM

UmbARI—JSUM

AFI—Moore

HC/AC—Champbell

FL/HC—Hadlock

— Graphique OB : 2×2,1×2,2×1,1×1

- Personnaliser
  - Type de bouton : bouton, interrupteur au pied
  - Bouton : Enregistrer 1, Enregistrer 2, Q1, Q2, Q3, Q4, Imprimer

— Sortie : Enregistrer l'image,

Sauver le cinéma (prospectif)

Enregistrer la vidéo (rétrospective) Enregistrer la vidéo et l'envoyer à l'ordinateur Enregistrer l'image et l'envoyer à

Ordinateur

— Impression : Impression analogique, Impression numérique 1,

Impression numérique 2

— Mode image :

Passer en mode TDI

Activer le mode Elasto

Passer en mode panoramique

Mode M anatomique

Passer en mode Dual Live

Passer en mode Quad

Mode unique

— 3D4D :

STIC

Auto Face

Page Z

Déplacez la lumière

Réinitialiser tout

Réinitialiser Ori

Synchronisation

Vue inversée

— Mesure

- Autre:

QSave

Congeler/Décongeler

assistant en échographie

FZoom

Gare

Démo Fastly d'envoi vers clé USB

Amélioration de la biopsie

Enregistrer le résultat du calcul automatique

- Vitesse de la trackball : Lente, Moyenne, Rapide
- Luminosité des boutons : 0-9
- Bouton Volume : Marche/Arrêt
- Codes-barres
  - Codes-barres de configuration : Patient/Mélange uniquement

6.2 Préréglage d'examen

- Sonde : Sélectionnez le type de sonde
- Bibliothèque d'examens :

  Afficher toutes les applications prises en charge par la sonde actuelle
- Modes d'examen sélectionnés :

  Affiche les modes d'inspection ajoutés pour la sonde actuelle
- Ajouter/Supprimer des modes d'examen pour la sonde actuelle
- Ajouter/supprimer tous les modes d'examen sous la sonde actuelle (le mode d'inspection par défaut ne peut pas être supprimé)
- Ajouter/supprimer tous les modes d'examen du même type (le mode d'examen par défaut ne peut pas être supprimé)
- Définir le mode d'examen par défaut pour la sonde actuelle
- Supprimer un mode d'examen personnalisé (paramètres prédéfinis personnalisés, et le nom sera affiché sous la sonde correspondante)
- Prise en charge du réglage de la position d'affichage des modes d'examen
- Mode d'examen rapide : tri par fréquence d'utilisation/récemment utilisé

6.3 Préréglage d'annotation

-Bibliothèque d'annotations actuelle

- Bibliothèque d'annotations optionnelle
  - ABD, OB, GYN, Cardiaque, SMP, URO, VAS, P ED, Nerf, EM
- Bibliothèque d'annotations sélectionnée
- Ajouter/supprimer des annotations de la bibliothèque d'annotations actuelle
- Ajouter/supprimer toutes les annotations de la bibliothèque d'annotations actuelle Supprimer la
- bibliothèque d'annotations personnalisée Ajouter de
- nouvelles annotations
- Prise en charge du réglage de la position d'affichage des annotations

6.4 Préréglage de mesure

- Mesure
  - Éléments de mesure prédéfinis
  - Supprimer les éléments de mesure
  - Nouveau : Ajouter un nouvel élément de mesure/calcul personnalisé
  - Supprimer : Supprimer un élément de mesure/calcul personnalisé
  - Avancé : Utilisez les paramètres avancés des éléments de mesure pour ajouter des alternatives et ajout de nouveaux ensembles de mesures personnalisés dans le mode d'examen actuel
  - Ajouter de nouveaux éléments d'étude
  - Ordre des articles de mesure
  - Définir les éléments de mesure par défaut
  - Propriété de l'élément de mesure
  - Mesurer le paquet
  - Séquence de mesure : Aucune, Répéter, Suivant
  - 2D,M,Doppler
- Avancé
  - Ajouter des ensembles de mesure alternatifs
  - Supprimer les ensembles de mesure sélectionnés
  - Ajouter/Supprimer des forfaits de mesure personnalisés
  - Ajuster la commande du paquet de mesures
  - Définir le package de mesure par défaut Pied à
- coulisse
  - Mesurer l'ajout/le déplacement d'un élément
  - Modifiez l'ordre des éléments de mesure
  - Définir l'élément de mesure par défaut
  - Définir la propriété de l'élément de mesure
  - Séquence de mesure : Aucune, Répéter, Suivant
  - 2D,M,Doppler
- Rapport
  - Définir le modèle de rapport par défaut
  - Créer un nouveau modèle de rapport
  - Modifier le modèle de rapport
  - Supprimer le modèle de rapport nouvellement créé

Préréglage zWorkFlow 6.5

- Créer un nouveau protocole
- Créer une nouvelle section
- Copier un protocole
- Supprimer un protocole
- Prise en charge du réglage de la position du
- protocole. Types de protocoles : séquentiel, aléatoire, insertion.
- Site d'application du protocole
- Désactiver les mesures obstétricales automatiques
- Désactiver les diagrammes de position pour tous les modèles
- Nouveau protocole
  - Propriété du protocole
    — Nom du protocole
    — Type de protocole
    Séquence
    Aléatoire
    Insert
    — Appliquer le protocole
    Différents modes d'examen
- Nouvelle section
  - Image
    — Nom de la section
    — Mode image
    Mode B、Mode B+M、Mode couleur B+ Mode PW B+、Mode B+Couleur+PW Mode B+CW、Mode couleur B+ Mode couleur B+ Mode CW
    — Paramètre d'image
    Calcul automatique : activé/désactivé
    Optimisation automatique : activée/désactivée
    — Couleur Steer : -28, -21, -14, -7, 0, 7, 14, 21, 28
    — Orientation : Aucune, Sangle, XS, Longue, Trans

- **Annotation**
  - **— Annotation 1**
    - **Emplacement : En haut à gauche, en haut au milieu, à droite, Centre, Bas gauche, Bas milieu, Bas droit**
  - **— Annotation 2**
    - **Emplacement : en haut à gauche, au milieu en haut, à droite, Centre, Bas gauche, Bas milieu, Bas droit**
  - **— Dimensions avant**
    - **Petit, Moyen, Grand**
- **Marque corporelle**
- **Mesures**
  - **—Sélectionnez un élément de mesure existant**
  - **- Propriété**
    - **Localisation : distal, moyen, proximal ; côté : gauche, droit**
- **Copie**
- **Supprimer**
- **Haut**
- **EN HAUT**
- **Vers le bas**
- **Bas**
- **Désactiver la mesure automatique OB (facultatif) Désactiver**
- **l'affichage des marques corporelles pour les protocoles (facultatif)**

Préréglage réseau 6.6

- **TCP/IP local**
  - **Méthode de connexion : Connexion filaire/Connexion sans fil**
  - **Réseau câblé**
    - **— DHCP, Statique**
    - **— Adresse IP**
    - **— Masque de sous-réseau**
    - **— Passerelle**
  - **réseau sans fil**
    - **— Connexion automatique**
- **DICOM Local**
  - **Propriété du service DICOM de l'hôte local**
    - **— Titre AE, Port, PDU**
  - **Paramètres du serveur**
    - **— Appareil, IP**
  - **Liste des appareils**
    - **— Appareil, IP**
  - **Configurer le service DICOM,**
- **supprimer le service DICOM**
  - **Stockage**
  - **Imprimer**
  - **Liste de travail**
  - **MPPS**
  - **Engagement de stockage**
  - **Requête/Récupération**

6.7 Préréglage d'impression

- **Service d'impression**
  - **Ajouter un service**
  - **Supprimer le service**
  - **Rebaptiser**
  - **Ajouter une imprimante**
  - **Défaut**
- **Propriété de l'imprimante**
  - **Type de service**
  - **Nom du service**
  - **Imprimante**
  - **Orientation du document**
  - **Format du papier**
  - **Type de papier**
- **Paramètres d'impression**
  - **Luminosité**
  - **Contraste**
  - **Saturation**
  - **Restaurer**

6.8 À propos et maintenance

- **Informations système**
- **Informations détaillées**
- **Option**
- **Autre**

6.9 Utilisateurs et autorité

- **Autorisations**
  - **Activer les autorisations**
  - **Avancé**
    - **— Définir le nombre et la durée des verrouillages**
    - **— Activer les mots de passe forts**
    - **— Catégories d'autorisations utilisateur : Administrateur, Utilisateur normal, Utilisateur d'urgence**
    - **- Ajouter**

- Supprimer
- Changer le mot de passe
— Modification des autorisations

- Paramètres utilisateur
  - Modifier le mot de passe de l'utilisateur actuel

7 Paramètres de la sonde

- **Sonde linéaire 7L4CD**
  - Applications : Carotide, Thyroïde, Nerf, Superficielle, Musculo-squelettique, Abdomen pédiatrique, Orthopédique, Vasculaire, Testicule, Poumon
  - Bande passante : 4,2-15,0 MHz
  - Nombre d'éléments : 128
  - Plage de balayage : 10-38 mm
  - Imagerie étendue : 30°
  - Fréquence de base : 4,2-6,3 MHz, 6,0-9,5 MHz, 8,5-15,0 MHz
  - Fréquence harmonique : 8,0 MHz, 9,4 MHz, 10,6 MHz, 12,2 MHz
  - Fréquence de couleur : 4,5 MHz, 5,0 MHz, 5,5 MHz (débit HR)
  - Fréquence PW : 4,5 MHz, 5,0 MHz, 5,5 MHz
  - Plage de profondeur : 20-280 mm
  - Support de crevaison (en option) : ZNG-08,40°,50°,60°
- **Sonde convexe 3C5CD**
  - Applications : ABD, OB, GYN, ABD Vascular Ped, ABD, Urologie Plancher pelvien, poumon
  - Bande passante : 1,0-7,5 MHz
  - Nombre d'éléments : 128
  - Portée de balayage : 27°-71°
  - Imagerie étendue : 79°
  - Rayon de courbure : 50 mm
  - Fréquence de base : 1,0-3,0 MHz, 2,6-4,5 MHz, 4,2-7,5 MHz
  - Fréquence harmonique : 4,0 MHz, 5,0 MHz, 6,4 MHz, 7,2 MHz
  - Fréquence de couleur : 2,5 MHz, 3,1 MHz, 3,5 MHz (débit HR)
  - Fréquence PW : 2,5 MHz, 3,1 MHz, 3,5 MHz
  - Plage de profondeur : 40-420 mm
  - Support de crevaison (en option) : ZNG-07,20°,30°,40°
- **Sonde micro-convexe 6C1CD**
  - Applications : Cardiologie, Pédiatrie, Abdomen
  - Bande passante : 3,5-12,0 MHz
  - Nombre d'éléments : 128
  - Portée de balayage : 30°—99°
  - Imagerie étendue : 106°
  - Rayon de courbure : 15 mm
  - Fréquence de base : 2,5-5,5 MHz, 5,2-7,5 MHz, 6,8-13,5 MHz
  - Fréquence harmonique : 6,4 MHz, 7,2 MHz, 8,0 MHz, 10,0 MHz
  - Fréquence de couleur : 4,5 MHz, 5,5 MHz, 6,2 MHz (débit HR)
  - Fréquence PW : 4,5 MHz, 5,5 MHz, 6,2 MHz
  - Plage de profondeur : 20-280 mm
- **Sonde à réseau phasé 3P2CA**
  - Applications : Cardiologie, Abdomen pédiatrique
  - Bande passante : 1,0-6,5 MHz
  - Nombre d'éléments : 64
  - Portée de balayage : 29°-89°
  - Fréquence de base : 1,0-2,6 MHz, 2,4-3,8 MHz, 3,5-6,5 MHz
  - Fréquence harmonique : 3,6 MHz, 4,0 MHz, 5,0 MHz, 6,0 MHz
  - Fréquence de couleur : 1,8 MHz, 2,0 MHz, 2,5 MHz (débit HR)
  - Fréquence PW : 1,8 MHz, 2,0 MHz, 2,5 MHz
  - Fréquence CW : 2,5 MHz, 3,3 MHz
  - Plage de profondeur : 30-320 mm
- **Sonde transvaginale 6E1CDS**
  - Applications : Obstétrique-Gynécologie, Prostate, Rééducation périnéale
  - Bande passante : 2,5-13,5 MHz
  - Nombre d'éléments : 128
  - Portée de balayage : 38°—158°

- Imagerie étendue : 165°
- Rayon de courbure : 10 mm
- Fréquence de base : 2,5-5,5 MHz, 5,2-7,5 MHz, 6,8-13,5 MHz
- Fréquence harmonique : 6,4 MHz, 7,2 MHz, 8,0 MHz, 10,0 MHz
- Fréquence de couleur : 4,5 MHz, 5,5 MHz, 6,2 MHz (débit HR)
- Fréquence PW : 4,5 MHz, 5,5 MHz, 6,2 MHz
- Plage de profondeur : 20-280 mm
- Support de crevaison (en option) : ZNG-09, 0,8°

- Sonde de volume 4V4CD
  - Applications : Obstétrique-Gynécologie, Abdomen, Rééducation périnéale
  - Bande passante : 1,6-8,0 MHz
  - Nombre d'éléments : 128
  - Portée de balayage : 26°—67°
  - Imagerie étendue : 75°
  - Angle de balayage volumique maximal : 70°
  - Fréquence de base : 1,6-3,0 MHz, 2,8-4,5 MHz, 4,2-8,0 MHz
  - Fréquence harmonique : 5,0 MHz, 5,6 MHz, 6,3 MHz, 7,2 MHz
  - Fréquence de couleur : 3,0 MHz, 4,0 MHz, 5,0 MHz (débit HR)
  - Fréquence PW : 3,0 MHz, 4,0 MHz, 5,0 MHz
  - Plage de profondeur : 30-320 mm

8 Entrées et sorties du système

- USB 3.0 : 2
- HDMI : 1
- Vidéo : 1
- S-Vidéo : 1
- Imprimer : 1
- Réseau : 1
- AC IN : 1
- Poteau au sol : 1

9 Pack Standard

- Unité principale
- Batterie au lithium
- Cordon d'alimentation
- Manuel d'utilisation

10 accessoires optionnels

- Transducteurs
- Imprimante thermique
- Imprimante laser
- Chariot
- Valise
- Kit de biopsie
- Pédale
- Adaptateur Wi-Fi
- Adaptateur Bluetooth
- Caméra externe
- prolongateur de sonde

11. Sécurité et authentification

11.1 Certification de qualité

- **Certifié par la NMPA**
- **《Bonnes pratiques de fabrication des dispositifs médicaux》 (Dispositifs médicaux conformes aux BPF)**

11.2 Normes applicables

- **GB 9706.1-2020**
- **GB 9706.237-2020**
- **GB 10152-2009**
- **GB/T 14710-2009**
- **YY 9706.102-2021**
- **YY/T 0767-2023**
- **YY/T 1419-2016**
- **YY/T 1279-2015**
- **YY/T 1671-2020**
- **YY/T 1057-2016**
- **YY/T 1420-2016**

AVIS:

Toutes les caractéristiques ou spécifications décrites dans ce document ne sont pas nécessairement disponibles pour tous les transducteurs et dans tous les modes.

Les données ci-dessus ont été révisées sur la base de l'APP V1.0.6(r8569).

BAWERS
MEDICAL EQUIPMENT

Portable Color Doppler Ultrasonic System

Slimmer I Clearer I Stronger

COLOR DOPPLER BWUB-74



Ergonomic Design

Match the ingenious ergonomic design with the compact size, I has remarkable adaptability which can fit variable usage scenario.





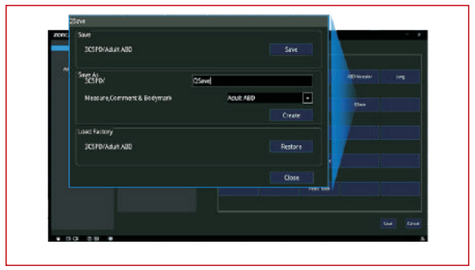
Transducers

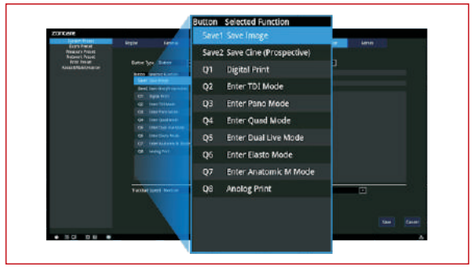


Efficient and Fast Workflow

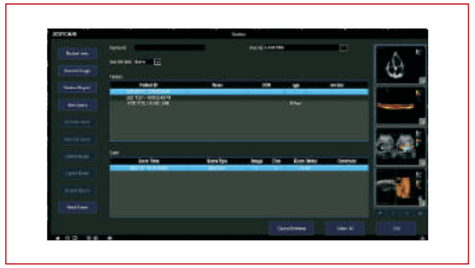
- Multiple user-defined programming buttons
- One-key Automatic Optimization Technology
- One-key operation flow, quick switching and easy to use
- Visualize user-defined presets function (QSave)
- Metadata and image postprocessing
- DICOM 3.0
- USB 3.0 port makes transmission more convenient
- Thumbnail clipboard - easy to review the images and videos


Clipboard


Qsave



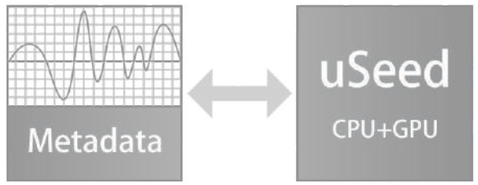
Station


User-defind Buttons



uSeed Platform

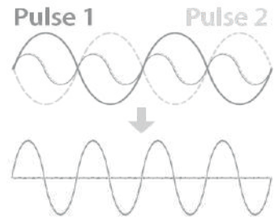
facilitates accurate diagnosis based on uSeed metadata beamforming imaging technology platform. This brand-new platform is developed by CPU + GPU heterogeneous computing technology. The images in uSeed platform are saved as metadata for postprocessing.



Technologies

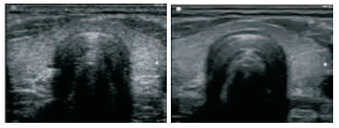
Pulse Inverse Harmonic Imaging PIHI

PIHI reduces the distortion generated by the fundamental wave, and greatly improve the signal-to-noise ratio.



Speckle Reduction Imaging

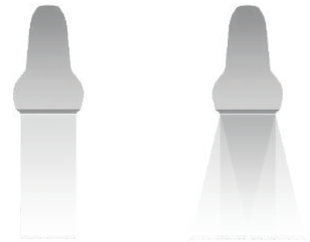
SRI technology significantly reduces the unwanted speckle, provides enhanced tissue boundary and tissue echo for confident clinical diagnosis.



SRI OFF SRI ON

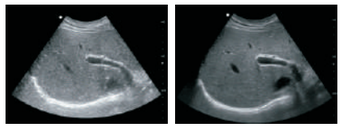
Spatial Compound Imaging

SCI provides better contrast resolution, reduces the speckle noise and smoothes the imaging of homogeneous tissue.



Frequency Composite Imaging

Combine the high penetration of the fundamental frequency and the high resolution of the harmonic frequency to improve the detail resolution and contrast resolution of the near field and the far field to provide the best image quality.



FCI OFF FCI ON

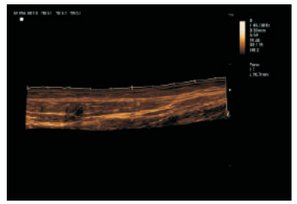


Comprehensive Clinical Applications

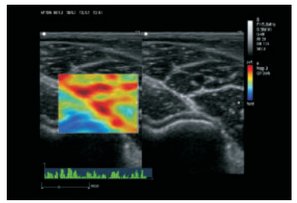
It provides remarkable performance in Abdomen, Gynecology (including endocavity), Obstetric, Cardiology, Small parts (Breast, Testes, Thyroid, etc.), Urology, Musculoskeletal and Peripheral vascular. A variety of imaging modes brings a comprehensive clinical application.

- B Steer, 3D/4D, ZPage, Zlive, PW, CW, AMM, CMM, Panoramic Imaging, Elastic imaging mode, EFOV, TDI
- Auto IMT, Auto NT, Auto Trace, TSI, THI, SRI, SCI, FCI, Biopsy function

Radiology

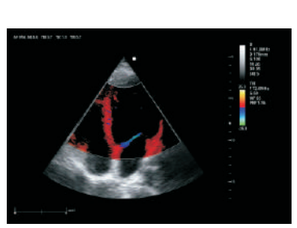


Panoramic Imaging
Panoramic Imaging could help to get extended and complete view of the anatomical structure.

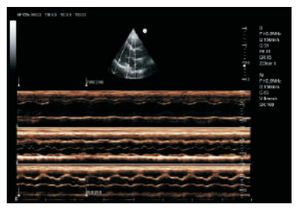


Elastic Imaging
Elastography plays an important role in clinical diagnosis, especially in lesions assessing. Elastography imaging could detect the hardness of nodule, therefore it may help to differentiate malignant from benign lesions.

Cardiology

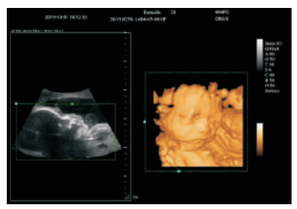


TDI
Tissue Doppler Imaging (TDI) could monitor local myocardial movement, and evaluate the movement quantitatively.



AMM
AMM allows placing up to 3 sample lines at any angles, the thickness and thickening of each ventricular wall could be observed accurately, which is also helpful for the accurate meas urement of ejection fraction.

Obstetrics and Gynecology



3D/4D
advanced 3D/4D mode delivers amazing lifelike 3D/4D images.
With Zlive, I t has the ability to manipulate light and shadow anywhere in the images.

PCDoppler couleur UC-260（Modèle standard）

— —Système de diagnostic par ultrasons Doppler couleur entièrement numérique



1. Conception intelligente

- Système d'imagerie à haute résolution
- Facilité d'utilisation Conception ergonomique
- Meilleure optimisation de la qualité de l'image
- Conception intelligente et légère

2. Informations sur les sondes

Sondes	5 étapes multifréquence	Image
Sonde abdominale 3,5Mhz	2,0, 3,0, 3,5, 4,0, 5,5 MHz	
Sonde linéaire 7,5Mhz	6,0, 6,5, 7,5, 10,0, 12,0 MHz	
Sonde transvaginale 6,5Mhz	5,0, 6,0, 6,5, 7,5, 9,0Mhz	

3. Spécifications techniques

Affichage mode	B, B/B, 4B, B/M, M, B/C, B/C/D, B/D, duplex, triplex, CFM, PW
Signal traitement:	Formation de faisceau entièrement numérique, filtre dynamique, mise au point de réception dynamique en temps réel, traitement spectral, traitement CFM, mise au point dynamique en temps réel, ouverture dynamique dans tous les domaines
Image traitement:	CE Stockage : 16G Puissance réglable Fonction de lissage Amélioration des contours Optimisation à une clé Conversion d'images Filtre mural réglable Ligne de base réglable PRF réglable Optimisation d'image AIO-Auto IZoom : image plein écran instantanée I-Image : optimisation intelligente MBF : Multi Beam Former SA : Imagerie ultrasonique à ouverture synthétique Iclear : Réduction du bruit moucheté CDF : mise au point dynamique continue

Général la mesure	Normal, MSK, ABD, OB, pelvien, urologie, cardiaque, petites pièces, vasculaire
Normale la mesure	Volume, V3L, STD_S, trace de zone, Mtime, MHR, D Time, DV, D Common, D Auto, Area, Angle, CrossLine, STD D, ParalleLine, Mdist, MV, D HR, DA, D Trace
Forfaits ABD	ABD, aorte, rein R et rein L, vessie, prostate
Forfaits OB	Early_OB, Rt-Ovary, Lt-Ovary, Utérus, Fetal_Biome, Long_Bones, AFI
Pelvien Paquets	Utérus, Rt/Lt - Ovaire, Rt/Lt-Follicule,
Urologie paquets	Rt/Lt- mesure des reins, vessie, prostate, Rt/Lt_Testicule
Petites pièces	Rt/Lt_Thyroïde, Rt/Lt_Testicule, Vaisseau, Sein
Vasculaire	Sténose D, sénose A, Intima, Artérielle, Veineuse
MSK	Distance, superficie, angle_hanche
Balayage profondeur	⩾250mm
Sonde éléments	80
Ciné boucle	Automatiquement et manuellement
Stockage d'images format	BMP, JPEG, PNG, DICOM (Option)
Entrée sortie orts	Port vidéo, port S-Vidéo, port distant, port LAN1/2, VGA
Standard Configuration	Unité principale, moniteur LED 12 pouces, sonde convexe 3,5 MHz, sonde linéaire 7,5 MHz, 2 connecteurs de sonde, manuel d'utilisation, disque dur (SSD)
Possibilités	Sonde transvaginale 6,5 MHz, sonde micro-convexe 3,5 MHz, chariot, imprimantes, kit de biopsie,Boîtier en aluminium

BAWERS
MEDICAL EQUIPMENT

BWUC-260



Smart color ultrasound scanner

- High Resolution Imaging System
- Easy-operation Ergonomic Design
- Better Optimize Image Quality
- Smart and Light -Weight Design



Comfortable Key

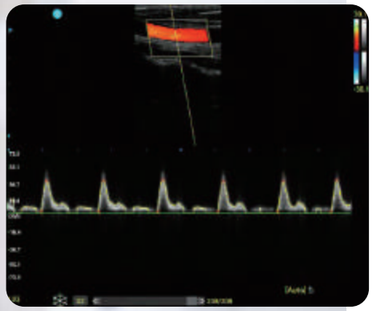


High Resolution Medical Monitor



Abundant peripheral Interface

Ultrasound Performance

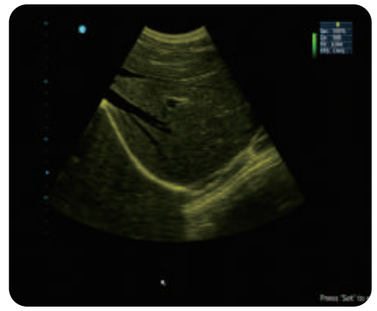


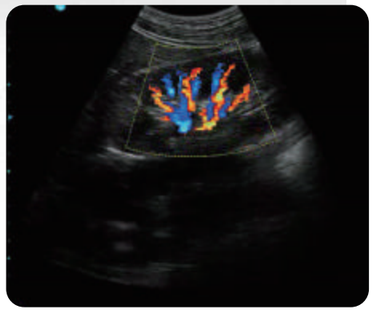
PW: Pulse Wave Doppler

The launch and reception of Ultrasonic pulse wave are processed by one probe, and start to receive echo signal after delay of schedule time.

Pseudo:

Pseudo color processing will change the gray level image to color image. Pseudo color makes the users distinguish the different organs issue. K0’s Pseudo color is more than 15 kinds of different color.



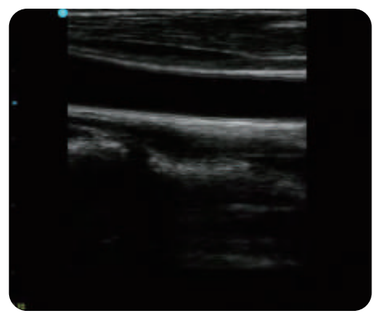


CF: Color Flow Mode

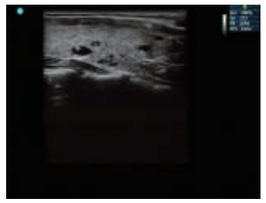
Double ultrasonic scanner system which could show B mode image and Doppler blood flow data(ie.blood flow direction, speed, velocity dispersion) simultaneously.

THI: Tissue Harmonic Imaging

Tissue Harmonic Imaging, which avoids many of the near-field artifacts that affect fundamental imaging. And have the advantage of good signal-noise ratio, better spatial resolution, enhance tissue contrast, Improve deep tissue echo information.



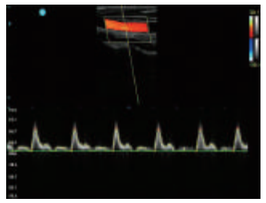
Functional Presentation



Thyroid

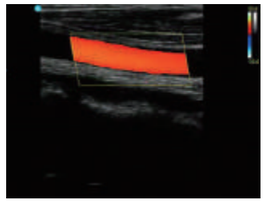


Kidney
Color
Flow

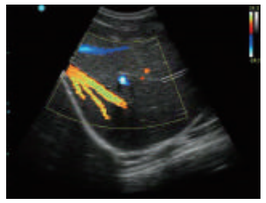


Carotid
Artery
Triplex

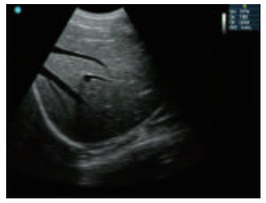
Carotid
Artery
Color
Flow



Liver
Color
Flow



Liver



Carotid
Artery



Specification

01

Standard Specification

02

- Match with linear probe, convex probe, transvaginal probe
- Storage: SSD–16G

BWUC-280

Series Diagnostic Ultrasound System



Datasheet

Revision History

Version	Revision	Date
1.0.1	Updated for V1.0.1	2017.06.16

Product Description

The remarkable HUC-220 series Compact Ultrasound System delivers a powerhouse combination of features to meet the demands of clinic medical imaging applications. The HUC-220 series has been designed from the ground up with high cost performance and ease of operation in mind. Dual active transducer ports design enables switching transducer seamlessly at a finger tip. Embedded win7 operating system empowers smooth system operation and fast system response.

Advanced Technique and Features

- ☑ Tissue Adaptive Imaging
- ☑ Frequency Compounding Imaging
- ☑ Auto Optimization Imaging
- ☑ Adaptive Doppler imaging
- ☑ Language： Chinese, English, Russian, Spanish,Portuguese, French.
- ☑ SRI-Adaptive Speckle Reduction Imaging
- ☑ Adaptive Spatial Compounding Imaging
- ☑ Digital Multi-Beam forming
- ☑ Spectrum Enhancement
- ☑ Auto Doppler trace

System Overview

System Architecture

- ☑ Dual active transducer ports
- ☑ Beam Forming Quad beam
- ☑ Hard Drive 256G SSD
- ☑ Physical Channels 24
- ☑ Processor Memory 2GB
- ☑ Operating System Win7

Dimensions and Weight

- ☑ Dimension 470 mm×335 mm×560mm
- ☑ Net Weight (No battery) 6.2kg

Monitor

- ☑ 15’high resolution LCD monitor
- ☑ Magnetic latch closure
- ☑ Image Size: 1024*780
- ☑ Built-in stereo speaker

I/O Ports

- ☑ VGA
- ☑ HDMI
- ☑ USB 2.0(two)
- ☑ DICOM

Battery

- ☑ Rechargeable 4000mAh capacity
- ☑ Battery indicator on the right of console
- ☑ Battery fully charged in about 2 hours.
- ☑ Battery level icon displayed on the main screen.

AC Power Requirements

- ☑ Voltage 100 -240 V~
- ☑ Frequency 50 Hz/60 Hz

Options

- ☑ Transducers
- ☑ 3Dsoftware
- ☑ Printers
- ☑ Simple Trolley
- ☑ Needle Guide Bracket Kits
- ☑ 4D hardware and software
- ☑ Battery

*Feature is subject to regulatory approval, and may not be available for sale in specific countries.

Imaging

Imaging Modes

☑ B-mode
☑ dual- B mode
☑ 4B mode
☑ M-mode
☑ Color Doppler
☑ PDI
☑ PW Doppler
☑ Display Modes
☑ Available for B and Color(PDI) mode
☑ Allows to switch between two images
☑ Displays two image side-by-side, two frozen or one active/one frozen.

Imaging Mode Combinations

☑ B
☑ 4B
☑ B+M
☑ B/C(PDI), Single
☑ B/C(PDI), Dual
☑ B+B/C(PDI), Dual live
☑ B+PW (Duplex)
☑ B+PW (Update)
☑ B/C(PDI)+PW (Triplex)

User Interface

☑ Interactive back-lighting
☑ User-defined keys
☑ 6 shortcut menu knobs
☑ 8 Stage TGC sliders
☑ Standard keyboard for text input
☑ Brightness and contrast adjustable

Main Screen Display

Information Field

- Brand logo
- Hospital name
- Date
- Time
- Patient ID
- Patient Name
- Patient Gender
- Patient Age
- Transducer model
- Body parts icon
- application

Image Field

- Imaging parameters
- Gray Scale bar
- Depth Scale
- Measured result window
- TGC curve
- Mechanical Index (MI)
- Thermal Index (TI)

Editable Report

- Measurement and calculation results import
- Printer adjustable
- Measurement and calculation results for multiple fetus.
- Picture size adjustable

Thumbnail Field

- All captured static images and cine clips
- Shortcut keys for selecting, viewing, deleting,exporting images.

User status Field

- Cine bar
- Exit icon for exiting Raw Data review status.
- Image Storage state
- Real time power dynamic display
- Battery Icon

*Feature is subject to regulatory approval, and may not be available for sale in specific countries.

Transducers Application and Biopsy Guide

Transducer		Applications	Transducer		Applications
R60 Convex 3.5M		Abdomen Fetal / Obstetrics Urology Gynecology Musculoskeletal	R10 cavity 6.5M		Obstetrics Gynecology Urology
L40 Linear 7.5M		Small parts Peripheral Vascular Musculoskeletal	R20 Micro 3.5M		Small Parts Peripheral Vascular Musculoskeletal
R15 Micro 6.5M		Abdomen Small Parts Peripheral Vascular Musculoskeletal	4D		abdomen Obstetrics
L64 Rectal 6.0M		Trans-rectal Urology	R20 Micro 7.5M		Abdomen Small Parts Peripheral Vascular Musculoskeletal

Transducer Specifications

performance indexes	probe type and nominal frequency			
	2.0≤f＜4.0	2.0≤f＜5.0	5.0≤f＜8.0	5.0≤f＜12.0
a) probe type and model	4D	Convex array (type TC60A)	Cavity (type TC10A)	Linear array (type TL40A)
b) nominal frequency (MHz)	3.5	3.5	6.5	7.5
c) Scan depth(mm)	≥140	≥160	≥40	≥50
d) Lateral resolution (mm)	≤3(depth≤80) ≤4(80＜depth≤130)	≤3(depth≤80) ≤4(80＜depth≤130)	≤2(depth≤30)	≤2(depth≤40)
e) Axial resolution (mm)	≤2(depth≤80)	≤2(depth≤80) ≤3(80＜depth≤130)	≤1(depth≤40)	≤1(depth≤50)
f) Blind area (mm)	≤7	≤5	≤4	≤3
g) Transverse geometry precision (%)	≤20	≤15	≤10	≤10
h) Longitudinal geometric location accuracy (%)	≤10	≤10	≤5	≤5
i) Slice thickness (mm)	≤5	≤5	≤5	≤5
j) Perimeter and area measured deviation (%)	≤±20	≤±20	≤±20	≤±20
k) M mode time display error (%)	≤±10	≤±10	≤±10	≤±10

*Feature is subject to regulatory approval, and may not be available for sale in specific countries.

Traduit de Anglais vers Français - www.onlinedoctranslator.com

BWUC-280

Système de diagnostic à ultrasons en série





Fiche de données

Historique des révisions

Version	Révision	Date
1.0.1	Mise à jour pour la version 1.0.1	16/06/2017

Description du produit

Le remarquable système d'échographie compact de la série BWUC-220 offre une puissante combinaison de fonctionnalités pour répondre aux exigences des applications d'imagerie médicale clinique.La série HUC-220 a été conçue dès le départ avec à l'esprit des performances de coût élevées et une facilité d'utilisation. La conception à deux ports de transducteur actifs permet de changer de transducteur de manière transparente du bout des doigts. Le système d'exploitation Win7 intégré permet un fonctionnement fluide du système et une réponse rapide du système.

Technique et fonctionnalités avancées

☑Imagerie adaptative des tissus☑ ♦☼✋ 📁 ✋❍♋♑♏❒♓♏ ♋♎♋◘♦♋♦♓❖♏ ♎♏ ❒🡅♎◆♍♦♓☐■ ♎♏⬩ ♦♋♍♒♏⬩

☑Imagerie par composition de fréquence☑ ✋❍♋♑♏❒♓♏ ♋♎♋◘♦♋♦♓❖♏ ♎♏ ♍☐❍◘☐⬩♓♦♓☐■ ⬩◘♋♦♓♋●♏

☑Imagerie à optimisation automatique☑ ☞☐❒❍♋♦♓☐■ ■◆❍🡅❒♓❑◆♏ ❍◆●♦♓↗♋♓⬩♍♏♋◆☒

☑Imagerie Doppler adaptative☑ ✌❍🡅●♓☐❒♋♦♓☐■ ♎◆ ⬩◘♏♍♦❒♏

☑Langue : chinois, anglais, russe,☑ ❄❒♋♍🡅 👈☐◘☐●♏❒ ♋◆♦☐❍♋♦♓❑◆♏

Espagnol, portugais, français.

Présentation du système

Architecture du système

☑Ports de transducteur actifs doubles☑ 👌♋■♋◆☒ ◘♒🖂⬩♓❑◆♏⬩ 🗎🗐

☑Formation de faisceaux Faisceau quadruple☑ 💣🡅❍☐♓❒♏ ♎◆ ◘❒☐♍♏⬩⬩♏◆❒ 🗎 ☝☐

☑Disque dur SSD 256 Go☑ ♦🖂⬩♦➔❍♏ ♎🕯♏☒◘●☐♓♦♋♦♓☐■ ✙♓■📻

Dimensions et poids

☑Dimensions 470 mm × 335 mm × 560 mm☑ 🏳☐♓♎⬩ ■♏♦ ☎⬩♋■⬩ ♌♋♦♦♏❒♓♏◑ ⌛📻🗎 &♑

Moniteur

☑Moniteur LCD haute résolution 15'☑ ❄♋♓●●♏ ♎♏ ●🕯♓❍♋♑♏ 💻 🗁🗀🗎🗐✉📻☝🗀

☑Fermeture à loquet magnétique☑ 👂♋◆♦📁◘♋❒●♏◆❒ ⬩♦🡅❒🡅☐ ♓■♦🡅♑❒🡅

Ports d'E/S

☑VGA☑ ✝♦✍ 🗎📠🗀 ☎♎♏◆☒◑

☑HDMI☑ 👈✋👌⚐💣

Batterie

☑Capacité rechargeable de 4000 mAh☑ ✍♋♦♦♏❒♓♏ ♍☐❍◘●➔♦♏❍♏■♦ ♍♒♋❒♑🡅♏ ♏■ 🗎 ♒♏◆❒♏⬩ ♏■❖♓❒☐■📠

☑Indicateur de batterie à droite de la console☑ ♓♍♎■♏ ♎♏ ■♓❖♏♋◆ ♎♏ ♌♋♦♦♏❒♓♏ ♋♐♐♓♍♒♑♏ ⬩◆❒ ●♗♑♍ ❒♋■ ◘❒♓■♍♓◘♋●♘

Exigences en matière d'alimentation secteur

☑Tension 100 -240 V~☑ ☞❒♑❑◆♏■♍♏ ♕🗀 ♗⌘♘⌛🗀 ♗⌘

Options

☑Transducteurs☑ ☹♓♦⬩ ♎♏ ⬩◆◘◘◘❒♦ ♎♏ ♑◆♓♎♏ ♎♗♋♓♑◆♓●●♏

☑Logiciel 3D☑ 💣♋♦♑❒♓♏● ♏♦ ●◘♑♓♍♓♏● 🗐♓

☑Imprimantes☑ ✍♋♦♦♏❒♓♏

☑Chariot simple

*Cette fonctionnalité est soumise à l'approbation réglementaire et peut ne pas être disponible à la vente dans certains pays.

Imagerie

Modes d'imagerie

☑Mode B☑ ❍□♎♏ ♎□◆♌●♏ 👌

☑Mode 4B☑ 💣□♎♏ 💣

☑Doppler couleur☑ 🫳🫴🖐

☑Doppler pulsé☑ 💣□♎♏♦ ♎♗♋➶➶♓♍♒♋♑♏

☑ 🫴♓♦□□■♓♌●♏ □□◆❒ ●♏♦ ❍□♎♏♦ 👌 ♏♦ 👌□◆●♏◆❒ ☎🫳🫴🖐☽☑ 🫳♏❒ ❍♏♦ ♎♏ ♌♋♦♍◆●♏❒ ♏■♦❒♏ ♎♏◆☒ ♓❍♋♑♏♦

☑Affiche deux images côte à côte, deux figées ou une active/une figée.

Combinaisons de modes d'imagerie

☑B☑ 🗐👌

☑B+M☑ 👌🫰👌☎🫳🫴🖐☽🫰 ♦♓❍□●♏

☑B/C(PDI), double☑ 👌🖃👌🫰👌☎🫳🫴🖐 ☽🫰 ♎□◆♌●♏ ♎♓❒♏♍♦

☑B+PW (Duplex)☑ 👌🖃🫳⌖ ☎💣♓♦♏ → ♂□◆❒☽

☑B/C(PDI)+PW (Triplex)

Interface utilisateur

☑Rétroéclairage interactif☑ ❄□◆♍♒♏♦ ♎🡅➶♓■♓♏♦ □♋❒ ●♗◆♦♓●♓♦♋♦♏◆❒

☑ 6 boutons de menu contextuel· Curseurs TGC à 8 niveaux

☑ 👌●♋❖♓♏❒ ♦♦♋■♎♋❒♎ □□◆❒ ●♋ ♦♋♓♦♓♏ ♎♏ ♦♏☒♦♏☑ ☹◆❍♓■□♦ ♓♦🡅 ♏♦ ♍□■♦❒♋♦♦♏ ❒🡅♑●♋♌●♏♦

Affichage de l'écran principal

Champ d'information

- Logo de la marque - Nom de l'hôpital
- Date - Heure
- ID du patient - Nom du patient
- Sexe du patient - Âge du patient
- Modèle de transducteur - Icône des parties du corps
- application

Champ d'image

- Paramètres d'imagerie - Barre d'échelle de gris
- Échelle de profondeur - Fenêtre de résultat mesurée
- Courbe TGC - Indice Mécanique (IM)
- Indice thermique (IT)

Rapport modifiable

- Importation des résultats de mesure et de calcul - Imprimante réglable
- Résultats de mesure et de calcul pour plusieurs fœtus. - Taille de l'image réglable

Champ de vignettes

- Toutes les images statiques capturées et les clips cinématographiques
- Raccourcis clavier pour sélectionner, visualiser, supprimer et exporter des images.

Champ Statut de l'utilisateur

- Barre Ciné - Icône de sortie pour quitter le statut de révision des données brutes.
- État de stockage des images - Affichage dynamique de la puissance en temps réel
- Icône de batterie

*Cette fonctionnalité est soumise à l'approbation réglementaire et peut ne pas être disponible à la vente dans certains pays.

Guide d'application et de biopsie des transducteurs

Applications des transducteurs Applications des transducteurs

R60 Convexe 3,5 millions		Abdomen Foetal / Obstétrique Urologie Gynécologie Musculosquelettique	R10 cavité 6,5 millions		Obstétrique Gynécologie Urologie
L40 Linéaire 7,5 millions		Petites pièces Périphérique Vasculaire Musculosquelettique	R20 Micro 3,5 millions		Petites pièces Périphérique Vasculaire Musculosquelettique
R15 Micro 6,5 millions		Abdomen Petites pièces Périphérique Vasculaire Musculosquelettique	4D		abdomen Obstétrique
L64 Rectal 6,0 M		Transrectale Urologie	R20 Micro 7,5 millions		Abdomen Petites pièces Périphérique Vasculaire Musculosquelettique

Spécifications du transducteur

performanceindex	type de sonde et fréquence nominale			
	2,0≤f＜4,0	2,0≤f＜5,0	5,0≤f＜8,0	5,0≤f＜12,0
a) type et modèle de sonde	4D	Réseau convexe (type TC60A)	Cavité (type TC10A)	Réseau linéaire (type TL40A)
b) fréquence nominale (MHz)	3.5	3.5	6.5	7.5
c) Profondeur de numérisation (mm)	≥140	≥160	≥40	≥50
d) Résolution latérale (mm)	≤3(profondeur≤80) ≤4(80＜ profondeur≤130)	≤3(profondeur≤80) ≤4(80＜ profondeur≤130)	≤2(profondeur≤ 30)	≤2(profondeur≤40)
e) Résolution axiale (mm)	≤2(profondeur≤80)	≤2(profondeur≤80) ≤3(80＜ profondeur≤130)	≤1(profondeur≤ 40)	≤1(profondeur≤50)
f) Les aveugles sontun(mm)	≤7	≤5	≤4	≤3
g) Précision de la géométrie transversale (%)	≤20	≤15	≤10	≤10
h) Précision de localisation géométrique longitudinale (%)	≤10	≤10	≤5	≤5
i) Épaisseur de la tranche (mm)	≤5	≤5	≤5	≤5

j)Périmètreetzone mesurédéviation(%)	≤±20	≤±20	≤±20	≤±20
k) Erreur d'affichage de l'heure en mode M (%)	≤±10	≤±10	≤±10	≤±10

*Cette fonctionnalité est soumise à l'approbation réglementaire et peut ne pas être disponible à la vente dans certains pays.

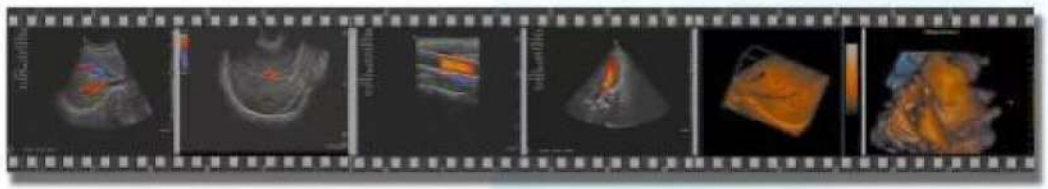
BAWERS
MEDICAL EQUIPMENT

Color Doppler Ultrasound Diagnostic System

BWUC-310

- 15 inch full view medical HD display;
- Support convex、cavity、lieaner、phased、micro-convex、4D ;
- Display model：B、2B、4B、M、CFM、PDI、PW、CW;
- Support color and PW, three synchronization;
- High-precision digital continuous beamformer;
- THI（Tissue Harmonic Imaging）;
- Dynamic frequency fusion imaging technology;
- Precise SRI adaptive speckle noise suppression;
- Adaptive image optimization processing technology;
- High-precision delay point-by-point dynamic receiver focus;
- TI（Trapezoidal Imaging）;
- Automatic measurement of IMT;
- Activation two probe interfaces;
- Built-in lithium battery as standard;
- Optional free anatomy 3D imaging or 4D imaging;











BAWERS
MEDICAL EQUIPMENT

BWUC-310 Series Diagnostic Ultrasound System



Datasheet

Revision History

Version	Revision	Date
1.0.1	Updated for V1.0.1	2017.06.16

Product Description

The remarkable C60 series Compact Ultrasound System delivers a powerhouse combination of features to meet the demands of clinic medical imaging applications. C60 fulfills Abdomen, OB/GYN, Cardiac and vessels etc applications to fit your routine scanning needs while its color mode will help you for more accurate and efficient diagnosis of lesions. Embedded win7 operating system empowers smooth system operation and fast system response.

Advanced Technique and Features

- ☑ Tissue Adaptive Imaging
- ☑ Frequency Compounding Imaging
- ☑ Inverse Tissue Harmonic Imaging
- ☑ Digital Multi-Beam forming
- ☑ Adaptive Doppler imaging
- ☑ Language：Chinese, English, Russian, Spanish,Portuguese, French.
- ☑ SRI-Adaptive Speckle Reduction Imaging
- ☑ Adaptive Spatial Compounding Imaging
- ☑ Auto Optimization Imaging
- ☑ Trapezoid Imaging
- ☑ Spectrum Enhancement
- ☑ Auto Doppler trace

System Overview

System Architecture

- ☑ Dual active transducer ports
- ☑ Beam Forming Quad beam
- ☑ Hard Drive 256G SSD
- ☑ Physical Channels 64
- ☑ Processor Memory 4GB
- ☑ Operating System Win7

Dimensions and Weight

- ☑ Dimension 470 mm×335 mm×560mm
- ☑ Net Weight (No battery) 6.6kg

Monitor

- ☑ 15’high resolution LCD monitor
- ☑ Magnetic latch closure
- ☑ Image Size: 1024*780
- ☑ Built-in stereo speaker

I/O Ports

- ☑ VGA
- ☑ HDMI
- ☑ USB 2.0(two)
- ☑ DICOM

Battery

- ☑ Rechargeable 4000mAh capacity
- ☑ Battery indicator on the right of console
- ☑ Battery fully charged in about 2 hours.
- ☑ Battery level icon displayed on the main screen.

AC Power Requirements

- ☑ Voltage 100 -240 V~
- ☑ Frequency 50 Hz/60 Hz

Options

- ☑ Transducers
- ☑ 3Dsoftware
- ☑ Printers
- ☑ Simple Trolley
- ☑ Needle Guide Bracket Kits
- ☑ 4D hardware and software
- ☑ Battery

Imaging

Imaging Modes

☑ B-mode
☑ dual- B mode
☑ 4B mode
☑ M-mode
☑ Color Doppler
☑ PDI
☑ PW Doppler
☑ CW Doppler
☑ Display Modes
☑ Available for B and Color(PDI) mode.
☑ Allows to switch between two images
☑ Displays two image side-by-side, two frozen or one active/one frozen.

Imaging Mode Combinations

☑ B+M
☑ B/C(PDI), Single
☑ B/C(PDI or DPDI), Dual
☑ B+B/C(PDI), Dual live
☑ B+PW (Duplex)
☑ B+PW (Update)
☑ B/C(PDI)+PW (Triplex)
☑ B+CW (Update)
☑ B/C(PDI)+CW (Update)Control Panel

User Interface

☑ Interactive back-lighting
☑ User-defined keys
☑ 6 shortcut menu knobs
☑ 8 Stage TGC sliders
☑ Standard keyboard for text input
☑ Brightness and contrast adjustable

Main Screen Display

Information Field

- Brand logo
- Hospital name
- Date
- Time
- Patient ID
- Patient Name
- Patient Gender
- Patient Age
- Transducer model
- Body parts icon
- application

Image Field

- Imaging parameters
- Gray Scale bar
- Depth Scale
- Measured result window
- TGC curve
- Mechanical Index (MI)
- Thermal Index (TI)

Editable Report

- Measurement and calculation results import
- Printer adjustable
- Measurement and calculation results for multiple fetus.
- Picture size adjustable

Thumbnail Field

- All captured static images and cine clips
- Shortcut keys for selecting, viewing, deleting,exporting images.

User status Field

- Cine bar
- Exit icon for exiting Raw Data review status.
- Image Storage state
- Real time power dynamic display
- Battery Icon

*Feature is subject to regulatory approval, and may not be available for sale in specific countries.

Transducers Application and Biopsy Guide

Transducer		Applications	Transducer		Applications
R60 Convex 3.5M		Abdomen Fetal / Obstetrics Urology Gynecology Musculoskeletal	R10 Trans- vaginal 6.5M		Obstetrics Gynecology Urology
L40 Linear 7.5M		Small parts Peripheral Vascular Musculoskeletal	R20 Micro 3.5M		Small Parts Peripheral Vascular Musculoskeletal
Phased 3.0M		Adult Cardiac Abdomen Pediatric Cardiac Adult Cephalic	4D		abdomen Obstetrics
Phased 5.0M		Abdomen Pediatric Cardiac Adult Cephalic	R15 Micro 6.5M		Abdomen Small Parts Peripheral Vascular Musculoskeletal
L64 Rectal 6.0M		Trans-rectal Urology	R20 Micro 7.5M		Abdomen Small Parts Peripheral Vascular Musculoskeletal

Transducer Specifications

Transducer									
Transducer Type	Convex	Phased	Linear	Micro -convex	Endocavity	Micro -convex	Phased	4D	Micro -convex
Convex Radius	60mm		38mm	20mm	10mm	15mm		40mm	20mm
Elements	128	64	128	128	128	128	64	128	128
Bandwidth	2-6MHz	2-5MHz	5-12MHz	3-6MHz	5-10MHz	4-8MHz	3-7MHz	2-5MHz	5-10MHz
FOV	60°	90°		100°	150°	89°	90°	68°	109°
Display Depth									
Biopsy Guide	yes	No	yes	yes	yes	yes	No	yes	yes

*Feature is subject to regulatory approval, and may not be available for sale in specific countries.

BAWERS

MEDICAL EQUIPMENT





Technologies

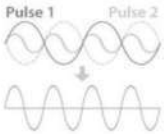
uSeed Platform

facilitates accurate diagnosis based on uSeed metadata beamforming imaging technology platform. This brand-new platform is developed by CPU + GPU heterogeneous computing technology. The images in uSeed platform are saved as metadata for postprocessing.



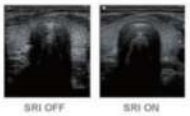
Pulse Inverse Harmonic Imaging PIHI

PIHI reduces the distortion generated by the fundamental wave, and greatly improve the signal-to-noise ratio.



Speckle Reduction Imaging

SRI technology significantly reduces the unwanted speckle, provides enhanced tissue boundary and tissue echo for confident clinical diagnosis.



Spatial Compound Imaging

SCI provides better contrast resolution, reduces the speckle noise and smoothes the imaging of homogeneous tissue.

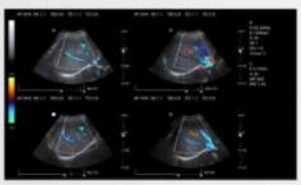




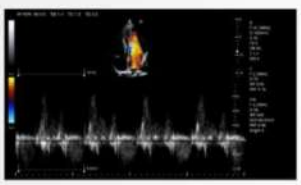
Comprehensive clinical applications

provides remarkable performance in Abdomen, Gynecology (including endovaginal), Obstetric,Cardiology, Small parts (Breast, Testes, Thyroid, etc.) , Urology, Musculoskeletal and Peripheral vascular.
A variety of imaging modes brings a comprehensive clinical application.
- B Steer, CW, Efov, PDI, DPDI
- Auto IMT, TSI, THI, SRI, SCI, FCI, Biopsy function

ould be your first choice.



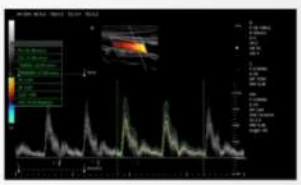
Liver 4C mode



Four chamber CW mode



Bladder & Uterus



CCA PW Auto trace



Elbow Join

is a brilliant choice for those who require outstanding image quality, excellent portability and intelligent workflow.



Features

- 2D, CFM, M, PW, CW, CMM, DPDI, AMM, 3D/4D, ZPage, ZLive, Elastic Imaging, Panoramic Imaging
- THI, SRI, SCI, TSI, FCI , EFov, HR flow, B-steer
- Standard Auto IMT measurement
- Support local and global amplification
- Support PW auto trace and auto calculation
- Preposed USB ports, supporting multi-data transmission
- Dual Live and Multi-synchronization technologies
- Biopsy function

Ergonomic Design





Ergonomic Design

HUC 960's excellent ergonomics may help have a comfortable examination environmentand improve work efficiency.





21.5" medical LCD monitor with an articulating arm



13.3" high sensitivity touch screen
- Angle adjustable



Optimized control panel
- Angle adjustable
- Height adjustable



Exclusive holder for endocavity transducer



4 universal transducer connectors

uSeed Platform

BWUC 960 facilitates accurate diagnosis based on uSeed metadata beamforming imaging technology platform. This brand-new platform is developed by CPU + GPU heterogeneous computing
technology. The images in uSeed platform are saved
as metadata for postprocessing.

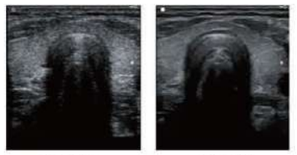


Make Efficient and Fast Workflow a Daily Companion

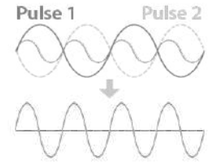
- Efficient multi-function touch screen
- Multiple user-defined programming knobs
- One-key Automatic Optimization Technology
- One-key operation flow, quick switching and easy to use
- Visualize user-defined presets function (QSave)
- Metadata and image postprocessing
- DICOM 3.0
- USB 3.0 ports, built-in DVD, make transmission more convenient

Technologies

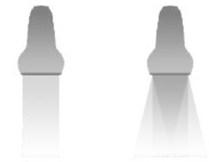
Speckle Reduction Imaging
SRI technology significantly reduces the unwanted speckle, provides enhanced tissue boundary and tissue echo for confident clinical diagnosis.



Pulse Inverse Harmonic Imaging PIHI
PIHI reduces the distortion generated by the fundamental wave, and greatly improve the signal-to-noise ratio.



Spatial Compound Imaging
SCI provides better contrast resolution, reduces the speckle noise and smoothes the imaging of homogeneous tissue.





BAWERS
MEDICAL EQUIPMENT

BWX10i

Advanced Portable Ultrasound System





SMART IMAGING FOR ALL NEEDS

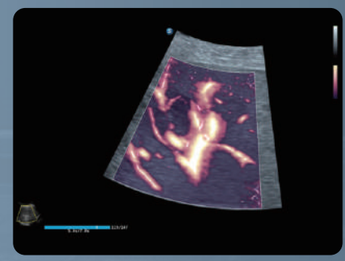
U-X10|2025

BWX10 *i*

As a versatile core solution in Bawer's portable ultrasound portfolio, the BWX10i integrates sophisticated technology with essential clinical functions. It supports efficient examination workflows across diverse settings, empowering medical professionals to deliver confident diagnoses within fundamental care environments.

Flow Revealed, Details Defined

FHR



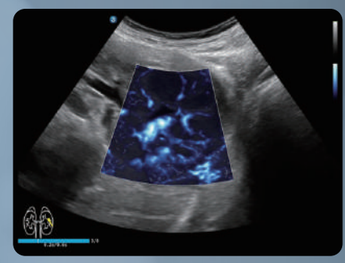
FHR enables observation of microvascular perfusion into organs with high frame rates, elevated sensitivity, and superior resolution through refined scanning methodologies and algorithms. Its innovative respiratory motion compensation ensures accurate depiction of low-velocity blood flow for more realistic hemodynamics.

Bright Flow



Bright Flow provides 3D-like Color Doppler flow visualization without requiring a volumetric transducer, thereby enhancing the definition of the vessel wall boundary.

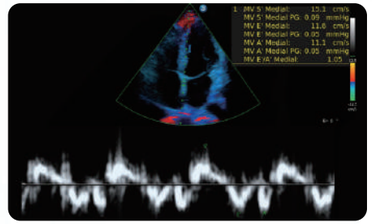
Micro F



Micro F efficiently distinguishes subtle blood flow signals from overlaying tissue motion, enabling enhanced sensitivity and spatial resolution in hemodynamic depiction.

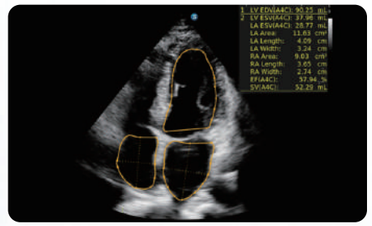


Essential Access, Steady Performance



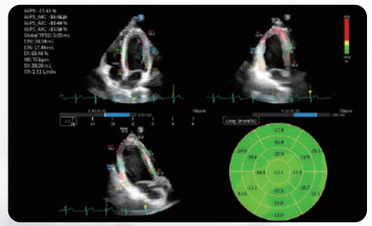
S-CV (PW&M)

Provides intelligent, real-time spectral Doppler measurement during live scanning. Automatically identifies cardiac views, positions sample volume and calculates measurements - all with minimal user intervention for efficient workflow.



S-CV (2D meas.)

Delivers one-click 2D cardiac measurement on frozen images. With a single click, it intelligently analyzes cardiac structures, performs comprehensive measurements (dimensions, areas, and functional indices like EF).



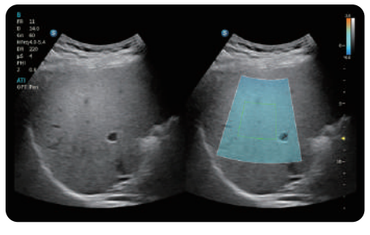
MQA

MQA supports the analysis of myocardial motion across multiple views, and generates analysis curves for parameters including strain, strain rate, velocity, displacement, etc.



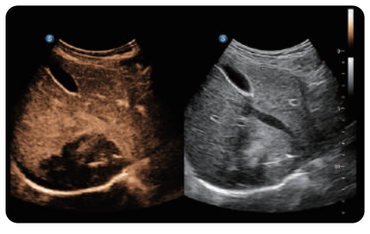
3D/4D Imaging

3D/4D imaging delivers clear fetal visualization, supporting accurate anatomical assessment, growth monitoring, and evidence-based clinical decision-making throughout pregnancy.



ATI

ATI (Acoustic Attenuation Imaging) enables quantitative assessment of liver steatosis by measuring the attenuation coefficient, assisting clinicians in evaluating the degree of steatosis for a more reliable prognosis.



CEUS

CEUS dynamically displays the perfusion process of lesions in detail. The combination of MFI, MF Time, and MFI Mix allows doctors to assess lesion perfusion from multiple perspectives, thereby enabling more precise and efficient diagnosis.



Auto OB

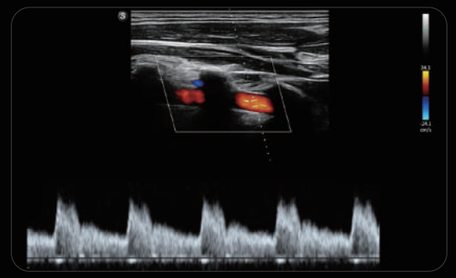
The automatic measurement of fetal biparietal diameter, head circumference, abdominal circumference, and humerus length effectively decreases the number of keystrokes, thereby saving doctors' valuable working time.



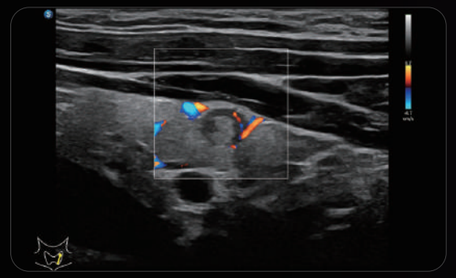
Auto NT

The Auto NT function has the remarkable ability to automatically identify the nuchal translucency of the fetus and precisely measure its maximum diameter. This empowers doctors to efficiently screen for potential chromosomal abnormalities and ensure proper prenatal care.

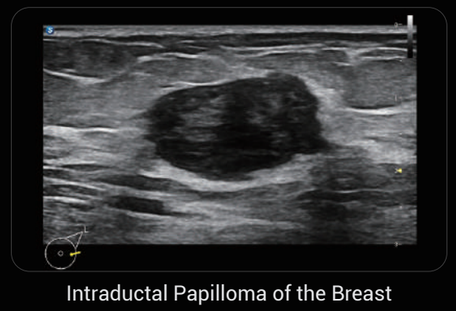
Image Gallery



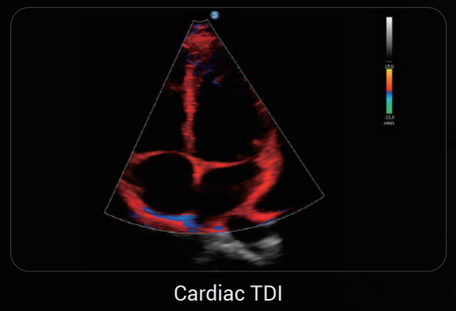
Vertebral Artery



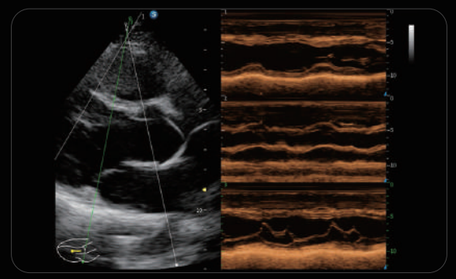
SR Flow of Papillary Thyroid Cancer



Intraductal Papilloma of the Breast



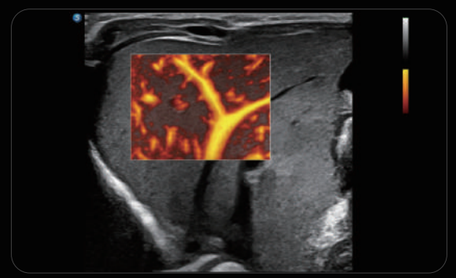
Cardiac TDI



Cardiac AMM



Bright Flow of Hepatic Coronary Arteries Calcification



Micro F of Neonatal Liver



Gallstones

Elegant in Form, Potent in Performance



Measure with Ease

The X10i boasts a trackball with adjustable sensitivity, facilitating doctors to carry out measurements more conveniently.



Triple Vision Wonders

Experience precision and clarity with the most cutting-edge triple vision setup!

- Innovative Display of Battery Status
- **12.3-inch** LCD Touchscreen
- **15.6-inch** LCD Monitor



Charge with A Click

The X10i's magnetic charging port delivers effortless power-ups while protecting cables from long-term wear and tear.



Expand Your Possibilities

Support **1 to 4** probe extender and unlock endless possibilities in ultrasound imaging!



Charge Less, Scan More

The E-Pack delivers an additional runtime, extendable to **8 hours** when paired with trolley batteries-ensuring uninterrupted critical workflows.



BWHUC-500

Portable Color Doppler Ultrasonic Diagnostic System

Datasheet

BAWERS
MEDICAL EQUIPMENT



HUC-500

Portable Color Doppler Ultrasonic Diagnostic System

1 System Overview

1.1 Clinical Applications

- Abdomen
- Obstetrics
- Gynecology
- Urology
- Cardiology
- Pediatric
- Small Parts
- Blood Vessel
- Superficial
- Orthopedic
- MSK
- Nerve
- Custom

1.2 Transducer Types

- Convex Transducer
- Linear array Transducer
- Trans-vaginal Transducer
- Micro-convex Transducer
- Phased array Transducer
- 4D volume Transducer

1.3 Imaging modes

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- Anatomic M mode
- Panoramic
- Color panoramic
- Trapezoidal (Linear transducer)
- Extended imaging (Efov)
- CW -Mode
- TDI (TVI, TVD, TVM, TEI)
- 3D/4D Mode

1.4 Standard features

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- CW Mode
- Anatomic M mode
- Panoramic
- Color panoramic
- Trapezoidal (Linear transducer)
- Extended imaging (Efov)
- Tissue Specific Imaging (TSI)
- Tissue Harmonic Imaging (THI)
- Speckle Reduction Imaging (SRI)
- Spatial Composite Imaging (SCI)
- Frequency Composite Imaging (FCI)
- B/D Chromatic Imaging
- Pan Zoom
- Local Zoom
- Auto Optimization

BAWERS
MEDICAL EQUIPMENT

- Image Rotation
- Auto Calculate
- Auto IMT
- Archive management
- Raw data
- Multiple pregnancies
- HR Flow
- Biopsy function
- Velocity tag
- HPRF
- Imaging postprocessing
- Imaging preprocessing
- 15.6-inch monitor
- Elastic imaging
- TDI（TVI,TEI,TVM, TVD）
- Static 3D
- 4D Module
- Laser/thermal printer
- Foot Switch
- Puncture
- DICOM 3.0

1.5 Storage Format

- Image: RAW, JPG/AVI, DCM, BMP/AVI, TIFF/AVI
- Report: PDF

2 Physical Specification

2.1 Dimension and weight

- Width: approx. 380mm
- Height: approx. 361mm
- Thickness: approx.131mm
- Net Weight: approx. 6.3kg (without battery)

2.2 Monitor

- 15.6-inch high resolution color display screen
- Resolution: 1920*1080
- Tilt angle range 0-70° (U/D)

2.4 Transducer ports and holders

- 3 activated Transducer ports
- Removable Transducer holders

2.5 Electrical power

- AC adapter Input
  - Voltage: 100-240V~
  - Frequency: 50/60Hz
  - Output Voltage: 19V±1
  - Output electric current: 5.8A
- Lithium Battery
  - Battery Capacity: 10000mA
  - Output Voltage: 14.4V

2.6 Operation Environment

- Ambient temperature: 5℃~+40℃
- Relative humidity: 25%~85%
- Atmospheric pressure: 70kpa ~ 106kpa

2.7 Storage &Transport Environment

- Ambient temperature: -20℃~+55℃
- Relative humidity: 10%~95%
- Atmospheric pressure: 50kpa-106kpa

2.8. Main body

- 500G HDD
- Operating system -- Linux

3 User Interface

3.1 Monitor information

- Common info:
  - Logo
  - Hospital name
  - Display Parameters
  - System date &Time
  - Clinical application

BAWERS
MEDICAL EQUIPMENT

- Transducer type
- Exam mode
- Patient Name, Age, Gender
- Transducer mark
- Focus position
- Parallel scale & Vertical scale
- Freeze mark
- TGC Curve
- Acoustic power
- Volume histogram
- Gray bar/ Color bar
- Recycle bin icon

3.3 Control panel

- Power On/Off
- Imaging Mode buttons
  - B, C, PW, M, Quad,3D/4D, PDI, CW, TDI, ECG, Biopsy
- Parameter shortcut keys
  - Depth
  - Focus position
  - Angle/steer
  - Auto
  - Zoom
  - Gain
- User-defined programming key
  - Q1, Q2, Q3, Q4, Save 1, Save 2, Print
- Freeze button
- Function
  - Measure
  - Caliper
  - Dual
  - Quad
  - Update
  - Text
  - Body Mark
  - Arrow
  - Cursor
  - Clean
  - Print
  - Transducer
  - Patient
  - Report
  - Review
  - End Exam
  - Help
  - Station
  - Setup
  - QSave
- 8-segment TGC control
- Trackball
- Keyboard

3.4 System boot-up

- Boot-up in about 90s
- Shut down in about 5s
- Standby time: 1, 10,30, 60 min
- Screen saver: 1, 10,30, 60 min

3.5 Comments & Arrow

- Arrow position adjustable
- Arrow size adjustable
- Arrow direction adjustable
- Comments position adjustable
- Comments fontsize adjustable
- User-defined adding and deleting

3.6 Body Marks

- More than 200 body-marks
- User-defined adding and deleting

BAWERS
MEDICAL EQUIPMENT

- Drag to change the position

4 Imaging Parameters

4.1 B mode

- Display Format: B (Single), 2B (Dual), 4B (Quad)
- U/D Reverse: On, Off
- L/R Reverse: On, Off
- Dual Live
- Depth: Depend on different transducer
- Frequency: Depend on different transducers
- THI:
  →Tissue Harmonic Imaging
  →Available on all transducers
- B steer:
  →For linear transducer
  →Left 4 steps adjustable
  →Right 4 steps adjustable
- Gain: 0~100
- Pan Zoom: Z0.8, Z0.9,Z1.0, Z1.1, Z1.2, Z1.4,Z1.6, Z1.8, Z2.0，Z3.0，Z4.0，Z5.0, Z6.0, Z7.0, Z 8.0, Z9.0, Z10.0
- Horizontal Ruler: Hide/Display
- Center Line: Convex transducer
- Image Quality: Pen, Gen, Res, HPen, HPen-Gen, HGen, HRes
- Dyn Ra (Dynamic range): 30-180, 5/step
- ZClear: 0~6, 1/step
- Persistence: 0~6, 1/step
- Gray Map: 1~10, 1/step
- Chrome:0~8, 1/step
- A.Power: 1~20, 1/step
- Rotation: 0°, 90°, 180°, 270°
- Focus Number: Up to 8
- FCI (Frequency Composite Imaging):
  →0 or 1
- TSI: General, Muscle, Fat, Fluid
- Field of View: 1~8, 1/step
- SCI (Spatial Composite Imaging）：0~7, 1/step
- Line Density: L, H
- EFOV:
  →0, 1, 2 Adjustable
  →Extended FOV available on Convex, Linear, Trans-vaginal, 4D volume

- M mode
  - Display Format
    →V2:3, V3:2, V3:1, H2:3, Full
  - Dyn Ra.: 30~180, 5/step
  - Gray Map: 1~10, 1/step
  - Speed: 1~6, 6 steps adjustable
  - Chrome: 0~8, 1/step
  - Save (Freeze)
  - Reset (Freeze)
  - Jump to First (Freeze)
  - Jump to Last (Freeze)
  - Replay Speed (Freeze)
  - Start Time (Freeze)
  - End Time (Freeze)
- C mode
  - ROI Position: trackball
  - ROI Size: trackball & set key
  - ROI Steer: Linear transducer
    →Left 4 steps adjustable
    →Right 4 steps adjustable
  - Dual Live: B/C, B/PDI, B/DPDI

BAWER
MEDICAL EQUIPMENT

HUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- Quad: Color 4B
- Image Quality: Pen, Gen, Res
- Wall Filter: 0~7, 1/step
- Sensitivity: 1~4, 1/step
- Persistence: 0~5, 1/step
- Smooth: 0~5, 1/step
- Line Density: L, H
- Flow State: L M H
- HR Flow
- Priority: 0~100, 1/step
- Invert
- Velocity Tag: On, Off
- B/C Align
- Color hide: On, Off
- Color Map: V0~VV9, 20 steps
- PRF: 0.2~7.9KHz

● PW mode

- Image Quality: Pen, Gen, Res
- Wall Filter: 0~7, 1/step
- Invert: On, Off
- Quick Angle: 0°, +60°, -60°
- Speed:1~6, 1/step
- Auto Calc Cycle: 1, 2, 3
- Auto Invert: On, Off
- Trace Area: Above, Below, All
- SV: 0.5~40mm, 0.5mm/step
- HPRF: ON/OFF
- Volume: 0-100, 1/step
- Dyn Ra.: 24~72, 2/step
- Multi sync: ON/OFF
- Auto Calc Para

→AT, D/S, DT, ED, Flow (TAMAX), VTI, Flow (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

→User-defined selection

- Chrome: 0~8, 1/step
- Gray Map: 1~10, 1/step
- T/F Resolution: 1~5, 1/step
- Display Format:

→V2:3, V3:2, V3:1, H2:3, Full

- PRF: 0.5KHz~12.0KHz
- Auto calc cycle: 1, 2, 3 Adjustable
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)
- Select Start (Freeze)
- Select End (Freeze)

● CW Mode

- Image Quality: Gen
- Dyn Ra.: 24-72, 2/step
- PRF: 0.5KHz~120.0KHz
- Speed: 1-6
- Angle: -80°~80°, 1° /step
- Gray Map: 1-10
- Wall Filter: 0-7, 1/step
- Chroma: 0-8
- T/F Resolution: 1-5, 1/step
- Invert: On/Off
- Volume: 0-100, 1/step
- Display Format: Full, V2:3, V3:2, V3:1, H2:3
- baseline:17 step
- Auto Spectrum
- Auto Calc: On/Off
- Auto Calc Para:

→Automatic spectrum calculation results

BAWERS MEDICAL EQUIPMENT

AT, D/S, DT, ED, Flow (MAX), VTI, Flow (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

→User-defined selection

- Static 3D&4D
  - Prepare parameters
    - →Autoface: On, Off
    - →Trim Used
    - →Angle: 10°~70°， 5°/step
    - →Quality: Lowest, Low, Medium High, Highest
    - →Angle: 10°~70°， 5°/step
    - →Render mode: Surface，Depth，Max，Min，Xray，ZLive, Silhouette
  - Update parameters
    - →Display Format: Single, Dual, Quad, LeftQuad
    - →Render mode: Surface，Depth，Max，Min，Xray，ZLive, Silhouette
    - →Orientation: 0°, 90°, 180°, 270°
    - →RotateX: Adjustable
    - →RotateY: Adjustable
    - →RotateZ: Adjustable
    - →Threshold: 1-100, 1/step
    - →Opacity: 0~100, 5/step
    - →Contrast:0~100, 1/step
    - →Brightness: 0~100, 1/step
    - →Smooth: 0~12, 1/step
    - →RefSection: A, B, C
    - →VR Status: VR, MPR, MPR
    - →Reset Ori
    - →Reset All
    - →Sync
    - →Chrome:0~8, 1/step
    - →Image Enh. : 0~10
    - →Movelight
    - →Reset Trim
    - →Invert
    - →View Direction: UP/Down, Down/UP, Left/Right, Right/Left, Front/Back, Back/Front
    - →Reverse View
    - →Gray Map
  - Image Edit parameters
    - →Edit Mode: Box in, Box Out, Contour In, Contour Out, Polygon In, Polygon Out
    - →Undo
    - →Undo All
    - →Trim Depth: 0-100
  - Zpage
    - →Display Format: 2×2, 3×3, 4×4, 5×5
    - →Distance: 0.1-20, 0.1/step
    - →RefSection: A, B, C
    - →RotateX: Adjustable
    - →RotateY: Adjustable
    - →RotateZ: Adjustable
    - →Slices Full
    - →Slice Pos: -7~8, 1/step
    - →Orentation: Horizontal, Verrical
  - Layout parameters
    - →Display Format: Single, Quad
    - →3D_Niche Directior: Front Back, Back Front
    - →RefSection: A/B/C/Niche
    - →Reset Ori

BAWERS MEDICAL EQUIPMENT

- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)
- Start Frame (Freeze)
- End Frame (Freeze)

● Elastic

- Opacity: 0~10, 1/step
- Invert
- Sync
- Persistence
- Smooth: 0~10, 1/step
- Map: 1~7, 1/step
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)

● Anatomic M

- Show A
- Show B
- Show C
- Speed :1~6, 1/step
- Gray Map: 1-10, 1/step
- Chrome: 0~8, 1/step
- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)

5 Measurement

5.1 2D mode

● General

- Distance (2D)
- Trace
- Ellipse
- Angle
- Volume
- Ratio (D)
- Ratio (Trace)
- Ratio (Ellipse)
- Spline
- Cross
- Double Dist
- Trace Len
- Trace Len (Spline)
- Parallel
- B-Profile
- B-Hist (Ellipse)
- B-Hist (Trace)
- B-Hist (Spline)
- B-Hist (Rectangle)
- Depth
- Color Vel
- Volume (Ellipse)
- Volume (E+Dist)
- Ratio (Spline)
- Ratio (Cross)
- Strain Ratio
- IMT(Near)
- IMT(Far)
- Vol Flow

→Vas Area, TAMEAN, TAMAX

● Abdomen

- Liver
- Renal L

BAWERS
MEDICAL EQUIPMENT

- Renal H
- Renal W
- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- CBD
- Portal V Diam
- CHD
- GB L
- GB H
- GB wall th
- Panc duct
- Panc head
- Panc body
- Panc tail
- Spleen
- Aorta Diam
- Aorta Bif
- Iliac Diam
- Bladder
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Ureter
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol

- **Gynecology**
  - UT L
  - UT H
  - UT W
  - Cervix L
  - Cervix H
  - Cervix W
  - Endo
  - Ovary L
  - Ovary H
  - Ovary W
  - Follicle1 L
  - Follicle1 H
  - Follicle1 W
  - Follicle2 L
  - Follicle2 H
  - Follicle2 W
  - Follicle3 L
  - Follicle3 H
  - Follicle3 W
  - Follicle4 L
  - Follicle4 H
  - Follicle4 W
  - Follicle5 L
  - Follicle5 H
  - Follicle5 W
  - Follicle6 L
  - Follicle6 H
  - Follicle6 W
  - Follicle7 L
  - Follicle7 H
  - Follicle7 W
  - Follicle8 L
  - Follicle8 H
  - Follicle8 W
  - Follicle9 L

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MEDICAL EQUIPMENT

HUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- Follicle9 H
- Follicle9 W
- Follicle10 L
- Follicle10 H
- Follicle10 W
- Follicle11 L
- Follicle11 H
- Follicle11 W
- Follicle12 L
- Follicle12 H
- Follicle12 W
- Follicle13 L
- Follicle13 H
- Follicle13W
- Follicle14 L
- Follicle14 H
- Follicle14 W
- Follicle15 L
- Follicle15 H
- Follicle15 W
- Follicle16 L
- Follicle16 H
- Follicle16 W
- Ovary Vol
- UT Vol
- Uterus Body
- UT-L/CX-L
- BND
- DWT
- DWT1
- DWT2
- DWT3
- Mean DWT
- Residual Urine: BL Height, BL Depth
- BSD (R)
- UTA (R)
- RVA(R)
- BPW-SP Dist.(R)
- Cx-SP Dist. (R)
- RA-SP Dist. (R)
- Shuttle (R)
- ARA (R)
- LH AP Diam (R)
- LH Lateral Diam (R)
- LH Area (R)
- LA Angle (R)
- LUG (R)
- BSD (Va)
- UTA (Va)
- RVA (Va)
- BPW-SP Dist. (Va)
- Cx-SP Dist. (Va)
- RA-SP Dist. (Va)
- Shuttle (Va)
- ARA (Va)
- LH AP Diam (Va)
- LH Lateral Diam (Va）
- LH Area (Va)
- LA Thickness (Va)
- LA Angle (Va)
- LA Thickness (Va)
- LA Angle (C)
- LUG (C)
- IAS Damage
- EAS Damage

● Cardiology

- Ao Diam (2D)
- Ao Arch Diam (2D)

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MEDICAL EQUIPMENT

HUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- Ao Asc Diam (2D)
- Ao Desc Diam (2D)
- Ao Isthmus (2D)
- Ao st junct (2D)
- Ao Sinus Diam (2D)
- AVA
- ASD Diam
- ACS (2D)
- AV Diam
- Duct Art Diam
- HR (Cube 2D)
- HR (Gibson 2D)
- HR (Teich 2D)
- IVC Diam (Expir)
- IVC Diam (Insp)
- IVSd (2D)
- IVSs (2D)
- LA Area
- LA Diam (2D)
- LA Major
- LA Minor
- LCA Diam
- LPA Diam (2D)
- LV Area (d)
- LV Area (s)
- Diastole (Cube2D)
- Diastole (Gibson2D)
- Diastole (Teich2D)
- LV Major
- LV Minor
- Systole (Cube 2D)
- Systole (Gibson2D)
- Systole (Teich2D)
- LVIDd (2d)
- LVIDd (Cube 2D)
- LVIDd (Gibson2D)
- LVIDd (Teich2D)
- LVIDs (2d)
- LVIDs (Cube 2D)
- LVIDs (Gibson2D)
- LVIDs (Teich2D)
- LVOT Diam
- RVOT Diam
- LVPWd (2D)
- LVPWs (2D)
- MCS (2D)
- MPA Diam (2D)
- MVA
- MV Diam
- MV EPSS (2D)
- PDA Diam
- PEd (2D)
- PEs (2D)
- PFO Diam
- Pre Ductal
- Post Ductal
- PV Diam
- RA Area
- RA Major
- RA Minor
- RCA Diam
- RPA Diam (2D)
- RV Area (d)
- RV Area (s)
- RV Major
- RV Minor
- RVAWd (2D)
- RVAWs (2D)

BAWERS
MEDICAL EQUIPMENT

HUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- RVDd (2D)
- RVDs (2D)
- SVC Diam (Expir)
- SVC Diam (Insp)
- TV Diam
- TVA
- VSD Diam
- LVIDd (BP Ellipse)
- LVIDs (BP Ellipse)
- LVAd sax MV (BP Ellipse)
- LVAs sax MV (BP Ellipse)
- LVAd apical (BP Ellipse)
- LVAs apical (BP Ellipse)
- HR (BP Ellipse)
- LVAd sax MV (Bullet)
- LVAs sax MV (Bullet)
- LVLd apical (Bullet)
- LVLs apical (Bullet)
- HR (Bullet)
- LA Diam (LA Vol A-L)
- LAA (A2C)
- LAA (A4C)
- LA Vol (A2C)
- LA Vol (A4C)
- LVAd sax Epi (LV Mass A-L)
- LVAd sax Endo (LV Mass A-L)
- LVLd apical (LV Mass A-L)
- IVSd (LV Mass Cube-2D)
- LVIDd (LV Mass Cube-2D)
- LVPWd (LV Mass Cube-2D)
- LVAd sax Epi (LV Mass T-E)
- LVAd sax Endo (LV Mass T-E)
- a
- d
- RA Vol (A4C)
- LVLd apical (SP Ellipse)
- LVAd apical (SP Ellipse)
- LVLs apical (SP Ellipse)
- LVAs apical (SP Ellipse)
- HR (SP Ellipse)
- LVLd apical (Simp)
- LVLd apical (Simp)
- LVLs apical (Simp)
- LVAd sax MV (Simp)
- LVAs sax MV (Simp)
- LVAd sax PM (Simp)
- LVAs sax PM (Simp)
- HR (Mod Simp)
- EDV (Simp BP-A2C)
- ESV (Simp BP-A2C)
- EDV (Simp BP-A4C)
- ESV (Simp BP-A4C)
- HR (Simp BP)
- EDV (Simp SP-A2C)
- ESV (Simp SP-A2C)
- HR (Simp SP A2C)
- EDV (Simp SP-A4C)
- ESV (Simp SP-A4C)
- HR (Simp SP A4C)
- LA/AO (2D)
- AO/LA (2D)

● Vascular

- Stenosis D
- Stenosis A

● Urology

- Renal L
- Renal H
- Renal W

BAWERS
MEDICAL EQUIPMENT

HUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- Prostate L
- Prostate H
- Prostate W
- Seminal L
- Seminal H
- Seminal W
- Testicular L
- Testicular H
- Testicular W
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Prostate Mass1 d1
- Prostate Mass1 d2
- Prostate Mass1 d3
- Prostate Mass2 d1
- Prostate Mass2 d2
- Prostate Mass2 d3
- Prostate Mass3 d1
- Prostate Mass3 d2
- Prostate Mass3 d3
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W
- Scrotal Wall
- Renal Vol
- Prostate Vol
- Testis Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol

● SmallParts

- Thyroid L
- Thyroid H
- Thyroid W
- Isthmus H
- Testicular L
- Testicular H
- Testicular W
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W

BAWERS
MEDICAL EQUIPMENT

HUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- Scrotal Wall
- Breast Mass1 L
- Breast Mass1 H
- Breast Mass1 W
- Nip. -Mass1 Dist.
- Skin-Mass1 Dist.
- Breast Mass2 L
- Breast Mass2 H
- Breast Mass2 W
- Nip. -Mass2 Dist.
- Skin-Mass2 Dist.
- Breast Mass3 L
- Breast Mass3 H
- Breast Mass3 W
- Nip. -Mass3 Dist.
- Skin-Mass3 Dist.
- Breast Mass4 L
- Breast Mass4 H
- Breast Mass4 W
- Nip.-Mass4 Dist.
- Skin-Mass4 Dist.
- Breast Mass5 L
- Breast Mass5 H
- Breast Mass5 W
- Nip. -Mass5 Dist.
- Skin-Mass5 Dist.
- Breast Mass6 L
- Breast Mass6 H
- Breast Mass6 W
- Nip. -Mass6 Dist.
- Skin-Mass6 Dist.
- Breast Mass7 L
- Breast Mass7 H
- Breast Mass7 W
- Nip. -Mass7 Dist.
- Skin-Mass7 Dist.
- Breast Mass8 L
- Breast Mass8 H
- Breast Mass8 W
- Nip. -Mass8 Dist.
- Skin-Mass8 Dist.
- Breast Mass9 L
- Breast Mass9 H
- Breast Mass9 W
- Nip. -Mass9 Dist.
- Skin-Mass9 Dist.
- Breast Mass10 L
- Breast Mass10 H
- Breast Mass10 W
- Nip. -Mass10 Dist.
- Skin-Mass10 Dist.
- Thyroid Mass1 d1
- Thyroid Mass1 d2
- Thyroid Mass1 d3
- Thyroid Mass2 d1
- Thyroid Mass2 d2
- Thyroid Mass2 d3
- Thyroid Mass3 d1
- Thyroid Mass3 d2
- Thyroid Mass3 d3
- Thyroid Vol
- B- distance
- Pleural T

● Orthopedics

- HIP
- HIP (α)
- HIP (β)
- HIP-Graf

BAWERS
MEDICAL EQUIPMENT

HUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- d/D

- **Obstetrics**
  - GS
  - YS
  - CRL
  - NT
  - BPD
  - OFD
  - HC
  - AC
  - FL
  - TAD
  - APAD
  - TCD
  - CM
  - LVW
  - HW
  - OOD
  - IOD
  - HUM
  - Ulna
  - RAD
  - Tibia
  - FIB
  - CLAV
  - Vertebrae
  - MP
  - Foot
  - Ear
  - APTD
  - TTD
  - FTA
  - THD
  - Hrtc
  - TC
  - Umb VD
  - F-kidney
  - Mat kidney
  - Cervix L
  - AF
  - NF
  - Orbit
  - PL Thickness
  - Sac Diam1
  - Sac Diam2
  - Sac Diam3
  - AF1
  - AF2
  - AF3
  - AF4
  - LVIDd
  - LVIDs
  - LA Diam
  - LV Diam
  - RVIDd
  - RVIDs
  - RA Diam
  - RV Diam
  - IVSd
  - IVSs
  - IVS
  - LA Area
  - LV Area
  - RV Area
  - RA Area
  - Ao Diam
  - MPA Diam
  - LVOT Diam

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HUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- LVOT Diam
- Facial Angle
- HrtA
- MV Diam
- PV Diam
- Ao Asc Diam
- Ao Desc Diam
- Duct Art. Diam
- TV Diam
- LPA Diam
- RPA Diam
- IVC Diam
- AV Diam
- UT L
- UT H
- UT W
- Endo
- Mean Sac Diam
- AFI
- EFW
- EFW2
- HC/AC
- FL/AC
- FL/BPD
- AXT
- CI
- FL/HC
- HC (C)
- Hrtc/TC
- TCD/AC
- LVW/HW
- LVD/RVD
- LAD/RAD
- AoD/MPAD
- LAD/AoD

● Emergency

- Renal L
- Renal H
- Renal W
- CBD
- Portal V Diam
- CHD
- GB wall th
- Aorta Diam
- Aorta Bif
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- GS
- YS
- CRL
- UT L
- UT H
- UT W
- Endo
- Ovary L
- Ovary H
- Ovary W
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol
- Ovary Vol
- UT Vol

BAWERS
MEDICAL EQUIPMENT

- UT SUM

5.2 M mode

- General
  - Distance (M)
  - HR (M)
  - Slope
  - Time (M)
  - Velocity
- Cardiology
  - Ao Arch Diam (M)
  - Ao Asc Diam (M)
  - Ao Desc Diam (M)
  - Ao Diam (M)
  - Ao Isthmus (M)
  - Ao Sinus Diam (M)
  - Ao st junct (M)
  - ACS (M)
  - HR (Cube M)
  - HR (Gibson M)
  - HR (Teich M)
  - IVSd (M)
  - IVSs (M)
  - LA Diam (M)
  - LPA Diam (M)
  - Diastole (Cube M)
  - Diastole (Gibson M)
  - Diastole (Teich M)
  - Systole (Cube M)
  - Systole (Gibson M)
  - Systole (Teich M)
  - LVET (M)
  - LVIDd (Cube M)
  - LVIDd (Gibson M)
  - LVIDd (Teich M)
  - LVIDd (M)
  - LVIDs (M)
  - LVIDs (Cube M)
  - LVIDs (Gibson M)
  - LVIDs (Teich M)
  - LVPEP (M)
  - LVPWd (M)
  - LVPWs (M)
  - MCS (M)
  - MPA Diam (M)
  - MV A Amp
  - MV E Amp
  - MV D-E Slope
  - MV DE
  - MV E-F Slope
  - MV EPSS (M)
  - PEd (M)
  - PEs (M)
  - RPA Diam (M)
  - RVAWd (M)
  - RVAWs (M)
  - RVDd (M)
  - RVDs (M)
  - RVET (M)
  - RVPEP (M)
  - TAPSE
  - IVSd (LV Mass Cube-M)
  - LVIDd (LV Mass Cube-M)
  - LVPWd (LV Mass Cube-M)
  - MV C-O dur
  - LVET (LV Tei Index-M)
  - LA/AO (M)
  - AO/LA (M)
- Obstetrics

BAWERS
MEDICAL EQUIPMENT

- FHR
- LVIDd (M)
- LVIDs (M)
- RVIDd (M)
- RVIDs (M)
- IVSd (M)
- IVSs (M)

● Emergency

- FHR

5.3 Doppler

● General

- PS/ED
- Vel
- HR (Doppler)
- Time (Doppler)
- Acceleration
- D Trace
- Ratio (Vel)
- Ratio (VTI)
- Vol Flow
  - →Vas Area
  - →TAMEAN
  - →TAMAX

● Abdomen

- Ren A Org
- Arcuate A
- Segment A
- Interlobar A
- Renal A
- M Renal A
- Renal V
- Aorta
- Celiac Axis
- SMA
- C Hepatic A
- Splenic A
- IVC
- Portal V
- M Portal V
- Hepatic V
- Lt Hepatic V
- Rt Hepatic V
- M Hepatic V
- Splenic V
- SMV
- RAR
- SMA/AO
- CA/AO

● Cardiology

- MV Aa (lateral)
- MV Aa (medial)
- AAo Vmax
- AV VTI
- AV Vmax
- AR DecT
- AR PHT
- AR Ved
- AR Vmax
- AR VTI
- MV ARa (lateral)
- MV ARa (medial)
- ASD Vmax
- AV AccT
- AV DccT
- Coarc Pre-Duct
- Coarc post-Duct
- DAo Vmax

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MEDICAL EQUIPMENT

HUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- MV DRa (lateral)
- MV DRa (medial)
- MV Ea (lateral)
- MV Ea (medial)
- HR (Doppler)
- IVC Vel (Expir)
- IVC Vel (Insp)
- IVCT
- LPA Vmax
- LVET (Doppler)
- LVOT AccT
- LVOT VTI
- LVOT Vmax
- LVPEP (D)
- MPA Vmax
- dp/dt
- MR VTI
- MR Vmax
- MS Vmax
- MV A Dur
- MV A Vel
- MV VTI
- MV AccT
- MV DecT
- MV E Dur
- MV E Vel
- MV E VTI
- IVRT
- MV VTI
- MV Vmax
- PVein A Dur
- PVein A Vel
- PVein D Vel
- PVein D VTI
- PVein DecT
- PVein S Vel
- PVein S VTI
- PDA Vel (d)
- PDA Vel (s)
- PR PHT
- PR VTI
- PR Ved
- PR Vmax
- PV AccT
- PV VTI
- PV Vmax
- RAP
- RAP Vmax
- RVET (Doppler)
- RVOT Vmax
- RVOT VTI
- RVPEP (Doppler)
- MV Sa (lateral)
- MV Sa (medial)
- SVC Vel (Expir)
- SVC Vel (Insp)
- TR VTI
- TR Vmax
- TV A Dur
- TVA Dur
- TV A Vel
- TV AccT
- TV DecT
- TV E Vel
- TV VTI
- TV Vmax
- VSD Vmax
- Hepatic V S Vel

BAWERS
MEDICAL EQUIPMENT

- Hepatic V D Vel
- MV HR
- TV HR
- AV HR
- PV HR
- MV C-O dur (D)
- LVET (LV Tei Index-Doppler)
- AR Rad
- AR Als Vel
- MR Rad
- MR Als Vel
- PR Rad
- PR Als Vel
- TR Rad
- TR Als Vel
- TV C-O dur
- RVET (RV Tei Index)
- MV E/A
- MVA (PHT)
- TV E/A
- TVA (PHT)

● Vascular

- CCA
- Bulb
- ICA
- ECA
- Vert A
- InnomA
- SubclavA
- Axill A
- Brachial A
- Ulnar A
- Radial A
- Subclav V
- Axill V
- Cephalic V
- Basilic V
- Ulnar V
- Radial V
- C. IliacA
- Ex.lliac A
- CFA
- SFA
- PopA
- TP Trunk A
- Peroneal A
- P. TibA
- A. TibA
- Dors.Ped A
- C. Iliac V
- Ex. Iliac V
- Femoral V
- SaphV
- PopV
- TP Trunk V
- Sural V
- Soleal V
- Peronea V
- P. TibV
- A. TibV
- ACA
- MCA
- PCA
- AComA
- PComA
- BA
- IIA
- DFA

BAWERS
MEDICAL EQUIPMENT

- Ba V
- Brachial V
- IIV
- CFV
- SFV
- DFV
- SSV
- ASP
- BSP
- ICA/CCA (PS)

● Urology

- Testis A
- Testis V
- Epididymis A
- Epididymis A

● SmallParts

- STA
- ITA

● Obstetrics

- Umb A
- Duct Veno
- Placenta A
- MCA
- Fetal Ao
- Desc Aorta
- Ut A
- Ovarian A
- FHR (Doppler)
- Asc Aorta
- RVOT
- LVOT

● Emergency

- FHR

6 System setup

6.1 System Preset

● Region

- Hospital Info: Name, Address, Telephone, Fax, Hospital icon
- Language & Time:

→ Languages: English, Chinese, French, Russian, Spanish

→Time Zone

→Date & Time

→DateFormat: yyyy-MM-dd, MM-dd-yyyy dd-MM-yyyy

→Time Format: 24Hours, 12Hours

● General

- Patient information

→Patient Information: Name, DOB, Gender, Age, Hospital, ID, Operator

→Height and Weight unit: Metric, British

→Body surface area formula(BSA): Eastern, Western

- Exam Settings

→Status after exam ends: Scan, New Patient, Worklist

→Send after exam

- Sleep Mode

→ScreenSaver: Waiting 1,10,30,60 min

→Standby: Waiting 1,10,30,60 min

● Image

- Image Storage

→Cine lengths (s):Adjustable

BAWERS MEDICAL EQUIPMENT

HUC-500

Portable Color Doppler Ultrasonic Diagnostic System

CardiacCycle: 1~16

→Image Size: Image Area, Standard Area

→Video Output: PAL, NTSC

- Image Setting

→Transducer: 3C5PD, 3C5PB, 3C5PDS, 7L4PD, 7L4PB, 7L4PDS, 2P2MA, 3P2PA, 6E1PD, 6E1PDS, 6E1PB, 6C1PD, 4V4CDS

→Display Format: V2:3, V3:2, V3:1, H2:3, Full

→TI Style: TIB, TIC, TIS

→Freeze: Replay, Measure, Caliper

→Steer: C&PW, C/PW, Auto Invert

→Auto Invert

→Horizontal Ruler

→Panoramic Ruler

- Apply

- Measuring Cursor

→ Type: Number, Symbol

→Size: Large, Medium, Small

→Color (Active): Green, Yellow, Red, White

→Color (Inactive):Green, Yellow, Red, White

→Result Size: Large, Medium, Small

→Cardiac cycle: 1~8

→Delete the measurement results when deleting calipers

- Comment

→Font Size: Large, Medium, Small

→Arrow Size: Large, Medium, Small

→Automatically clear comments when unfreeze the image or switch the probe or exam mode

→Automatically clear the body mark when unfreeze the image

- Follicle

→Calculation method: Signal, Double, Three

- OB

- Fetal GA

  - Mean Sac Diam →Daya, Hellman
  - OOD→ Jeanty
  - TCD→Hill, Nicolaides
  - CLAV→Yarkoni
  - Tibia→ Jeanty
  - Ulna→ Jeanty
  - HUM→ Jeanty, ASUM
  - THD→Hansmann
  - FTA→Osaka
  - TAD→CFEF
  - OFD→Hansmann, Nicolaides, ASUM
  - FL→Hadlock, Tokyo, Merz, Hansmann, Warda, Chitty, Osaka, Nicolaides, ASUM, Jeanty, Hohler, China
  - AC→Hadlock, Jeanty, Merz, Chitty, ASUM, CFEF, Hansman
  - HC→Hadlock, Jeanty, Hansmann, ChittyPL, Chitty_Derived, Nicolaides, ASUM, CFEF
  - BPD→Hadlock, Tokyo, Jeanty, Kurtz, Hansmann, Merz, Rempen, ChittyOI, Osaka, China, Nicolaides, ASUM
  - CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM, Jeanty, Nelson, China, RobinsonBMUS
  - GS→Rempen, Tokyo, Hansmann, China
  - EFW2→Hadlock, Tokyo
  - EFW→Hadlock, Tokyo
  - Result Windows:

→Display EDD

BAWERS MEDICAL EQUIPMENT

→Display GA in the report

- Fetal Weight
  - FetalWeight
    - →Hadlock (AC,FL)
    - →Hadlock (AC,FL,BPD)
    - →Hadlock (AC,FL,HC)
    - →Hadlock (AC,FL,HC,BPD)
    - →Shepard
    - →Merz1
    - →Merz2
    - →Hansmann (BPD,THD)
    - →Tokyo
    - →Osaka (FL,BPD,FTA)
    - →Campbell
  - FetalWeight2
    - →Hadlock (AC,FL)
    - →Hadlock (AC,FL,BPD)
    - →Hadlock (AC,FL,HC)
    - →Hadlock (AC,FL,HC,BPD)
    - →Shepard
    - →Merz1
    - →Merz2
    - →Hansmann (BPD,THD)
    - →Tokyo
    - →Osaka (FL,BPD,FTA)
    - →Campbell
  - WeightUnit: METRIC, IMPERIAL, METRIC & IMPERIAL
- Fetal Weight Percentile
  - Formula: NULL, Hadlock, Brenner, William
  - Type: AUA/CUA, LMP&AUA/CUA, LMP
- Fetal Growth Curve
  - FL/HC→Hadlock
  - HC/AC→Campbell
  - AFI→Moore
  - UmbARI→JSUM
  - UmbAPI
  - MCARI→JSUM
  - MCAPI
  - CM→Nicolaides
  - TCD→Hill, Goldstein, Nicolaides
  - CLAV→Yarkoni
  - FIB→Merz, Jeanty
  - RAD→Merz, Jeanty
  - Tibia→Merz, Jeanty
  - Ulna→Merz, Jeanty
  - HUM→ ASUM, Jeanty, Merz
  - THD→Hansmann
  - FTA→Osaka
  - TAD→Merz, CFEF
  - APAD→Merz
  - OFD→Hansmann, Merz, Nicolaides, ASUM, Jeanty
  - FL→Hadlock, Tokyo, Merz, Hansmann, O_Brien, Warda, Chitty, Jeanty, Osaka, Nicolaides, ASUM, CFEF
  - AC→Hadlock, Jeanty, Merz, Chitty, Nicolaides, ASUM, CFEF, Hansman
  - HC→Hadlock, Merz, Hansmann, Jeanty, CFEF, ChittyPL, Chitty_Derived, Nicolaides, ASUM
  - BPD→Hadlock, Tokyo, Jeanty, Kurtz,

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MEDICAL EQUIPMENT

Sabbagha, Hansmann, Merz, Rempen, ChittyOI, Osaka, Nicolaides, ASUM, CFEF

- CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM
- GS→Rempen, Tokyo, Hansmann, Hellman
- EFW2→Hadlock, Hansmann, Tokyo, Brenner, William
- FEW→Hadlock, Hansmann, Tokyo, Brenner, William
- OB Graph:1*1, 1*2, 2*2,2*1

- Customize

- Button Type: Button, Foot Switch
- Button: Save1, Save2, Q1, Q2, Q3, Q4, Print
- Function Type
  - Output: Save Image, Save Cine
  - Print: Analog Print, Digital Print
  - Image Mode:
    - →Enter TDI Mode
    - →Enter Elasto Mode
    - →Enter Pano Mode
    - →Enter Anatomic M Mode
    - →Enter Dual Live Mode
    - →Enter Quad Mode
  - Other: Q Save, Freeze/Unfreeze, Ultrasound assistant
- Trackball Speed: Slow, Medium, Fast
- Button Brightness:0-9
- Button Volume: On/Off

- Admin

- Enable Admin: On/Off
  - Username, password, Add, Delete, Change Password

6.2 Exam Preset

- Available on All transducers
- Add New Applications
- Delete Applications
- Set up Default Clinical App of boot
- Adjustable position of application

6.3 Measure Preset

- Measure
  - Measurement items can be added and moved
  - 2D, M, Doppler
- Caliper
  - Measurement items can be added and moved
  - 2D, M, Doppler
- Report
  - Preset Report Template Name

6.4 Network Preset

- Local TCP/IP

-Wired Network

- DHCP, Static

IP Address, Subnet Mask, Gateway

- DICOM Local

-Localhost Dicom Service Property

- AE Title, Port, PDU

- Serve Setting
  - Device, IP
- Device list
  - Device, IP
  - Set Dicom Service, Delete
- DICOM Service

- Storage
- Print
- Worklist
- MPPS

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- Storage Commitment
- Query/retrieve

6.5 Print Preset

- Print Service
  - Add
  - Delete
  - Rename
  - Add Printer
  - Default
- Printer Property

  Service Type, Service Name, Printer, Paper Orientation, Paper Size
- Printing Parameter

  Brightness, Contrast, Saturation, Rows, Columns

6.6 About & Maintenance

- System Info
- Detailed Info
- Option
- Other

7 Transducer Parameters

- Convex probe 3C5PD
  - Applications: ABD, OB, GYN, PedABD, Urology
  - Number of Elements:128
  - Harmonics frequency: 1.2-3.0, 2.6-4.5, 4.2-6.5MHz
  - Basic frequency: 3.4, 4.0, 5.0, 6.4MHz
  - Depth range: 40~420mm
- Linear array probe 7L4PD
  - Applications: Carotid, Thyroid, Nerve, Superficial, MSK, PedABD, Orthopedic, Vascular
  - Number of Elements: 128
  - Harmonics frequency: 4.2-6.3, 6.0-9.5, 8.5-15.0MHz
  - Basic frequency: 8.0, 9.4, 10.6, 12.2MHz
  - Depth range: 20-280mm
- Phased array probe 3P2PA
  - Applications: Adult Cardiac, Ped Cardiac, TCI, ABD
  - Number of Elements: 64
  - Harmonics frequency: 1.2-2.6, 2.4-3.8, 3.5-6.5MHz
  - Basic frequency: 3.0, 4.0, 5.0, 6.0MHz
  - Depth range: 30~320mm
- Volume probe 4V4CDS
  - Applications: ABD, OB, GYN
  - Number of Elements: 128
  - Harmonics frequency: 1.6-3.0, 2.8-4.5, 4.2-8.0MHz
  - Basic frequency: 5.0, 6.4, 7.2, 8.0MHz
  - Depth range: 40~420mm
- Trans-vaginal probe 6E1PD
  - Applications: OB/GYN, Prostate
  - Number of Elements: 128
  - Harmonics frequency: 3.2-5.5, 5.2-7.5, 6.8-12.0Hz
  - Basic frequency: 6.4, 7.2, 8.0, 10.0MHz
  - Depth range: 20~280mm
- Micro-convex Probe 6C1PD
  - Applications: Ped ABD, Ped Cardiac, TCI
  - Number of Elements: 128
  - Harmonics frequency: 3.5-6.3, 6.0-7.5, 6.8-12.0MHz

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- Basic frequency: 6.4, 7.2, 8.0, 10.0MHz
- Depth range: 20~280mm

8 System Inputs & Outputs

- HDMI: 1
- PRINT: 1
- USB 2.0: 2
- USB 3.0: 1
- S-Video: 1
- Video: 1
- Network port: 1
- Power in: 1

9 Standard Package

- Main Unit
- Transducers selectable
- Power cord/grounding cable
- Fuse (2)
- User's Manual
- Coupling Gel (0.25L)

10 Optional Accessories

- Transducers
- Pedal Switch
- Thermal Printer
- Laser Printer
- Biopsy

11 Certificates

- Quality Standards
  - ISO9001
  - ISO13485

◆ NOTICE:

Not all features or specifications described in this document may be available in all transducers and all modes.

Zoncare reserves the right to make changes in specifications and features shown herein.

Zoncare Confidential

Version 1.0 Jan. 2022

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BWHUC-500

Portable Color Doppler Ultrasonic System

Slimmer I Clearer I Stronger



Ergonomic Design

Match the ingenious ergonomic design with the compact size, 650 has remarkable adaptability which can fit variable usage scenario.



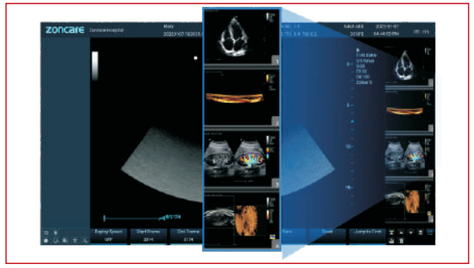


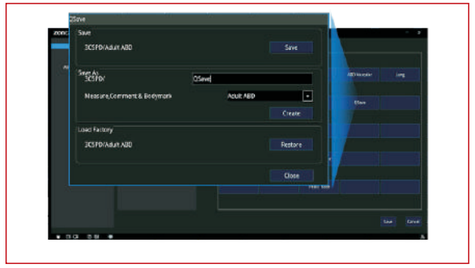
Transducers

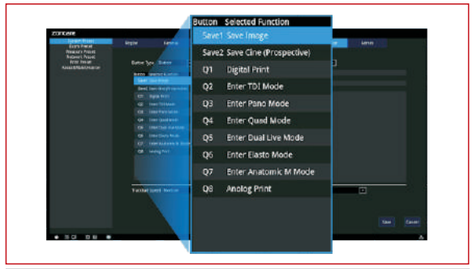


Efficient and Fast Workflow

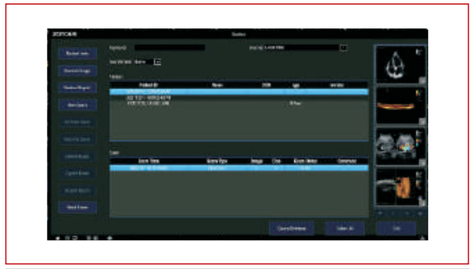
- Multiple user-defined programming buttons
- One-key Automatic Optimization Technology
- One-key operation flow, quick switching and easy to use
- Visualize user-defined presets function (QSave)
- Metadata and image postprocessing
- DICOM 3.0
- USB 3.0 port makes transmission more convenient
- Thumbnail clipboard - easy to review the images and videos


Clipboard


Qsave



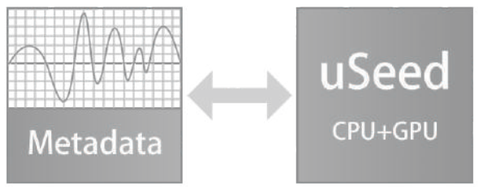
Station


User-defind Buttons



uSeed Platform

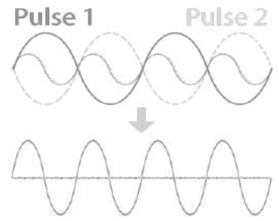
HUC-500 facilitates accurate diagnosis based on uSeed metadata beamforming imaging technology platform. This brand-new platform is developed by CPU + GPU heterogeneous computing technology. The images in uSeed platform are saved as metadata for postprocessing.



Technologies

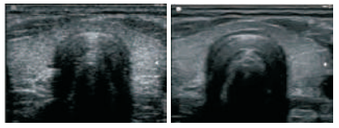
Pulse Inverse Harmonic Imaging PIHI

PIHI reduces the distortion generated by the fundamental wave, and greatly improve the signal-to-noise ratio.



Speckle Reduction Imaging

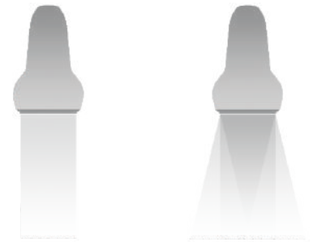
SRI technology significantly reduces the unwanted speckle, provides enhanced tissue boundary and tissue echo for confident clinical diagnosis.



SRI OFF SRI ON

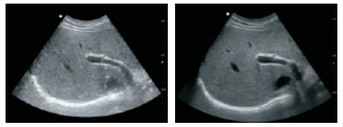
Spatial Compound Imaging

SCI provides better contrast resolution, reduces the speckle noise and smoothes the imaging of homogeneous tissue.



Frequency Composite Imaging

Combine the high penetration of the fundamental frequency and the high resolution of the harmonic frequency to improve the detail resolution and contrast resolution of the near field and the far field to provide the best image quality.



FCI OFF FCI ON

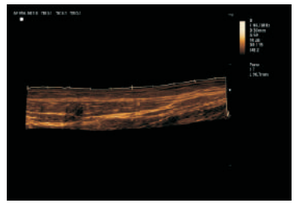


Comprehensive Clinical Applications

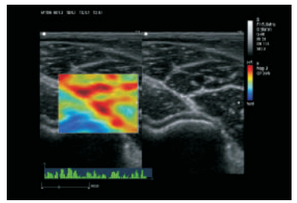
HUC-500 provides remarkable performance in Abdomen, Gynecology (including endocavity), Obstetric, Cardiology, Small parts (Breast, Testes, Thyroid, etc.), Urology, Musculoskeletal and Peripheral vascular. A variety of imaging modes brings a comprehensive clinical application.

- B Steer, 3D/4D, ZPage, Zlive, PW, CW, AMM, CMM, Panoramic Imaging, Elastic imaging mode, EFOV, TDI
- Auto IMT, Auto NT, Auto Trace, TSI, THI, SRI, SCI, FCI, Biopsy function

Radiology

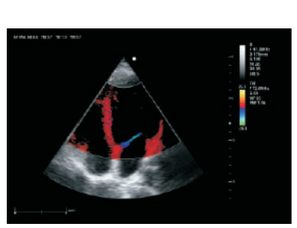


Panoramic Imaging
Panoramic Imaging could help to get extended and complete view of the anatomical structure.

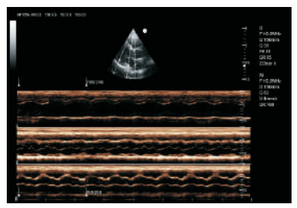


Elastic Imaging
Elastography plays an important role in clinical diagnosis, especially in lesions assessing. Elastography imaging could detect the hardness of nodule, therefore it may help to differentiate malignant from benign lesions.

Cardiology

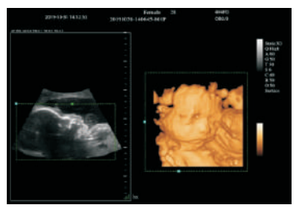


TDI
Tissue Doppler Imaging (TDI) could monitor local myocardial movement, and evaluate the movement quantitatively.



AMM
AMM allows placing up to 3 sample lines at any angles, the thickness and thickening of each ventricular wall could be observed accurately, which is also helpful for the accurate meas urement of ejection fraction.

Obstetrics and Gynecology



3D/4D
advanced 3D/4D mode delivers amazing lifelike 3D/4D images.
With Zlive,
H U C 5 0 0 has the ability to manipulate light and shadow anywhere in the images.

HUC-280

Color Ultrasound Diagnostic System

- *15 inch full view medical HD display;*
- *Support convex/lieaner/transvaginal/micro-convex/4D probe ;*
- *Display model ： B/2B/4B/M/CFM/PDI/PW;*
- *Support color and PWthree synchronization;*
- *High-precision digital continuous beamformer;*
- *Dynamic frequency fusion imaging technology;*
- *High-precision delay point-by-point dynamic receiver focus;*
- *Precise SRI adaptive speckle noise suppression ;*
- *Adaptive image optimization processing technology;*
- *Built-in editable report;*
- *Automatic measurement of IMT;*
- *Built-in lithium battery;*
- *Rich external interfaces;*
- *Optional free arm 3D and 4D imaging ;*
- *Optional special trolly.*









HUC-280

Système d'échographie diagnostique



Fiche de données

Historique des révisions

Version	Révision	Date
1.0.1	Mise à jour pour la version 1.0.1	16/06/2017

Produit Description

Le remarquable système d'échographie compact HUC-220 offre une combinaison performante de fonctionnalités pour répondre aux exigences des applications d'imagerie médicale en clinique.La série HUC-220 a été conçue à partir de Conçu de A à Z dans un souci de rapport qualité-prix élevé et de facilité d'utilisation.La conception à double port de transducteur actif permet de basculer entre les transducteurs d'un simple geste. Le système d'exploitation Windows 7 intégré garantit un fonctionnement fluide et une grande réactivité.

Avancé Technique et Caractéristiques

- Imagerie adaptative des tissus
- Imagerie par composition de fréquence
- Imagerie à optimisation automatique
- Imagerie Doppler adaptative
- Langue：Chinois, anglais, russe, espagnol, portugais, français.
- Imagerie par réduction adaptative du speckle (SRI)
- Imagerie par composition spatiale adaptative
- Formation numérique multi-faisceaux
- Amélioration du spectre
- Trace Doppler automatique

Système Aperçu

Architecture du système

- Ports de transducteurs actifs doubles
- Poutre quadruple de formation de poutre
- Disque dur SSD 256 Go
- Canaux physiques 24
- Processeur Mémoire 2 Go
- Système d'exploitation : Windows 7

Dimensions et poids

- Dimensions : 470 mm × 335 mm × 560 mm
- Poids net (sans batterie) : 6,2 kg

Moniteur

- Moniteur LCD haute résolution de 15 pouces
- Fermeture magnétique
- Taille de l'image : 1024 × 780
- Haut-parleur stéréo intégré

Ports d'E/S

- VGA
- HDMI
- USB 2.0 (deux)
- DICOM

Batterie

- Batterie rechargeable de 4000 mAh
- Indicateur de batterie à droite de la console
- Batterie entièrement chargée en environ 2 heures.
- Icône du niveau de batterie affichée sur l'écran principal.

Exigences en alimentation CA

- Tension 100 -240 V~
- Fréquence 50 Hz/60 Hz

Options

- Transducteurs
- Logiciel 3D
- Imprimantes
- Chariot simple
- Kits de supports de guide-aiguille
- Matériel et logiciel 4D
- Batterie

* Cette fonctionnalité est soumise à l'approbation des autorités réglementaires et peut ne pas être disponible à la vente dans certains pays.

Imagerie

Modes d'imagerie

- Mode B
- mode double B
- Mode 4B
- Mode M
- Doppler couleur
- PDI
- Doppler pouls
- Modes d'affichage
- Disponible en mode B et couleur (PDI).
- Permet de basculer entre deux images
- Affiche deux images côte à côte, deux figées ou une active/une figée.

Combinaisons de modes d'imagerie

- B
- 4B
- B+M
- B/C(PDI), Simple
- B/C(PDI), Double
- B+B/C(PDI), Double live
- B+PW (Duplex)
- B+PW (Mise à jour)
- B/C(PDI)+PW (Triplex)

Utilisateur Interface

- Rétroéclairage interactif
- Clés définies par l'utilisateur
- 6 boutons de menu de raccourci
- curseurs TGC à 8 étapes
- Clavier standard pour la saisie de texte
- Luminosité et contraste réglables

Écran principal

Champ d'information

- Logo de la marque
- Nom de l'hôpital
- Date
- Temps
- Numéro d'identification du patient
- Nom du patient
- Sexe du patient
- Âge du patient
- Modèle de transducteur
- Icône des parties du corps
- application

Champ d'image

- Paramètres d'imagerie
- Barre d'échelle de gris
- Échelle de profondeur
- Fenêtre de résultats mesurés
- Courbe TGC
- Indice mécanique (IM)
- Indice thermique (TI)

Rapport modifiable

- Importation des résultats de mesure et de calcul
- Imprimante réglable
- Résultats des mesures et des calculs pour les grossesses multiples.
- Taille de l'image ajustable

Champ miniature

- Toutes les images fixes et les clips vidéo capturés
- Raccourcis clavier pour sélectionner, afficher, supprimer et exporter des images. **Champ d'état de l'utilisateur**
- Ciné-bar
- Icône de sortie pour quitter le mode d'examen des données brutes.
- État du stockage d'images
- Affichage dynamique de la puissance en temps réel
- Icône de la batterie

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Transducteurs Application et Biopsie Guide

Transducteur		Applications	Transducteur		Applications
R60 Convexe 3,5 millions		Abdomen Fœtalité / Obstétrique Urologie Gynécologie musculo-squelettique	R10 cavité 6,5 millions		Obstétrique Gynécologie Urologie
L40 Linéaire 7,5 millions		Petites pièces Périphérique Vasculaire musculo-squelettique	R20 Micro 3,5 millions		Petites pièces Périphérique Vasculaire musculo-squelettique
R15 Micro 6,5 millions		Abdomen Petites pièces Périphérique Vasculaire musculo-squelettique	4D		abdomen Obstétrique
L64 Rectal 6,0 millions		Transrectal Urologie	R20 Micro 7,5 millions		Abdomen Petites pièces Périphérique Vasculaire musculo-squelettique

Spécifications du transducteur

indices de performance	type de sonde et fréquence nominale			
	2.0⩽f＜4.0	2.0⩽f＜5.0	5,0⩽f＜8.0	5,0⩽f＜12.0
a) Type et modèle de sonde	4D	réseau convexe (type TC60A)	Cavité (type TC10A)	réseau linéaire (type TL40A)
b) fréquence nominale (MHz)	3.5	3.5	6.5	7,5
c) Profondeur de numérisation (mm)	⩾140	⩾160	⩾40	⩾50
d) Résolution latérale (mm)	⩽3(profondeur⩽80) ⩽4(80＜profondeur⩽130)	⩽3(profondeur⩽80) ⩽4(80＜profondeur⩽130)	⩽2(profondeur⩽30)	⩽2(profondeur⩽40)
e) Résolution axiale (mm)	⩽2(profondeur⩽80)	⩽2(profondeur⩽80) ⩽3(80＜profondeur⩽130)	⩽1(profondeur⩽40)	⩽1(profondeur⩽50)
f) Les aveugles sontun(mm)	⩽7	⩽5	⩽4	⩽3
g) Précision de la géométrie transversale (%)	⩽20	⩽15	⩽10	⩽10
h) Précision de la localisation géométrique longitudinale (%)	⩽10	⩽10	⩽5	⩽5
i) Épaisseur de la tranche (mm)	⩽5	⩽5	⩽5	⩽5
j) Écart de mesure du périmètre et de la surface (%)	⩽±20	⩽±20	⩽±20	⩽±20
k) Erreur d'affichage de l'heure en mode M (%)	⩽±10	⩽±10	⩽±10	⩽±10

* Cette fonctionnalité est soumise à l'approbation des autorités réglementaires et peut ne pas être disponible à la vente dans certains pays.

BW-6P Full Digital Ultrasound Diagnostic System

BAWERS
MEDICAL EQUIPMENT



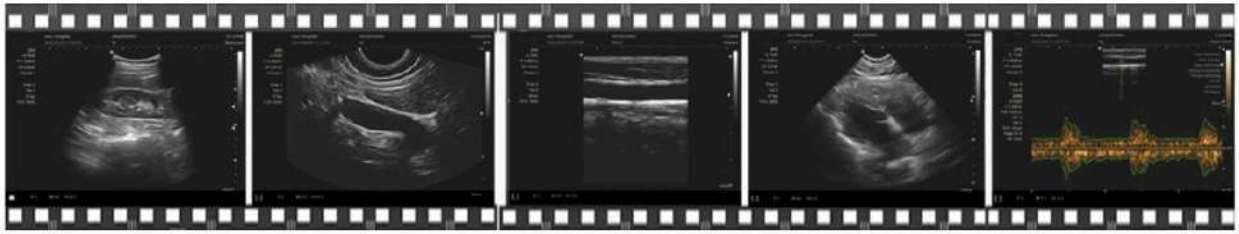


Main Features

- 12 inch LCD Display;
- Windows 7 platform operation system;
- Imaging mode B、B+B、4B、B+M、 PW ;
- Support convex、linear、cavity、micro-convex probe;
- Optional 3D;
- THI imaging technology;
- Support 7 kinds languages(CN\EN\RUS\POR\ESP\FR\DE);
- IMT automatic measure function;
- Editable report page;
- Support HDMI、VGA、DICOM、USB、LINE OUT;
- Equipped solid state drive, make the storage safer and more reliable;
- Environmental protection and low power consumption design;
- 3200mAh chargeable battery with management;



Convex Probe | Cavity Probe | Linear Probe | Micro-Convex



CE ISO13485



High definition medical liquid crystal display

360-degree rotating bracket makes it easier to see pictures

Rich Optional Transducers

- Convex probe
- Trans-vaginal probe
- Linear probe
- Micro-convex probe
- Trans-rectal probe

Four casters with foot brakes

BAWERS
MEDICAL EQUIPMENT

BW-F3

TROLLEY COLOR DOPPLER ULTRASOUND SCANNER

3 equip with echo enhancement technology, high-performance optimization, New intelligent speckle noise suppression imaging technology, and spatial noise reduction technology. To provide more realistic images and improve the penetrating power of difficult patients.

PRODUCT FEATURES

- Fast movie/image playback
- Power Doppler mode
- Pulsed wave doppler mode
- Tissue harmonic imaging
- Color Doppler imaging mode
- Directional power Doppler mode
- Real-time triplex mode

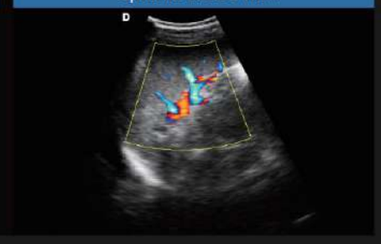
Liver blood flow



Thyroid and carotid



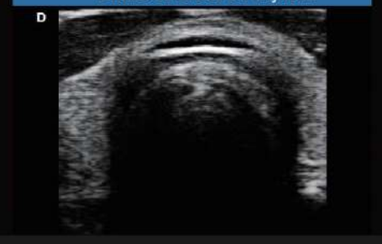
Splenic blood flow



Carotid blood flow



Bilateral lobes of thyroid



Liver



Système de diagnostic médical numérique complet Scanner à ultrasons

BW-10P



Caractéristiques principales:

1. Conversion numérique numérique de haute précision DSC
2. Contrôle de la gain de TGC intelligent de l'ensemble du paragraphe 8
3. Contrôle de la piste de photoélectricité
4. Moniteur haute résolution non entrelacé SVGA de 14 pouces
5. Focus: Concentrez-vous sur le tir à plusieurs étages, l'ensemble de la mise au point dynamique
6. Clavier de silicone rétro-éclairé

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MEDICAL EQUIPMENT

Spécifications techniques:

Mode de numérisation	convexe / linéaire / micro-convexe
Sondes	Sonde convexe, linéaire, transvaginale, rectale
Affichage	Moniteur haute résolution non entrelacé de 14 pouces
Modes d'affichage	B, B + B, 4B, B + M, M
Profondeur de balayage	244mm
Résolution latérale	≤2mm (Profondeur≤80mm) ≤3mm (80
Résolution axiale	≤1mm (profondeur≤80mm) ≤ 2mm (80
Zone aveugle	≤3 mm
Précision de géométrie	Latéral≤5%, axial≤5%
Échelle de gris	256

BAWERS
Tel 00221 763141474 sales@bawers.com www.bawers.com

Focalisation de mise au point électronical Multi-Point ou dynamique

Grossissement	× 0,8, × 1.0, × 1.2, × 1,5, × 1,8, × 2.0 Zoom local
Portée dynamique	0 ~ 100dB, visible et réglable
Pseudo-couleur	16
Noter	Id, sexe, âge, hôpital, médecin, commentaire, date, heure
Marque de corps	16
Interface de sonde	2
Stockage d'images permanentes	128
Guide de ponction	La ligne de guidage de la ponction peut être affichée en mode B
Prendre le contrôle	Le gain total, 8 segment TGC
Conversion d'image	haut / bas, gauche / droite, noir / blanc
Cine boucle	256 cadres
Examen de l'image	Les images peuvent être examinées successivement ou cochées par une
La mesure	distance, périmètre, surface, fréquence cardiaque, semaine gestationnelle (BPD, CRL, GS, FL, AC)
Sortie vidéo	SVGA (moniteur couleur SVGA), PAL-D
Alimentation principale	AC220V ± 22V, 50 / 60Hz

Accessoires

Configuration standard	Clavier de silicone rétro-éclairé
	CRT haute résolution de 14 pouces
	Sonde convexe multisfréquence 3.5MHz (2.5MHz-5.0MHz)
Option	6.5mHz Sonde trans-vaginale
	Sonde linéaire haute fréquence de 7,5 MHz
	Sonde rectale 7,5 MHz
	port USB
	Imprimante
	Configuration à deux écrans



14 inch LED monitor



control panel



rotatable free arm



USB connectors



two probe connectors



probe

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MEDICAL EQUIPMENT



HBW-11

Full Digital Black and White Ultrasound Diagnostic System

Unmatched Perfomance and Precision

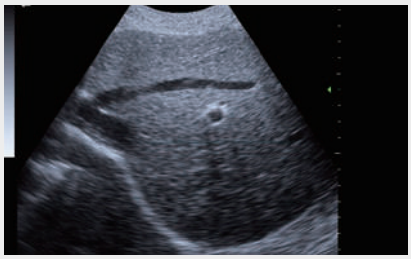
BAWERS
MEDICAL EQUIPMENT

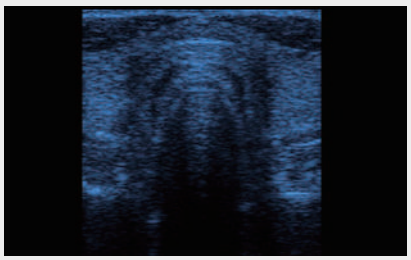
Versatile Applications for Comprehensive Care

extends its capabilities across various medical fields, ensuring accurate diagnostics and improving patient care.

Routine Examinations:

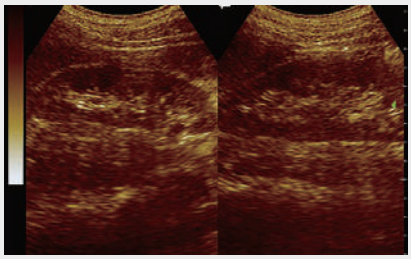
abdomen and small parts

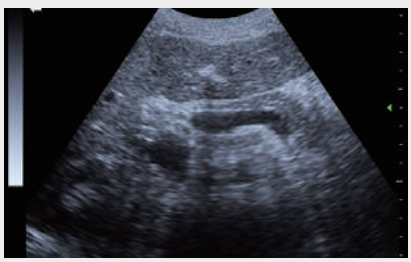




Specialized Fields:

urology, obstetrics, pediatrics







CONVENIENT AND COMPACT DESIGN



15-inch

high-definition LED screen:
180° opening and closing angle range adjustment

Lightweight Body and Simple Design

The DW-350 boasts a lightweight body and a minimalist design for enhanced moblity and user-friendly operation.

Advanced Interfaces and Controls



· 2 probe ports



· A classic operation keyboard



· 1 video interface/ 1 VGA interface/ 2 USB interfaces

IMPROVED PERFORMANCE LEADS TO HIGH-QUALITY IMAGING

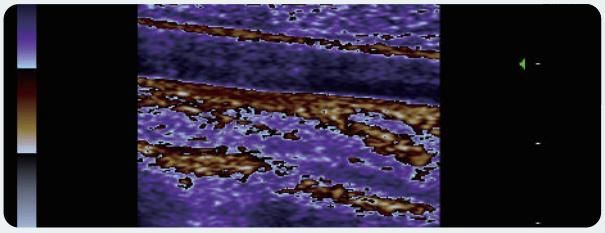


All-round upgraded chip, better performance

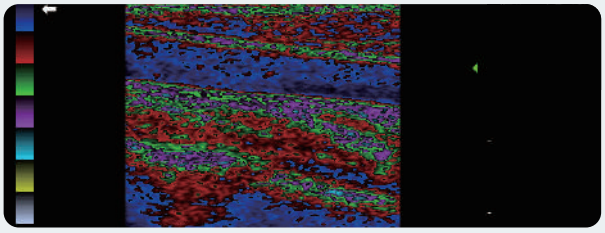
The new ARM architecture, improvement of the speed and capabilities of processing



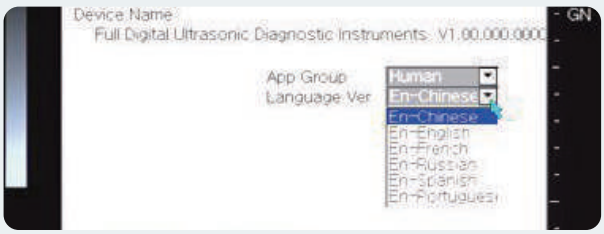
RICH FUNCTIONS BRING SIMPLIFIER OPERATION



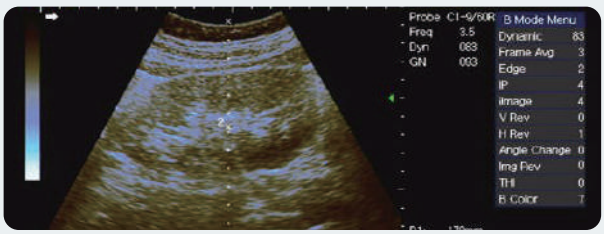
Pseudo color: 3 colors



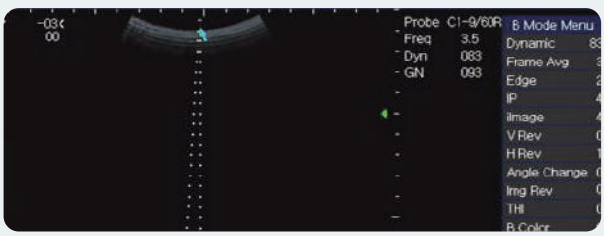
Pseudo color: 7 colors



Multiple system languages:
CH, EN, ES, FR, RU, PT



Gravel positioning function:
displaying the midline, one-click depth measurement

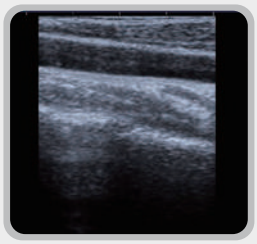


Puncture guidance function

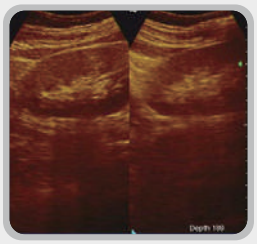


Rich obstetrics measurement package:
supporting pre-setting function.

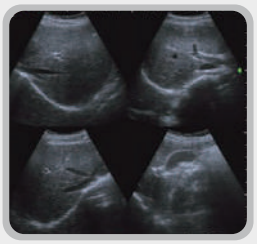
CLINICAL IMAGING



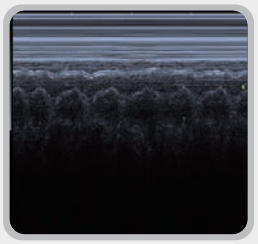
B-Mode



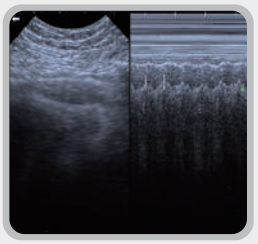
B/B-Mode



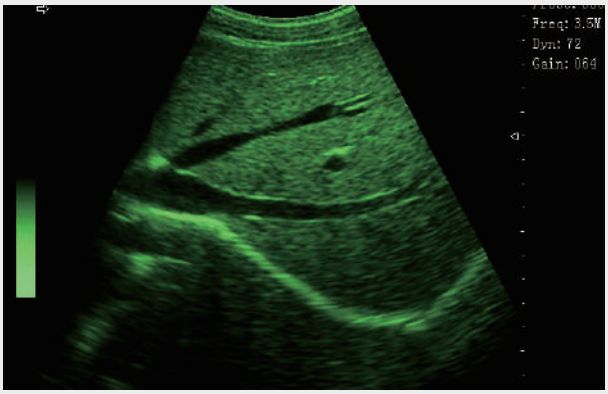
4B-Mode

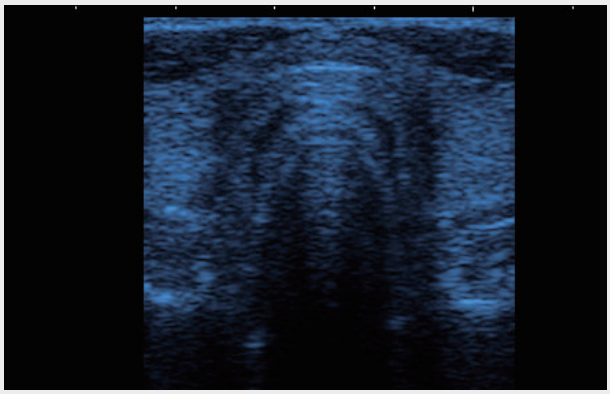


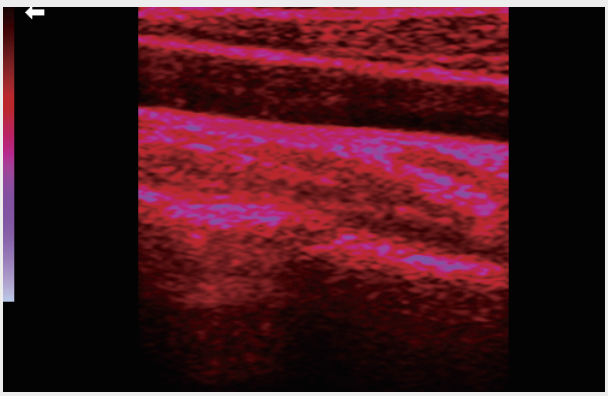
M-Mode

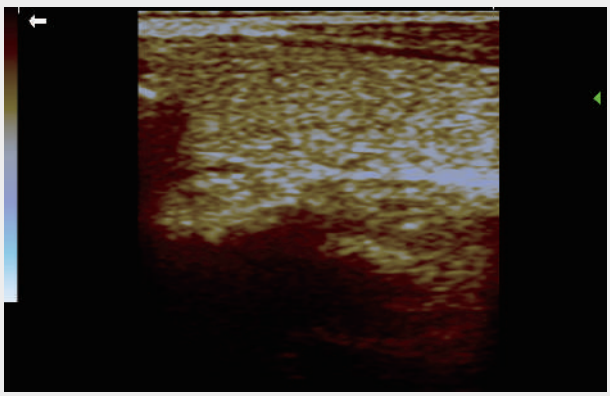


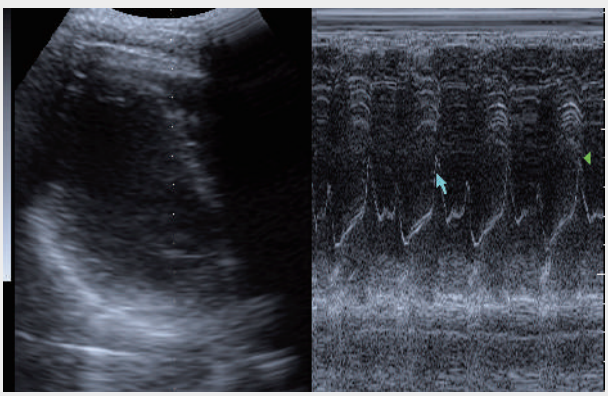
B/M-Mode

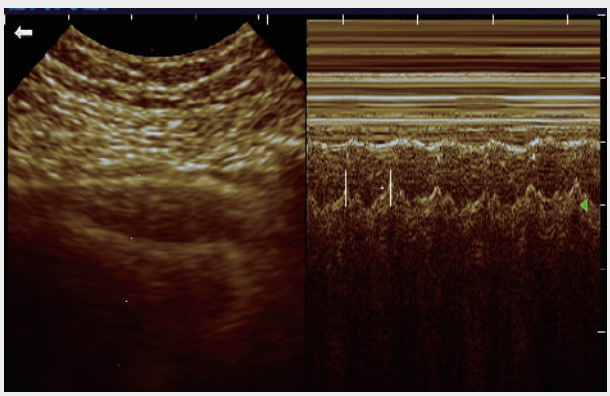












OPTIONAL PROBES



Convex probe

Abdomen, obstetrics, gynecology



Linear probe

Vascular, musculoskeletal



Trans-vaginal probe

Obstetrics, gynecology, urology



















BAWERS
MEDICAL EQUIPMENT

HBW-100

Ultrasound Scanner

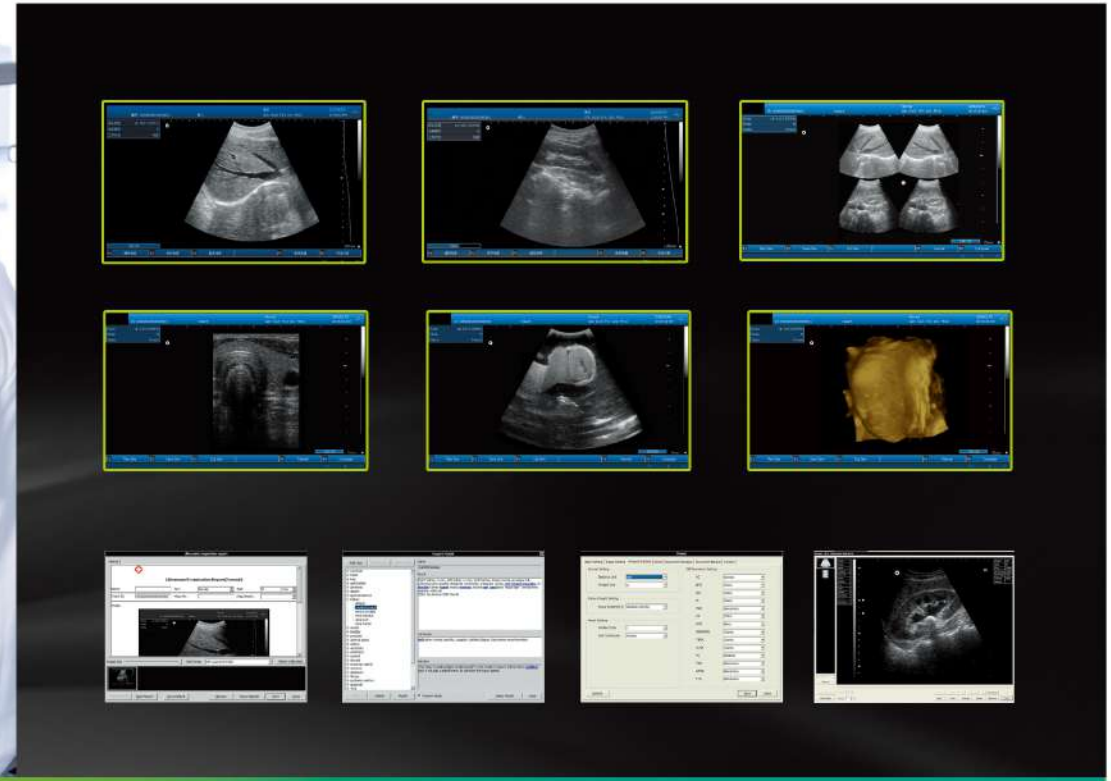
- Full digital imaging technology
- Crystal-clear Image
- Computer platforms, Abundant functions
- Powerful image and report management
- 3D Image Function(optional)
- DICOM display and transfer
- Large Storage volume
- Compatible with USB laser/inkjet printers
- Pretty and new appearance
- 15 inch touch screen color LCD monitor
- Silica gel backlight waterproof keyboard
- Can work with external battery(option)
- 2 probe connector
- Multiple language:

English, French, German, Spanish, Russian, Italian, Portuguese, etc.

Touch screen!











Ultrasound Keyboard

Standard Configuration:

- Host 1 unit
- Convex probe 1 pcs
- Ultrasound keyboard 1 pcs
- Computer keyboard 1 pcs
- Computer mouse 1 pcs

Optional:

- Linear, Trans-vaginal, Micro-convex, Rectal probe
- Laser/ink printer
- Video Printer
- 3D imaging function
- Battery



Also can work with mouse

Specification:

-Maximum Scanning Depth: max. 250mm
-Cine Loop: max. 1024 frames
-Real-time Zoom on B mode
-Multi-frequency: 5 segment frequencies
-Scanning mode: B, 2B, B/M, M, 4B, 9B, ZOOM;
-Image gray scale: 256 level gray scale
-Image processing: Pre-processing, after-processing, dynamic range, frame rate, line average, edge; enhancement, Black/White inversion; Gray scale adjustment, contrast, brightness, γ revision.
-Gain: 0-100dB; Time gain control(TGC): 8 segment adjustment, B, M adjustment separately.
-Image store: by hardisk or USB disk, can save image and also video(avi or swf format)
-Measurement and calculation(human):
B mode: distance, circumstance, area, volume, angle, ratio, stenosis, profile, histogram;
M mode: heart rate, time, distance, slope and stenosis;
Gynecology measurement: Uterus, cervix, endometrium, L/R ovary;
Obstetric: gestation age, fetal weight, AFI;
Cardiology: LV, LV function, LVPW, RVAWT;
Urology: transition zone volume, bladder volume, RUV, prostate, kidney;
Small parts: optic, thyroid, jaw and face.
Veterinary: Cattle: BPD, CRL, TD; Horse: GA; Dog: GS; Cat: HD, BD; Sheep: BPD, CRL, TD
-Supported output apparatus: U-Disk, Laser/ink printer, video printer, VGA
-Zoom: 10 ratio, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0
-3D image function: can get rebuilt 3D image by any probe
-Monitor: 15 inch touch screen color LCD screen
-Dimension: 120cm(height)×55cm (width) ×60cm(length)
-Weight: Around 30kg
-Probe Connector 2



HBW-6P Full Digital Ultrasound Diagnostic System

BAWERS
MEDICAL EQUIPMENT



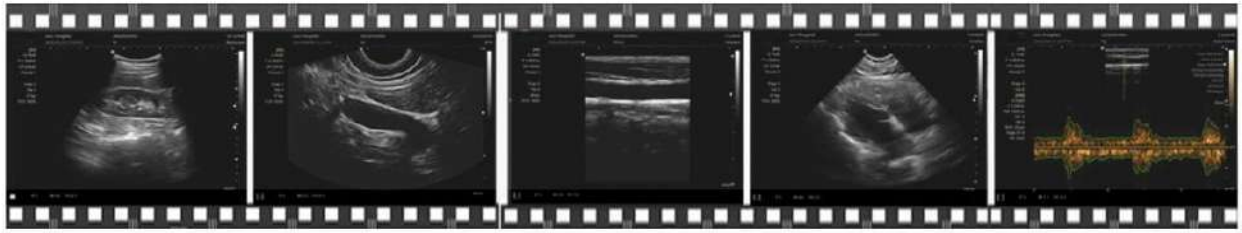


Main Features

- 12 inch LCD Display;
- Windows 7 platform operation system;
- Imaging mode B、B+B、4B、B+M、PW;
- Support convex、linear、cavity、micro-convex probe;
- Optional 3D;
- THI imaging technology;
- Support 7 kinds languages(CN\EN\RUS\POR\ESP\FR\DE);
- IMT automatic measure function;
- Editable report page;
- Support HDMI、VGA、DICOM、USB、LINE OUT;
- Equipped solid state drive, make the storage safer and more reliable;
- Environmental protection and low power consumption design;
- 3200mAh chargeable battery with management;



Convex Probe | Cavity Probe | Linear Probe | Micro-Convex



CE ISO13485

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

Datasheet



BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

1 System Overview

1.1 Clinical Applications

- Abdomen
- Obstetrics
- Gynecology
- Urology
- Cardiology
- Pediatric
- Small Parts
- Blood Vessel
- Superficial
- Orthopedic
- MSK
- Nerve
- Custom

1.2 Transducer Types

- Convex Transducer
- Linear array Transducer
- Trans-vaginal Transducer
- Micro-convex Transducer
- Phased array Transducer
- 4D volume Transducer

1.3 Imaging modes

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- Anatomic M mode
- Panoramic
- Color panoramic
- Trapezoidal (Linear transducer)
- Extended imaging (Efov)
- CW -Mode
- TDI (TVI, TVD, TVM, TEI)
- 3D/4D Mode

1.4 Standard features

- B-Mode
- B steer
- 2B/4B-Mode
- M-Mode
- B/M-Mode
- CDFI - Mode
- PDI -Mode
- CM-Mode
- PW-Mode
- CW Mode
- Anatomic M mode
- Panoramic
- Color panoramic
- Trapezoidal (Linear transducer)
- Extended imaging (Efov)
- Tissue Specific Imaging (TSI)
- Tissue Harmonic Imaging (THI)
- Speckle Reduction Imaging (SRI)
- Spatial Composite Imaging (SCI)
- Frequency Composite Imaging (FCI)
- B/D Chromatic Imaging
- Pan Zoom
- Local Zoom
- Auto Optimization

- Image Rotation
- Auto Calculate
- Auto IMT
- Archive management
- Raw data
- Multiple pregnancies
- HR Flow
- Biopsy function
- Velocity tag
- HPRF
- Imaging postprocessing
- Imaging preprocessing
- 15.6-inch monitor
- Elastic imaging
- TDI（TVI,TEI,TVM, TVD）
- Static 3D
- 4D Module
- Laser/thermal printer
- Foot Switch
- Puncture
- DICOM 3.0

1.5 Storage Format

- Image: RAW, JPG/AVI, DCM, BMP/AVI, TIFF/AVI
- Report: PDF

2 Physical Specification

2.1 Dimension and weight

- Width: approx. 380mm
- Height: approx. 361mm
- Thickness: approx.131mm
- Net Weight: approx. 6.3kg (without battery)

2.2 Monitor

- 15.6-inch high resolution color display screen
- Resolution: 1920*1080
- Tilt angle range 0-70° (U/D)

2.4 Transducer ports and holders

- 3 activated Transducer ports
- Removable Transducer holders

2.5 Electrical power

- AC adapter Input
  - Voltage: 100-240V~
  - Frequency: 50/60Hz
  - Output Voltage: 19V±1
  - Output electric current: 5.8A
- Lithium Battery
  - Battery Capacity: 10000mA
  - Output Voltage: 14.4V

2.6 Operation Environment

- Ambient temperature: 5℃~+40℃
- Relative humidity: 25%~85%
- Atmospheric pressure: 70kpa ~ 106kpa

2.7 Storage &Transport Environment

- Ambient temperature: -20℃~+55℃
- Relative humidity: 10%~95%
- Atmospheric pressure: 50kpa-106kpa

2.8. Main body

- 500G HDD
- Operating system -- Linux

3 User Interface

3.1 Monitor information

- Common info:
  - Logo
  - Hospital name
  - Display Parameters
  - System date &Time
  - Clinical application

- **Transducer type**
- **Exam mode**
- **Patient Name, Age, Gender**
- **Transducer mark**
- **Focus position**
- **Parallel scale & Vertical scale**
- **Freeze mark**
- **TGC Curve**
- **Acoustic power**
- **Volume histogram**
- **Gray bar/ Color bar**
- **Recycle bin icon**

3.3 Control panel

- **Power On/Off**
- **Imaging Mode buttons**
  - **B, C, PW, M, Quad,3D/4D, PDI, CW, TDI, ECG, Biopsy**
- **Parameter shortcut keys**
  - **Depth**
  - **Focus position**
  - **Angle/steer**
  - **Auto**
  - **Zoom**
  - **Gain**
- **User-defined programming key**
  - **Q1, Q2, Q3, Q4, Save 1, Save 2, Print**
- **Freeze button**
- **Function**
  - **Measure**
  - **Caliper**
  - **Dual**
  - **Quad**
  - **Update**
  - **Text**
  - **Body Mark**
  - **Arrow**
  - **Cursor**
  - **Clean**
  - **Print**
  - **Transducer**
  - **Patient**
  - **Report**
  - **Review**
  - **End Exam**
  - **Help**
  - **Station**
  - **Setup**
  - **QSave**
- **8-segment TGC control**
- **Trackball**
- **Keyboard**

3.4 System boot-up

- **Boot-up in about 90s**
- **Shut down in about 5s**
- **Standby time: 1, 10,30, 60 min**
- **Screen saver: 1, 10,30, 60 min**

3.5 Comments & Arrow

- **Arrow position adjustable**
- **Arrow size adjustable**
- **Arrow direction adjustable**
- **Comments position adjustable**
- **Comments fontsize adjustable**
- **User-defined adding and deleting**

3.6 Body Marks

- **More than 200 body-marks**
- **User-defined adding and deleting**

- Drag to change the position

4 Imaging Parameters

4.1 B mode

- Display Format: B (Single), 2B (Dual), 4B (Quad)
- U/D Reverse: On, Off
- L/R Reverse: On, Off
- Dual Live
- Depth: Depend on different transducer
- Frequency: Depend on different transducers
- THI:
  →Tissue Harmonic Imaging
  →Available on all transducers
- B steer:
  →For linear transducer
  →Left 4 steps adjustable
  →Right 4 steps adjustable
- Gain: 0~100
- Pan Zoom: Z0.8, Z0.9,Z1.0, Z1.1, Z1.2, Z1.4,Z1.6, Z1.8, Z2.0，Z3.0，Z4.0，Z5.0, Z6.0, Z7.0, Z 8.0, Z9.0, Z10.0
- Horizontal Ruler: Hide/Display
- Center Line: Convex transducer
- Image Quality: Pen, Gen, Res, HPen, HPen-Gen, HGen, HRes
- Dyn Ra (Dynamic range): 30-180, 5/step
- ZClear: 0~6, 1/step
- Persistence: 0~6, 1/step
- Gray Map: 1~10, 1/step
- Chrome:0~8, 1/step
- A.Power: 1~20, 1/step
- Rotation: 0°, 90°, 180°, 270°
- Focus Number: Up to 8
- FCI (Frequency Composite Imaging):
  →0 or 1
- TSI: General, Muscle, Fat, Fluid
- Field of View: 1~8, 1/step
- SCI (Spatial Composite Imaging）：0~7, 1/step
- Line Density: L, H
- EFOV:
  →0, 1, 2 Adjustable
  →Extended FOV available on Convex, Linear, Trans-vaginal, 4D volume

- M mode
  - Display Format
    →V2:3, V3:2, V3:1, H2:3, Full
  - Dyn Ra.: 30~180, 5/step
  - Gray Map: 1~10, 1/step
  - Speed: 1~6, 6 steps adjustable
  - Chrome: 0~8, 1/step
  - Save (Freeze)
  - Reset (Freeze)
  - Jump to First (Freeze)
  - Jump to Last (Freeze)
  - Replay Speed (Freeze)
  - Start Time (Freeze)
  - End Time (Freeze)
- C mode
  - ROI Position: trackball
  - ROI Size: trackball & set key
  - ROI Steer: Linear transducer
    →Left 4 steps adjustable
    →Right 4 steps adjustable
  - Dual Live: B/C, B/PDI, B/DPDI

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- **Quad: Color 4B**
- **Image Quality: Pen, Gen, Res**
- **Wall Filter: 0~7, 1/step**
- **Sensitivity: 1~4, 1/step**
- **Persistence: 0~5, 1/step**
- **Smooth: 0~5, 1/step**
- **Line Density: L, H**
- **Flow State: L M H**
- **HR Flow**
- **Priority: 0~100, 1/step**
- **Invert**
- **Velocity Tag: On, Off**
- **B/C Align**
- **Color hide: On, Off**
- **Color Map: V0~VV9, 20 steps**
- **PRF: 0.2~7.9KHz**

- **PW mode**
  - **Image Quality: Pen, Gen, Res**
  - **Wall Filter: 0~7, 1/step**
  - **Invert: On, Off**
  - **Quick Angle: 0°, +60°, -60°**
  - **Speed:1~6, 1/step**
  - **Auto Calc Cycle: 1, 2, 3**
  - **Auto Invert: On, Off**
  - **Trace Area: Above, Below, All**
  - **SV: 0.5~40mm, 0.5mm/step**
  - **HPRF: ON/OFF**
  - **Volume: 0-100, 1/step**
  - **Dyn Ra.: 24~72, 2/step**
  - **Multi sync: ON/OFF**
  - **Auto Calc Para**

    →AT, D/S, DT, ED, Flow (TAMAX), VTI, Flow (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

    →User-defined selection
  - **Chrome: 0~8, 1/step**
  - **Gray Map: 1~10, 1/step**
  - **T/F Resolution: 1~5, 1/step**
  - **Display Format：**

    →V2:3, V3:2, V3:1, H2:3, Full
  - **PRF: 0.5KHz~12.0KHz**
  - **Auto calc cycle: 1, 2, 3 Adjustable**
  - **Save (Freeze)**
  - **Reset (Freeze)**
  - **Jump to First (Freeze)**
  - **Jump to Last (Freeze)**
  - **Replay Speed (Freeze)**
  - **Select Start (Freeze)**
  - **Select End (Freeze)**

- **CW Mode**
  - **Image Quality: Gen**
  - **Dyn Ra.: 24-72, 2/step**
  - **PRF: 0.5KHz~120.0KHz**
  - **Speed: 1-6**
  - **Angle: -80°~80°, 1° /step**
  - **Gray Map: 1-10**
  - **Wall Filter: 0-7, 1/step**
  - **Chroma: 0-8**
  - **T/F Resolution: 1-5, 1/step**
  - **Invert: On/Off**
  - **Volume: 0-100, 1/step**
  - **Display Format: Full, V2:3, V3:2, V3:1, H2:3**
  - **baseline:17 step**
  - **Auto Spectrum**
  - **Auto Calc: On/Off**
  - **Auto Calc Para:**

    →Automatic spectrum calculation results

AT, D/S, DT, ED, Flow (MAX), VTI, Flow (TAMEAN), HR, MD, MMPG, MPG, PI, PPG, PS, PV, RI, S/D, TAMAX, TAMEAN

→User-defined selection

- Static 3D&4D
  - Prepare parameters
    - →Autoface: On, Off
    - →Trim Used
    - →Angle: 10°~70°， 5°/step
    - →Quality: Lowest, Low, Medium High, Highest
    - →Angle: 10°~70°， 5°/step
    - →Render mode: Surface，Depth，Max，Min，Xray，ZLive, Silhouette
  - Update parameters
    - →Display Format: Single, Dual, Quad, LeftQuad
    - →Render mode: Surface，Depth，Max，Min，Xray，ZLive, Silhouette
    - →Orientation: 0°, 90°, 180°, 270°
    - →RotateX: Adjustable
    - →RotateY: Adjustable
    - →RotateZ: Adjustable
    - →Threshold: 1-100, 1/step
    - →Opacity: 0~100, 5/step
    - →Contrast:0~100, 1/step
    - →Brightness: 0~100, 1/step
    - →Smooth: 0~12, 1/step
    - →RefSection: A, B, C
    - →VR Status: VR, MPR, MPR
    - →Reset Ori
    - →Reset All
    - →Sync
    - →Chrome:0~8, 1/step
    - →Image Enh. : 0~10
    - →Movelight
    - →Reset Trim
    - →Invert
    - →View Direction: UP/Down, Down/UP, Left/Right, Right/Left, Front/Back, Back/Front
    - →Reverse View
    - →Gray Map
  - Image Edit parameters
    - →Edit Mode: Box in, Box Out, Contour In, Contour Out, Polygon In, Polygon Out
    - →Undo
    - →Undo All
    - →Trim Depth: 0-100
  - Zpage
    - →Display Format: 2×2, 3×3, 4×4, 5×5
    - →Distance: 0.1-20, 0.1/step
    - →RefSection: A, B, C
    - →RotateX: Adjustable
    - →RotateY: Adjustable
    - →RotateZ: Adjustable
    - →Slices Full
    - →Slice Pos: -7~8, 1/step
    - →Orentation: Horizontal, Verrical
  - Layout parameters
    - →Display Format: Single, Quad
    - →3D_Niche Directior: Front Back, Back Front
    - →RefSection: A/B/C/Niche
    - →Reset Ori

- Save (Freeze)
- Reset (Freeze)
- Jump to First (Freeze)
- Jump to Last (Freeze)
- Replay Speed (Freeze)
- Start Frame (Freeze)
- End Frame (Freeze)

- Elastic
  - Opacity: 0~10, 1/step
  - Invert
  - Sync
  - Persistence
  - Smooth: 0~10, 1/step
  - Map: 1~7, 1/step
  - Save (Freeze)
  - Reset (Freeze)
  - Jump to First (Freeze)
  - Jump to Last (Freeze)
  - Replay Speed (Freeze)
- Anatomic M
  - Show A
  - Show B
  - Show C
  - Speed :1~6, 1/step
  - Gray Map: 1-10, 1/step
  - Chrome: 0~8, 1/step
  - Save (Freeze)
  - Reset (Freeze)
  - Jump to First (Freeze)
  - Jump to Last (Freeze)
  - Replay Speed (Freeze)

5 Measurement

5.1 2D mode

- General
  - Distance (2D)
  - Trace
  - Ellipse
  - Angle
  - Volume
  - Ratio (D)
  - Ratio (Trace)
  - Ratio (Ellipse)
  - Spline
  - Cross
  - Double Dist
  - Trace Len
  - Trace Len (Spline)
  - Parallel
  - B-Profile
  - B-Hist (Ellipse)
  - B-Hist (Trace)
  - B-Hist (Spline)
  - B-Hist (Rectangle)
  - Depth
  - Color Vel
  - Volume (Ellipse)
  - Volume (E+Dist)
  - Ratio (Spline)
  - Ratio (Cross)
  - Strain Ratio
  - IMT(Near)
  - IMT(Far)
  - Vol Flow

    →Vas Area, TAMEAN, TAMAX
- Abdomen
  - Liver
  - Renal L

- Renal H
- Renal W
- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- CBD
- Portal V Diam
- CHD
- GB L
- GB H
- GB wall th
- Panc duct
- Panc head
- Panc body
- Panc tail
- Spleen
- Aorta Diam
- Aorta Bif
- Iliac Diam
- Bladder
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Ureter
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol

● Gynecology

- UT L
- UT H
- UT W
- Cervix L
- Cervix H
- Cervix W
- Endo
- Ovary L
- Ovary H
- Ovary W
- Follicle1 L
- Follicle1 H
- Follicle1 W
- Follicle2 L
- Follicle2 H
- Follicle2 W
- Follicle3 L
- Follicle3 H
- Follicle3 W
- Follicle4 L
- Follicle4 H
- Follicle4 W
- Follicle5 L
- Follicle5 H
- Follicle5 W
- Follicle6 L
- Follicle6 H
- Follicle6 W
- Follicle7 L
- Follicle7 H
- Follicle7 W
- Follicle8 L
- Follicle8 H
- Follicle8 W
- Follicle9 L

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- **Follicle9 H**
- **Follicle9 W**
- **Follicle10 L**
- **Follicle10 H**
- **Follicle10 W**
- **Follicle11 L**
- **Follicle11 H**
- **Follicle11 W**
- **Follicle12 L**
- **Follicle12 H**
- **Follicle12 W**
- **Follicle13 L**
- **Follicle13 H**
- **Follicle13W**
- **Follicle14 L**
- **Follicle14 H**
- **Follicle14 W**
- **Follicle15 L**
- **Follicle15 H**
- **Follicle15 W**
- **Follicle16 L**
- **Follicle16 H**
- **Follicle16 W**
- **Ovary Vol**
- **UT Vol**
- **Uterus Body**
- **UT-L/CX-L**
- **BND**
- **DWT**
- **DWT1**
- **DWT2**
- **DWT3**
- **Mean DWT**
- **Residual Urine: BL Height, BL Depth**
- **BSD (R)**
- **UTA (R)**
- **RVA(R)**
- **BPW-SP Dist.(R)**
- **Cx-SP Dist. (R)**
- **RA-SP Dist. (R)**
- **Shuttle (R)**
- **ARA (R)**
- **LH AP Diam (R)**
- **LH Lateral Diam (R)**
- **LH Area (R)**
- **LA Angle (R)**
- **LUG (R)**
- **BSD (Va)**
- **UTA (Va)**
- **RVA (Va)**
- **BPW-SP Dist. (Va)**
- **Cx-SP Dist. (Va)**
- **RA-SP Dist. (Va)**
- **Shuttle (Va)**
- **ARA (Va)**
- **LH AP Diam (Va)**
- **LH Lateral Diam (Va）**
- **LH Area (Va)**
- **LA Thickness (Va)**
- **LA Angle (Va)**
- **LA Thickness (Va)**
- **LA Angle (C)**
- **LUG (C)**
- **IAS Damage**
- **EAS Damage**

● **Cardiology**

- **Ao Diam (2D)**
- **Ao Arch Diam (2D)**

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- **Ao Asc Diam (2D)**
- **Ao Desc Diam (2D)**
- **Ao Isthmus (2D)**
- **Ao st junct (2D)**
- **Ao Sinus Diam (2D)**
- **AVA**
- **ASD Diam**
- **ACS (2D)**
- **AV Diam**
- **Duct Art Diam**
- **HR (Cube 2D)**
- **HR (Gibson 2D)**
- **HR (Teich 2D)**
- **IVC Diam (Expir)**
- **IVC Diam (Insp)**
- **IVSd (2D)**
- **IVSs (2D)**
- **LA Area**
- **LA Diam (2D)**
- **LA Major**
- **LA Minor**
- **LCA Diam**
- **LPA Diam (2D)**
- **LV Area (d)**
- **LV Area (s)**
- **Diastole (Cube2D)**
- **Diastole (Gibson2D)**
- **Diastole (Teich2D)**
- **LV Major**
- **LV Minor**
- **Systole (Cube 2D)**
- **Systole (Gibson2D)**
- **Systole (Teich2D)**
- **LVIDd (2d)**
- **LVIDd (Cube 2D)**
- **LVIDd (Gibson2D)**
- **LVIDd (Teich2D)**
- **LVIDs (2d)**
- **LVIDs (Cube 2D)**
- **LVIDs (Gibson2D)**
- **LVIDs (Teich2D)**
- **LVOT Diam**
- **RVOT Diam**
- **LVPWd (2D)**
- **LVPWs (2D)**
- **MCS (2D)**
- **MPA Diam (2D)**
- **MVA**
- **MV Diam**
- **MV EPSS (2D)**
- **PDA Diam**
- **PEd (2D)**
- **PEs (2D)**
- **PFO Diam**
- **Pre Ductal**
- **Post Ductal**
- **PV Diam**
- **RA Area**
- **RA Major**
- **RA Minor**
- **RCA Diam**
- **RPA Diam (2D)**
- **RV Area (d)**
- **RV Area (s)**
- **RV Major**
- **RV Minor**
- **RVAWd (2D)**
- **RVAWs (2D)**

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- RVDd (2D)
- RVDs (2D)
- SVC Diam (Expir)
- SVC Diam (Insp)
- TV Diam
- TVA
- VSD Diam
- LVIDd (BP Ellipse)
- LVIDs (BP Ellipse)
- LVAd sax MV (BP Ellipse)
- LVAs sax MV (BP Ellipse)
- LVAd apical (BP Ellipse)
- LVAs apical (BP Ellipse)
- HR (BP Ellipse)
- LVAd sax MV (Bullet)
- LVAs sax MV (Bullet)
- LVLd apical (Bullet)
- LVLs apical (Bullet)
- HR (Bullet)
- LA Diam (LA Vol A-L)
- LAA (A2C)
- LAA (A4C)
- LA Vol (A2C)
- LA Vol (A4C)
- LVAd sax Epi (LV Mass A-L)
- LVAd sax Endo (LV Mass A-L)
- LVLd apical (LV Mass A-L)
- IVSd (LV Mass Cube-2D)
- LVIDd (LV Mass Cube-2D)
- LVPWd (LV Mass Cube-2D)
- LVAd sax Epi (LV Mass T-E)
- LVAd sax Endo (LV Mass T-E)
- a
- d
- RA Vol (A4C)
- LVLd apical (SP Ellipse)
- LVAd apical (SP Ellipse)
- LVLs apical (SP Ellipse)
- LVAs apical (SP Ellipse)
- HR (SP Ellipse)
- LVLd apical (Simp)
- LVLd apical (Simp)
- LVLs apical (Simp)
- LVAd sax MV (Simp)
- LVAs sax MV (Simp)
- LVAd sax PM (Simp)
- LVAs sax PM (Simp)
- HR (Mod Simp)
- EDV (Simp BP-A2C)
- ESV (Simp BP-A2C)
- EDV (Simp BP-A4C)
- ESV (Simp BP-A4C)
- HR (Simp BP)
- EDV (Simp SP-A2C)
- ESV (Simp SP-A2C)
- HR (Simp SP A2C)
- EDV (Simp SP-A4C)
- ESV (Simp SP-A4C)
- HR (Simp SP A4C)
- LA/AO (2D)
- AO/LA (2D)

- **Vascular**
  - Stenosis D
  - Stenosis A
- **Urology**
  - Renal L
  - Renal H
  - Renal W

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- Prostate L
- Prostate H
- Prostate W
- Seminal L
- Seminal H
- Seminal W
- Testicular L
- Testicular H
- Testicular W
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Prostate Mass1 d1
- Prostate Mass1 d2
- Prostate Mass1 d3
- Prostate Mass2 d1
- Prostate Mass2 d2
- Prostate Mass2 d3
- Prostate Mass3 d1
- Prostate Mass3 d2
- Prostate Mass3 d3
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W
- Scrotal Wall
- Renal Vol
- Prostate Vol
- Testis Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol

● SmallParts

- Thyroid L
- Thyroid H
- Thyroid W
- Isthmus H
- Testicular L
- Testicular H
- Testicular W
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- Scrotal Wall
- Breast Mass1 L
- Breast Mass1 H
- Breast Mass1 W
- Nip. -Mass1 Dist.
- Skin-Mass1 Dist.
- Breast Mass2 L
- Breast Mass2 H
- Breast Mass2 W
- Nip. -Mass2 Dist.
- Skin-Mass2 Dist.
- Breast Mass3 L
- Breast Mass3 H
- Breast Mass3 W
- Nip. -Mass3 Dist.
- Skin-Mass3 Dist.
- Breast Mass4 L
- Breast Mass4 H
- Breast Mass4 W
- Nip.-Mass4 Dist.
- Skin-Mass4 Dist.
- Breast Mass5 L
- Breast Mass5 H
- Breast Mass5 W
- Nip. -Mass5 Dist.
- Skin-Mass5 Dist.
- Breast Mass6 L
- Breast Mass6 H
- Breast Mass6 W
- Nip. -Mass6 Dist.
- Skin-Mass6 Dist.
- Breast Mass7 L
- Breast Mass7 H
- Breast Mass7 W
- Nip. -Mass7 Dist.
- Skin-Mass7 Dist.
- Breast Mass8 L
- Breast Mass8 H
- Breast Mass8 W
- Nip. -Mass8 Dist.
- Skin-Mass8 Dist.
- Breast Mass9 L
- Breast Mass9 H
- Breast Mass9 W
- Nip. -Mass9 Dist.
- Skin-Mass9 Dist.
- Breast Mass10 L
- Breast Mass10 H
- Breast Mass10 W
- Nip. -Mass10 Dist.
- Skin-Mass10 Dist.
- Thyroid Mass1 d1
- Thyroid Mass1 d2
- Thyroid Mass1 d3
- Thyroid Mass2 d1
- Thyroid Mass2 d2
- Thyroid Mass2 d3
- Thyroid Mass3 d1
- Thyroid Mass3 d2
- Thyroid Mass3 d3
- Thyroid Vol
- B- distance
- Pleural T

● Orthopedics

- HIP
- HIP (α)
- HIP (β)
- HIP-Graf

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- d/D

- **Obstetrics**
  - GS
  - YS
  - CRL
  - NT
  - BPD
  - OFD
  - HC
  - AC
  - FL
  - TAD
  - APAD
  - TCD
  - CM
  - LVW
  - HW
  - OOD
  - IOD
  - HUM
  - Ulna
  - RAD
  - Tibia
  - FIB
  - CLAV
  - Vertebrae
  - MP
  - Foot
  - Ear
  - APTD
  - TTD
  - FTA
  - THD
  - Hrtc
  - TC
  - Umb VD
  - F-kidney
  - Mat kidney
  - Cervix L
  - AF
  - NF
  - Orbit
  - PL Thickness
  - Sac Diam1
  - Sac Diam2
  - Sac Diam3
  - AF1
  - AF2
  - AF3
  - AF4
  - LVIDd
  - LVIDs
  - LA Diam
  - LV Diam
  - RVIDd
  - RVIDs
  - RA Diam
  - RV Diam
  - IVSd
  - IVSs
  - IVS
  - LA Area
  - LV Area
  - RV Area
  - RA Area
  - Ao Diam
  - MPA Diam
  - LVOT Diam

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- LVOT Diam
- Facial Angle
- HrtA
- MV Diam
- PV Diam
- Ao Asc Diam
- Ao Desc Diam
- Duct Art. Diam
- TV Diam
- LPA Diam
- RPA Diam
- IVC Diam
- AV Diam
- UT L
- UT H
- UT W
- Endo
- Mean Sac Diam
- AFI
- EFW
- EFW2
- HC/AC
- FL/AC
- FL/BPD
- AXT
- CI
- FL/HC
- HC (C)
- Hrtc/TC
- TCD/AC
- LVW/HW
- LVD/RVD
- LAD/RAD
- AoD/MPAD
- LAD/AoD

● Emergency

- Renal L
- Renal H
- Renal W
- CBD
- Portal V Diam
- CHD
- GB wall th
- Aorta Diam
- Aorta Bif
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- GS
- YS
- CRL
- UT L
- UT H
- UT W
- Endo
- Ovary L
- Ovary H
- Ovary W
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur. Vol
- Ovary Vol
- UT Vol

- **UT SUM**

5.2 M mode

- **General**
  - **Distance (M)**
  - **HR (M)**
  - **Slope**
  - **Time (M)**
  - **Velocity**
- **Cardiology**
  - **Ao Arch Diam (M)**
  - **Ao Asc Diam (M)**
  - **Ao Desc Diam (M)**
  - **Ao Diam (M)**
  - **Ao Isthmus (M)**
  - **Ao Sinus Diam (M)**
  - **Ao st junct (M)**
  - **ACS (M)**
  - **HR (Cube M)**
  - **HR (Gibson M)**
  - **HR (Teich M)**
  - **IVSd (M)**
  - **IVSs (M)**
  - **LA Diam (M)**
  - **LPA Diam (M)**
  - **Diastole (Cube M)**
  - **Diastole (Gibson M)**
  - **Diastole (Teich M)**
  - **Systole (Cube M)**
  - **Systole (Gibson M)**
  - **Systole (Teich M)**
  - **LVET (M)**
  - **LVIDd (Cube M)**
  - **LVIDd (Gibson M)**
  - **LVIDd (Teich M)**
  - **LVIDd (M)**
  - **LVIDs (M)**
  - **LVIDs (Cube M)**
  - **LVIDs (Gibson M)**
  - **LVIDs (Teich M)**
  - **LVPEP (M)**
  - **LVPWd (M)**
  - **LVPWs (M)**
  - **MCS (M)**
  - **MPA Diam (M)**
  - **MV A Amp**
  - **MV E Amp**
  - **MV D-E Slope**
  - **MV DE**
  - **MV E-F Slope**
  - **MV EPSS (M)**
  - **PEd (M)**
  - **PEs (M)**
  - **RPA Diam (M)**
  - **RVAWd (M)**
  - **RVAWs (M)**
  - **RVDd (M)**
  - **RVDs (M)**
  - **RVET (M)**
  - **RVPEP (M)**
  - **TAPSE**
  - **IVSd (LV Mass Cube-M)**
  - **LVIDd (LV Mass Cube-M)**
  - **LVPWd (LV Mass Cube-M)**
  - **MV C-O dur**
  - **LVET (LV Tei Index-M)**
  - **LA/AO (M)**
  - **AO/LA (M)**
- **Obstetrics**

- FHR
- LVIDd (M)
- LVIDs (M)
- RVIDd (M)
- RVIDs (M)
- IVSd (M)
- IVSs (M)

● Emergency

- FHR

5.3 Doppler

● General

- PS/ED
- Vel
- HR (Doppler)
- Time (Doppler)
- Acceleration
- D Trace
- Ratio (Vel)
- Ratio (VTI)
- Vol Flow
  - →Vas Area
  - →TAMEAN
  - →TAMAX

● Abdomen

- Ren A Org
- Arcuate A
- Segment A
- Interlobar A
- Renal A
- M Renal A
- Renal V
- Aorta
- Celiac Axis
- SMA
- C Hepatic A
- Splenic A
- IVC
- Portal V
- M Portal V
- Hepatic V
- Lt Hepatic V
- Rt Hepatic V
- M Hepatic V
- Splenic V
- SMV
- RAR
- SMA/AO
- CA/AO

● Cardiology

- MV Aa (lateral)
- MV Aa (medial)
- AAo Vmax
- AV VTI
- AV Vmax
- AR DecT
- AR PHT
- AR Ved
- AR Vmax
- AR VTI
- MV ARa (lateral)
- MV ARa (medial)
- ASD Vmax
- AV AccT
- AV DccT
- Coarc Pre-Duct
- Coarc post-Duct
- DAo Vmax

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

- MV DRa (lateral)
- MV DRa (medial)
- MV Ea (lateral)
- MV Ea (medial)
- HR (Doppler)
- IVC Vel (Expir)
- IVC Vel (Insp)
- IVCT
- LPA Vmax
- LVET (Doppler)
- LVOT AccT
- LVOT VTI
- LVOT Vmax
- LVPEP (D)
- MPA Vmax
- dp/dt
- MR VTI
- MR Vmax
- MS Vmax
- MV A Dur
- MV A Vel
- MV VTI
- MV AccT
- MV DecT
- MV E Dur
- MV E Vel
- MV E VTI
- IVRT
- MV VTI
- MV Vmax
- PVein A Dur
- PVein A Vel
- PVein D Vel
- PVein D VTI
- PVein DecT
- PVein S Vel
- PVein S VTI
- PDA Vel (d)
- PDA Vel (s)
- PR PHT
- PR VTI
- PR Ved
- PR Vmax
- PV AccT
- PV VTI
- PV Vmax
- RAP
- RAP Vmax
- RVET (Doppler)
- RVOT Vmax
- RVOT VTI
- RVPEP (Doppler)
- MV Sa (lateral)
- MV Sa (medial)
- SVC Vel (Expir)
- SVC Vel (Insp)
- TR VTI
- TR Vmax
- TV A Dur
- TVA Dur
- TV A Vel
- TV AccT
- TV DecT
- TV E Vel
- TV VTI
- TV Vmax
- VSD Vmax
- Hepatic V S Vel

- **Hepatic V D Vel**
- **MV HR**
- **TV HR**
- **AV HR**
- **PV HR**
- **MV C-O dur (D)**
- **LVET (LV Tei Index-Doppler)**
- **AR Rad**
- **AR Als Vel**
- **MR Rad**
- **MR Als Vel**
- **PR Rad**
- **PR Als Vel**
- **TR Rad**
- **TR Als Vel**
- **TV C-O dur**
- **RVET (RV Tei Index)**
- **MV E/A**
- **MVA (PHT)**
- **TV E/A**
- **TVA (PHT)**

● **Vascular**

- **CCA**
- **Bulb**
- **ICA**
- **ECA**
- **Vert A**
- **InnomA**
- **SubclavA**
- **Axill A**
- **Brachial A**
- **Ulnar A**
- **Radial A**
- **Subclav V**
- **Axill V**
- **Cephalic V**
- **Basilic V**
- **Ulnar V**
- **Radial V**
- **C. IliacA**
- **Ex.lliac A**
- **CFA**
- **SFA**
- **PopA**
- **TP Trunk A**
- **Peroneal A**
- **P. TibA**
- **A. TibA**
- **Dors.Ped A**
- **C. Iliac V**
- **Ex. Iliac V**
- **Femoral V**
- **SaphV**
- **PopV**
- **TP Trunk V**
- **Sural V**
- **Soleal V**
- **Peronea V**
- **P. TibV**
- **A. TibV**
- **ACA**
- **MCA**
- **PCA**
- **AComA**
- **PComA**
- **BA**
- **IIA**
- **DFA**

- Ba V
- Brachial V
- IIV
- CFV
- SFV
- DFV
- SSV
- ASP
- BSP
- ICA/CCA (PS)

● Urology

- Testis A
- Testis V
- Epididymis A
- Epididymis A

● SmallParts

- STA
- ITA

● Obstetrics

- Umb A
- Duct Veno
- Placenta A
- MCA
- Fetal Ao
- Desc Aorta
- Ut A
- Ovarian A
- FHR (Doppler)
- Asc Aorta
- RVOT
- LVOT

● Emergency

- FHR

6 System setup

6.1 System Preset

● Region

- Hospital Info: Name, Address, Telephone, Fax, Hospital icon
- Language & Time:
  → Languages: English, Chinese, French, Russian, Spanish
  →Time Zone
  →Date & Time
  →DateFormat: yyyy-MM-dd, MM-dd-yyyy dd-MM-yyyy
  →Time Format: 24Hours, 12Hours

● General

- Patient information
  →Patient Information: Name, DOB, Gender, Age, Hospital, ID, Operator
  →Height and Weight unit: Metric, British
  →Body surface area formula(BSA): Eastern, Western
- Exam Settings
  →Status after exam ends: Scan, New Patient, Worklist
  →Send after exam
- Sleep Mode
  →ScreenSaver: Waiting 1,10,30,60 min
  →Standby: Waiting 1,10,30,60 min

● Image

- Image Storage
  →Cine lengths (s):Adjustable

BWUC-500

Portable Color Doppler Ultrasonic Diagnostic System

CardiacCycle: 1~16

→Image Size: Image Area, Standard Area

→Video Output: PAL, NTSC

- Image Setting

→Transducer: 3C5PD, 3C5PB, 3C5PDS, 7L4PD, 7L4PB, 7L4PDS, 2P2MA, 3P2PA, 6E1PD, 6E1PDS, 6E1PB, 6C1PD, 4V4CDS

→Display Format: V2:3, V3:2, V3:1, H2:3, Full

→TI Style: TIB, TIC, TIS

→Freeze: Replay, Measure, Caliper

→Steer: C&PW, C/PW, Auto Invert

→Auto Invert

→Horizontal Ruler

→Panoramic Ruler

- **Apply**

- Measuring Cursor

→ Type: Number, Symbol

→Size: Large, Medium, Small

→Color (Active): Green, Yellow, Red, White

→Color (Inactive):Green, Yellow, Red, White

→Result Size: Large, Medium, Small

→Cardiac cycle: 1~8

→Delete the measurement results when deleting calipers

- Comment

→Font Size: Large, Medium, Small

→Arrow Size: Large, Medium, Small

→Automatically clear comments when unfreeze the image or switch the probe or exam mode

→Automatically clear the body mark when unfreeze the image

- Follicle

→Calculation method: Signal, Double, Three

- **OB**

- Fetal GA

- **Mean Sac Diam →Daya, Hellman**
- **OOD→ Jeanty**
- **TCD→Hill, Nicolaides**
- **CLAV→Yarkoni**
- **Tibia→ Jeanty**
- **Ulna→ Jeanty**
- **HUM→ Jeanty, ASUM**
- **THD→Hansmann**
- **FTA→Osaka**
- **TAD→CFEF**
- **OFD→Hansmann, Nicolaides, ASUM**
- **FL→Hadlock, Tokyo, Merz, Hansmann, Warda, Chitty, Osaka, Nicolaides, ASUM, Jeanty, Hohler, China**
- **AC→Hadlock, Jeanty, Merz, Chitty, ASUM, CFEF, Hansman**
- **HC→Hadlock, Jeanty, Hansmann, ChittyPL, Chitty_Derived, Nicolaides, ASUM, CFEF**
- **BPD→Hadlock, Tokyo, Jeanty, Kurtz, Hansmann, Merz, Rempen, ChittyOI, Osaka, China, Nicolaides, ASUM**
- **CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM, Jeanty, Nelson, China, RobinsonBMUS**
- **GS→Rempen, Tokyo, Hansmann, China**
- **EFW2→Hadlock, Tokyo**
- **EFW→Hadlock, Tokyo**
- **Result Windows:**

→Display EDD

→Display GA in the report

- Fetal Weight
  - FetalWeight
    - →Hadlock (AC,FL)
    - →Hadlock (AC,FL,BPD)
    - →Hadlock (AC,FL,HC)
    - →Hadlock (AC,FL,HC,BPD)
    - →Shepard
    - →Merz1
    - →Merz2
    - →Hansmann (BPD,THD)
    - →Tokyo
    - →Osaka (FL,BPD,FTA)
    - →Campbell
  - FetalWeight2
    - →Hadlock (AC,FL)
    - →Hadlock (AC,FL,BPD)
    - →Hadlock (AC,FL,HC)
    - →Hadlock (AC,FL,HC,BPD)
    - →Shepard
    - →Merz1
    - →Merz2
    - →Hansmann (BPD,THD)
    - →Tokyo
    - →Osaka (FL,BPD,FTA)
    - →Campbell
  - WeightUnit: METRIC, IMPERIAL, METRIC & IMPERIAL
- Fetal Weight Percentile
  - Formula: NULL, Hadlock, Brenner, William
  - Type: AUA/CUA, LMP&AUA/CUA, LMP
- Fetal Growth Curve
  - FL/HC→Hadlock
  - HC/AC→Campbell
  - AFI→Moore
  - UmbARI→JSUM
  - UmbAPI
  - MCARI→JSUM
  - MCAPI
  - CM→Nicolaides
  - TCD→Hill, Goldstein, Nicolaides
  - CLAV→Yarkoni
  - FIB→Merz, Jeanty
  - RAD→Merz, Jeanty
  - Tibia→Merz, Jeanty
  - Ulna→Merz, Jeanty
  - HUM→ ASUM, Jeanty, Merz
  - THD→Hansmann
  - FTA→Osaka
  - TAD→Merz, CFEF
  - APAD→Merz
  - OFD→Hansmann, Merz, Nicolaides, ASUM, Jeanty
  - FL→Hadlock, Tokyo, Merz, Hansmann, O_Brien, Warda, Chitty, Jeanty, Osaka, Nicolaides, ASUM, CFEF
  - AC→Hadlock, Jeanty, Merz, Chitty, Nicolaides, ASUM, CFEF, Hansman
  - HC→Hadlock, Merz, Hansmann, Jeanty, CFEF, ChittyPL, Chitty_Derived, Nicolaides, ASUM
  - BPD→Hadlock, Tokyo, Jeanty, Kurtz,

Sabbagha, Hansmann, Merz, Rempen, ChittyOI, Osaka, Nicolaides, ASUM, CFEF

- CRL→Hadlock, Tokyo, Robinson, Rempen, Hansmann, ASUM
- GS→Rempen, Tokyo, Hansmann, Hellman
- EFW2→Hadlock, Hansmann, Tokyo, Brenner, William
- FEW→Hadlock, Hansmann, Tokyo, Brenner, William
- OB Graph:1*1, 1*2, 2*2,2*1

- Customize

- Button Type: Button, Foot Switch
- Button: Save1, Save2, Q1, Q2, Q3, Q4, Print
- Function Type
  - Output: Save Image, Save Cine
  - Print: Analog Print, Digital Print
  - Image Mode:
    - →Enter TDI Mode
    - →Enter Elasto Mode
    - →Enter Pano Mode
    - →Enter Anatomic M Mode
    - →Enter Dual Live Mode
    - →Enter Quad Mode
  - Other: Q Save, Freeze/Unfreeze, Ultrasound assistant
- Trackball Speed: Slow, Medium, Fast
- Button Brightness:0-9
- Button Volume: On/Off

- Admin

- Enable Admin: On/Off
  - Username, password, Add, Delete, Change Password

6.2 Exam Preset

- Available on All transducers
- Add New Applications
- Delete Applications
- Set up Default Clinical App of boot
- Adjustable position of application

6.3 Measure Preset

- Measure
  - Measurement items can be added and moved
  - 2D, M, Doppler
- Caliper
  - Measurement items can be added and moved
  - 2D, M, Doppler
- Report
  - Preset Report Template Name

6.4 Network Preset

- Local TCP/IP

-Wired Network

- DHCP, Static

IP Address, Subnet Mask, Gateway

- DICOM Local

-Localhost Dicom Service Property

- AE Title, Port, PDU

- Serve Setting
  - Device, IP
- Device list
  - Device, IP
  - Set Dicom Service, Delete
- DICOM Service
- Storage
- Print
- Worklist
- MPPS

- Storage Commitment
- Query/retrieve

6.5 Print Preset

- Print Service
  - Add
  - Delete
  - Rename
  - Add Printer
  - Default
- Printer Property

  Service Type, Service Name, Printer, Paper Orientation, Paper Size
- Printing Parameter

  Brightness, Contrast, Saturation, Rows, Columns

6.6 About & Maintenance

- System Info
- Detailed Info
- Option
- Other

7 Transducer Parameters

- Convex probe 3C5PD
  - Applications: ABD, OB, GYN, PedABD, Urology
  - Number of Elements:128
  - Harmonics frequency: 1.2-3.0, 2.6-4.5, 4.2-6.5MHz
  - Basic frequency: 3.4, 4.0, 5.0, 6.4MHz
  - Depth range: 40~420mm
- Linear array probe 7L4PD
  - Applications: Carotid, Thyroid, Nerve, Superficial, MSK, PedABD, Orthopedic, Vascular
  - Number of Elements: 128
  - Harmonics frequency: 4.2-6.3, 6.0-9.5, 8.5-15.0MHz
  - Basic frequency: 8.0, 9.4, 10.6, 12.2MHz
  - Depth range: 20-280mm
- Phased array probe 3P2PA
  - Applications: Adult Cardiac, Ped Cardiac, TCI, ABD
  - Number of Elements: 64
  - Harmonics frequency: 1.2-2.6, 2.4-3.8, 3.5-6.5MHz
  - Basic frequency: 3.0, 4.0, 5.0, 6.0MHz
  - Depth range: 30~320mm
- Volume probe 4V4CDS
  - Applications: ABD, OB, GYN
  - Number of Elements: 128
  - Harmonics frequency: 1.6-3.0, 2.8-4.5, 4.2-8.0MHz
  - Basic frequency: 5.0, 6.4, 7.2, 8.0MHz
  - Depth range: 40~420mm
- Trans-vaginal probe 6E1PD
  - Applications: OB/GYN, Prostate
  - Number of Elements: 128
  - Harmonics frequency: 3.2-5.5, 5.2-7.5, 6.8-12.0Hz
  - Basic frequency: 6.4, 7.2, 8.0, 10.0MHz
  - Depth range: 20~280mm
- Micro-convex Probe 6C1PD
  - Applications: Ped ABD, Ped Cardiac, TCI
  - Number of Elements: 128
  - Harmonics frequency: 3.5-6.3, 6.0-7.5, 6.8-12.0MHz

- Basic frequency: 6.4, 7.2, 8.0, 10.0MHz
- Depth range: 20~280mm

8 System Inputs & Outputs

- HDMI: 1
- PRINT: 1
- USB 2.0: 2
- USB 3.0: 1
- S-Video: 1
- Video: 1
- Network port: 1
- Power in: 1

9 Standard Package

- Main Unit
- Transducers selectable
- Power cord/grounding cable
- Fuse (2)
- User's Manual
- Coupling Gel (0.25L)

10 Optional Accessories

- Transducers
- Pedal Switch
- Thermal Printer
- Laser Printer
- Biopsy

11 Certificates

- Quality Standards
  - ISO9001
  - ISO13485

◆ NOTICE:

Not all features or specifications described in this document may be available in all transducers and all modes.

Zoncare reserves the right to make changes in specifications and features shown herein.

Zoncare Confidential

Version 1.0 Jan. 2022

BAWERS
MEDICAL EQUIPMENT

BWUC-500

Portable Color Doppler Ultrasonic System

Slimmer I Clearer I Stronger



Ergonomic Design

Match the ingenious ergonomic design with the compact size, 650 has remarkable adaptability which can fit variable usage scenario.



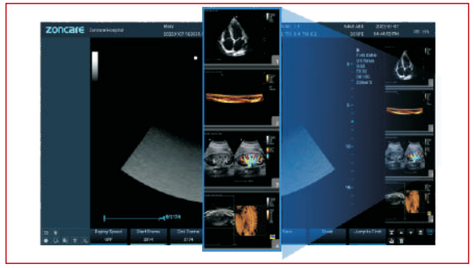


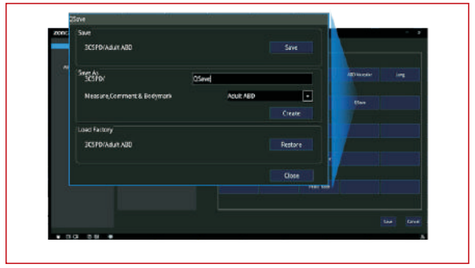
Transducers

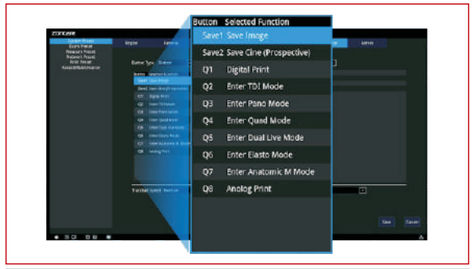


Efficient and Fast Workflow

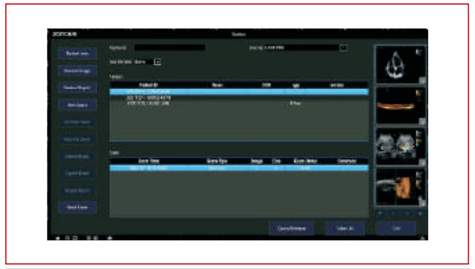
- Multiple user-defined programming buttons
- One-key Automatic Optimization Technology
- One-key operation flow, quick switching and easy to use
- Visualize user-defined presets function (QSave)
- Metadata and image postprocessing
- DICOM 3.0
- USB 3.0 port makes transmission more convenient
- Thumbnail clipboard - easy to review the images and videos


Clipboard


Qsave



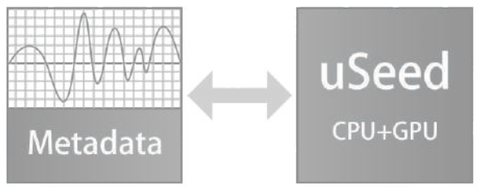
Station


User-defind Buttons



uSeed Platform

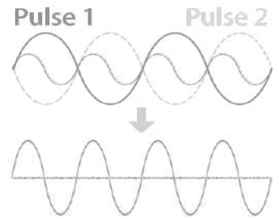
HUC-500 facilitates accurate diagnosis based on uSeed metadata beamforming imaging technology platform. This brand-new platform is developed by CPU + GPU heterogeneous computing technology. The images in uSeed platform are saved as metadata for postprocessing.



Technologies

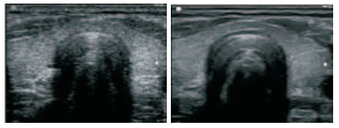
Pulse Inverse Harmonic Imaging PIHI

PIHI reduces the distortion generated by the fundamental wave, and greatly improve the signal-to-noise ratio.



Speckle Reduction Imaging

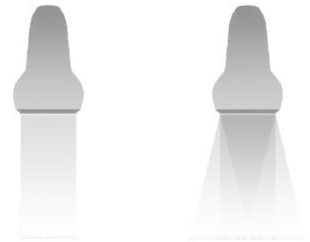
SRI technology significantly reduces the unwanted speckle, provides enhanced tissue boundary and tissue echo for confident clinical diagnosis.



SRI OFF SRI ON

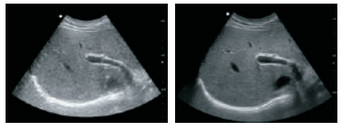
Spatial Compound Imaging

SCI provides better contrast resolution, reduces the speckle noise and smoothes the imaging of homogeneous tissue.



Frequency Composite Imaging

Combine the high penetration of the fundamental frequency and the high resolution of the harmonic frequency to improve the detail resolution and contrast resolution of the near field and the far field to provide the best image quality.



FCI OFF FCI ON

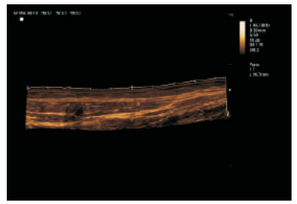


Comprehensive Clinical Applications

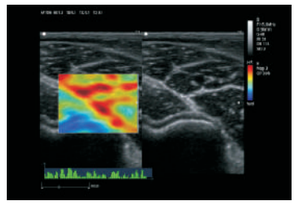
HUC-500 provides remarkable performance in Abdomen, Gynecology (including endocavity), Obstetric, Cardiology, Small parts (Breast, Testes, Thyroid, etc.), Urology, Musculoskeletal and Peripheral vascular. A variety of imaging modes brings a comprehensive clinical application.

- B Steer, 3D/4D, ZPage, Zlive, PW, CW, AMM, CMM, Panoramic Imaging, Elastic imaging mode, EFOV, TDI
- Auto IMT, Auto NT, Auto Trace, TSI, THI, SRI, SCI, FCI, Biopsy function

Radiology

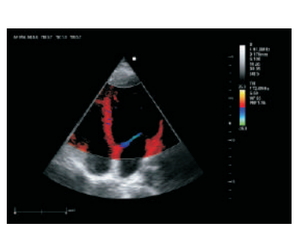


Panoramic Imaging
Panoramic Imaging could help to get extended and complete view of the anatomical structure.

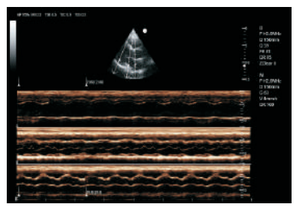


Elastic Imaging
Elastography plays an important role in clinical diagnosis, especially in lesions assessing. Elastography imaging could detect the hardness of nodule, therefore it may help to differentiate malignant from benign lesions.

Cardiology

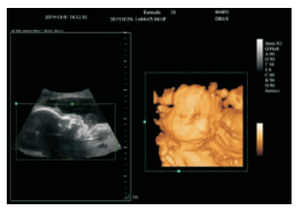


TDI
Tissue Doppler Imaging (TDI) could monitor local myocardial movement, and evaluate the movement quantitatively.



AMM
AMM allows placing up to 3 sample lines at any angles, the thickness and thickening of each ventricular wall could be observed accurately, which is also helpful for the accurate meas urement of ejection fraction.

Obstetrics and Gynecology



3D/4D
advanced 3D/4D mode delivers amazing lifelike 3D/4D images.
With Zlive,
H U C 5 0 0 has the ability to manipulate light and shadow anywhere in the images.

BAWERS
MEDICAL EQUIPMENT





P15

Enhance Your Ultrasound Exam

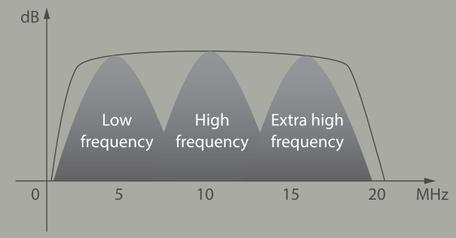
U-P1520200226



A feature-rich system inheriting the Wi-Sono high-end platform, the P15 uses an array of advanced tools to help enhance the image quality. It's a cost-effective, simplified console with an intuitive user interface and multiple intelligent functions.

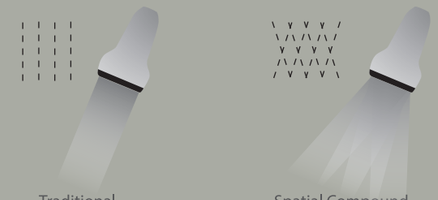
Broad bandwidth Platform

The system ultra broad bandwidth and advanced probe technology enable better information collection.They provide higher resolution at depth with enhanced image quality for accurate diagnosis.



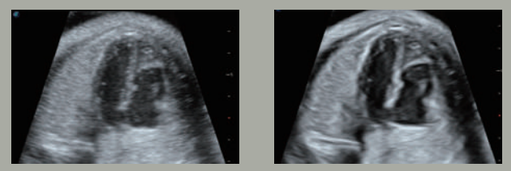
Spatial Compound Imaging

Spatial Compound Imaging utilizes several lines of sight for optimal contrast resolution, speckle reduction and border detection. with which P15 is ideal for superficial and abdominal imaging with better clarity and improved continuity of structures.



µ-Scan+

The new generation µ-Scan imaging technology gives you better image quality by reducing noise, improving signal strength and improving visualization.



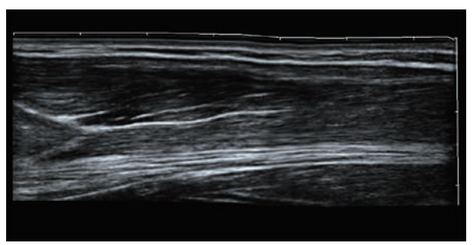
Dynamic Color

Dynamic color improves upon already existing color Doppler technologies for a clearer capture of color flow and detailed visualization of even tiny veins with lower velocities.



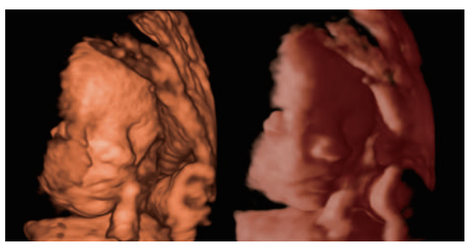
Real-time Panoramic

With real-time panoramic, you can acquire an extended field of view for large organs or long vessels for easy measurement and diagnostic efficiency. Accomplished in real-time for the convenience of the sonographers, any mistake can also be easily back tracked and corrected without interrupting the scan.



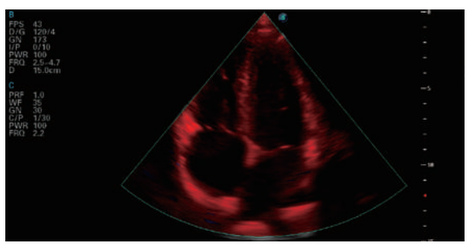
3D/4D

Outstanding volume performance with speed and convenience makes P15 outshine others on volume imaging.



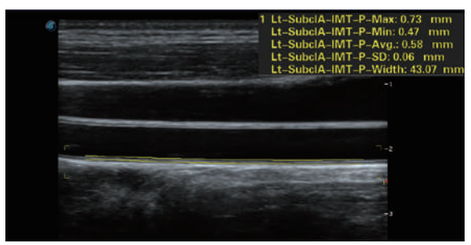
Tissue Doppler Imaging

Tissue Doppler Imaging allows clinical doctors to quantitatively evaluate local myocardial movements and functions, facilitating them with the ability to analyze and compare the motions of the different parts of the patient's heart.



Auto IMT

Quick measurement of intra-media vessel thickness ensures good reproducibility and high diagnostic efficiency.



Comfort and Productivity Lie on Design





Large size monitor and touch screen



Built-in Wifi



Gel warmer



Removable probe holder



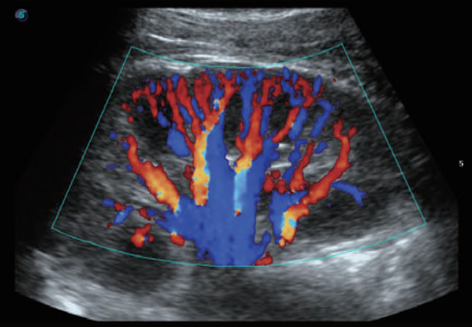
Large capacity built-in battery

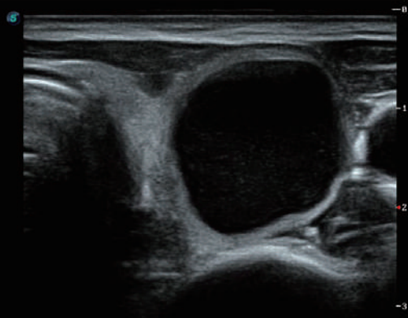


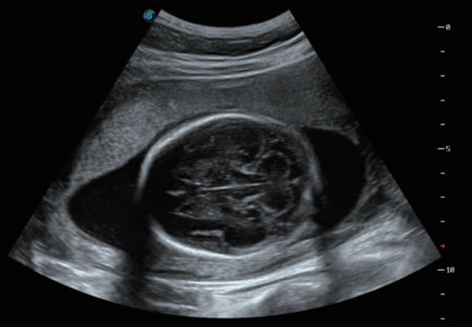
Five probe connectors

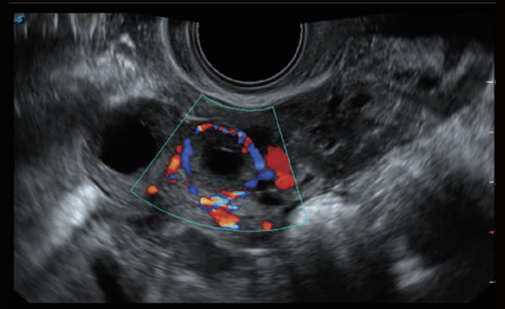


Foot switch

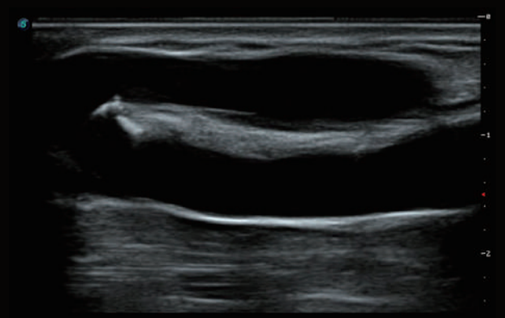


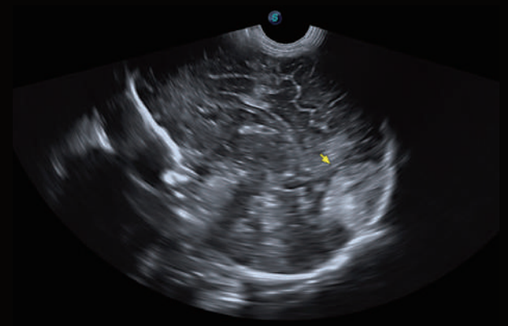














3D/4D/5D Color Ultrasonic Diagnostic Apparatus

Technical Specifications

1. **Product Name: Color Ultrasonic Diagnostic Apparatus**
1.1 Structure type: Dual-screen trolley type
2. **Purpose and applications:** 2.1 To meet the basic hospitals in the abdomen, obstetrics, gynecology, heart, urinary system, small organs, superficial, blood vessels, pediatrics, neonatal, muscle, physical examination and other inspections and diagnosis.
3. **Main specifications and system overview:**
3.1 Operating system: Windows 8 3.2 Pulse Wave Doppler 3.3 Directional Energy Doppler 3.4 Real-time triple synchronization 3.5 Spatial Composite Imaging 3.6 Tissue Harmonic Imaging 3.7 2B/4B Imaging 3.8 Support system languages: Chinese, English, French, Russian, Spanish. 3.9 Standard monitor size: 21.5 inch, high-definition medical grade LCD display, and 13.3 inch touch screen 3.10 Integrated clipboard: display the saved images at the bottom of the screen, which can be directly transferred or deleted 3.11 With on-site upgradeable functions 3.12 Preset conditions: For different inspections, preset inspection conditions for optimized images, reducing adjustments during operation, and commonly required external adjustments and combined adjustments 3.13 Support real-time 3D imaging function (3D/4D/5D) 3.14 Probe ports: 4 active 3.15 Trapezoidal Imaging 3.16 One-key auto optimization 

4. **Multiple frequency of different probes：**
Convex probe: 2.5MHz/3.0MHz/3.5MHz/4.0MHz/H4.0MHz/H5.0MHz, (depth 30-255mm) Linear probe: 6.0MHz/7.5MHz/8.5MHz/10.0MHz/H10.0MHz, (depth 20-128mm) Trans-vaginal probe: 4.5MHz/6.0MHz/7.0MHz/9.0MHz/H8.0MHz, (depth 30-156mm) Phased array probe: 2.5MHz/3.0MHz/3.5MHz/4.0MHz/H3.0MHz/H4.0MHz, (depth 100-244mm) 4D Volume probe: 2.0MHz/3.0MHz/4.5MHz/6.0MHz/H5.0MHz, (depth 30-237mm) Micro convex probe (R15): 4.0MHz/6.0MHz/7.0MHz/8.0MHz/H8.0Mhz, (depth 30-111mm)
5. **2D mode**
5.1 Gain: 0－100, single step 1, visible and adjustable 5.2 TGC: 8 segment adjustable 5.3 Dynamic range: 20-280dB, 20 levels visible and adjustable 5.4 Pseudo color: 12 kinds, visible and adjustable 5.5 Sound power: 5%－100%, single step 5%, visible and adjustable 5.6 Body mark: 6 kinds 5.7 Number of focus: max 6 5.8 Gray Scale: 0-7, visible and adjustable 5.9 Filtering: 0-4 5.10 Scanning range: 50%-100% 5.11 Frame related: 0-4, visible and adjustable 5.12 Real-time display of 14 parameters such as sound power, probe frequency, dynamic range, pseudo color, gray scale, etc., which are adjustable 5.13 Scanning line density: high, medium and low adjustable 5.14 Noise reduction: 0-14 5.15 Pseudo-color spectrum: 0-11 5.16 Support frequency compound
6. **Color Imaging Mode:**
6.1 Color deflection: available 6.2 Color frame related: 0-12 levels, visible and adjustable 6.3 Color map: 0-3 levels, visible and adjustable

6.4 Color flip: adjustable 6.5 B/C split screen synchronous display function: available 6.6 Color baseline: 11 levels, visible and adjustable 6.7 Color line density: high and low adjustable 6.8 Wall filter: 0-5 level adjustable
7. **Pulse Wave Doppler Mode**
7.1 Sampling volume angle correction: -80°～80° adjustable 7.2 Sampling volume: 0.5mm-20mm visible and adjustable 7.3 Frequency: 2.5MHz and 3.0MHz visible and adjustable 7.4 Baseline: 11 levels adjustable 7.5 Pseudo-color spectrum: 0-5 7.6 Display layout: 4 kinds, visible and adjustable 7.7 Pseudo-color: 6 kinds adjustable *7.8 Speed scale: 3-2288cm/s 7.9 Spectrum envelope function: real-time automatic spectrum envelope, manual spectrum envelope and other modes are available, the system automatically analyzes and displays: PSV, EDV, RI, PI, S/D, ACC, HR and other data 7.10 Grayscale: 0-7 7.11 Wall filter: 0-12 7.12 Dynamic range: 10-95dB, single step 5 7.13 Noise reduction: 0-60 7.14 Volume: 0-100
8. **Real time 3D Imaging Mode**
8.1 Fast angle: support 0°, 90°, 180°, 270° rotation of the 3D window image 8.2 Display layout: support "double frame", "four frame", "single frame" image display 8.3 Reconstruction modes: RealSkin, surface, Max, Min, XRax five reconstruction modes 8.4 Pseudo-color display: support 0-7 level adjustment 8.5 Image magnification: support 5 levels 8.6 Contrast: 0%-100%

8.7 Threshold: 0%-100% 8.8 Smooth: 3 levels adjustable 8.9 Pseudo-color: 7 levels adjustable 8.10 X-axis, Y-axis, and Z-axis rotation support adjustable 8.11 Brightness: 0%-100%
9. **4D Imaging Mode**
9.1 Fast angle: support 0°, 90°, 180°, 270° rotation of the 3D window image 9.2 Display layout: support "double frame", "four frame", "single frame" image display 9.3 Reconstruction modes: RealSkin, surface, Max, Min, XRax five reconstruction modes 9.4 Pseudo-color display: 0-7 levels adjustable 9.5 Image magnification: 5 levels 9.6 Contrast: 0%-100% 9.7 Threshold: 0%-100% 9.8 Smooth: 3 levels adjustable 9.9 Pseudo-color:7 levels adjustable 9.10 X-axis, Y-axis, and Z-axis rotation adjustable 9.11 Line density: 2 levels adjustable
10. **Measurement and analysis functions:**
10.1 General measurement of distance, area, angle, time, slope, heart rate, speed, acceleration, neck transparent layer, spectrum trace, resistance index/pulsation index, etc. 10.2 Obstetric measurement: weight measurement formula: 13 kinds for option 10.3 The color and type of the measuring line can be adjusted(including the activation color and the completion color) 10.4 The display position and font size of the measurement results can be adjusted 10.5 Measurement packages: abdomen, obstetrics, urology, etc.
11. **Picture and text management system: Picture saving format: BMP/DICOM/JPEG as default**
11.1 Built-in 256GB SSD to start fast and stable 11.2 Cine loop: 600 frames 11.3 Built-in file information management system: with record number, name, inspection number, inspection

date, etc., and can search and manage by number, inspection number, name, etc. 11.4 Report types: 17 kinds 11.5 One-key quick report graphic management
12. Interfaces 4*USB ports, 1*Video, 1*S-Video, 1*DVI, 1*HDMI, 1*RJ-45
13 Configurations: 13.1 Color Ultrasonic Diagnostic Apparatus host *1 set 13.2 Probe options: Convex probe linear probe Micro-convex probe R15 Phased array probe Trans-vaginal probe 4D volume probe 13.3 Optional accessories: Thermal printer, puncture guide frame, gel warmer etc. 13.4 Standard warranty period: 2 years, including machine and probes 13.5 Life-long maintenance after the expiration of the warranty period, and free upgrade and maintenance of the workstation software involved