



Specifications for P25 Elite Digital Color Doppler Ultrasound System

901-21535-A01

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1 General Specifications

1.1 Applications

- Abdomen
- Cardiology
- OB/Gynecology
- Musculoskeletal
- Vascular
- Small Parts
- Urology
- Pediatrics
- TCD
- Breast
- Intraoperative

1.2 Probe Types

- Convex array probe
- Linear array probe
- Phased array probe
- Volume probe
- Pencil probe
- Biplane probe

1.3 Imaging Modes

- B
- THI/PHI
- M
- Anatomical M
- Color M
- CFM
- PDI/DPDI
- PW
- CW
- TDI
- TDI+PW
- TDI+M

1.4 Features

- 5-band adjustable frequency in B mode (fundamental wave and harmonic wave)
- μ -Scan
- HQ Scan
- Compound Imaging
- Widescan
- LGC (8-band)

- Tissue Specific Index
- Image Rotation
- Trapezoid Imaging
- SR Flow (High Resolution Flow)
- HPRF (High Pulse Repetition Frequency)
- Simultaneous Mode (Triplex)
- PW Auto Trace
- Auto IMT
- Auto NT
- Auto EF
- Auto Bladder
- S-Follicle
- S-Endo
- Auto OB plus
- Scr-Zoom
- HD-Zoom
- B Mode Panoramic Imaging
- Color Panoramic Imaging
- Biopsy Guide
- Vis-Needle
- Freehand 3D
- C-xlasto
- ECG
- TDI (Tissue Doppler Imaging with Quantitative Analysis)
- Remote Upgrade
- Sono Assistant
- Sono-Drop
- Show Gallery
- Sono-Help
- Sono-Synch

Optional Features

- 3D/4D module
- Micro F (Slow Flow Imaging of Microvascularized Structures)
- Bright Flow (Three-dimensional Visualization of Blood Flow)
- S-Live & S-Live Silhouette
- S-Live Contour
- S-Depth
- Auto Face
- VCI
- FreeVue
- AVC Follicle
- Color 3D

- STIC
- Contrast Imaging (MFI, MFI Time, TIC Analysis)
- ABD Contrast
- SMP Contrast
- GYN Contrast
- Stress Echo
- G-MQA
- R-MQA

1.5 Languages

- Software: English, Simplified Chinese, Spanish, Russian, French, Italian, German, Norwegian, Portuguese, Japanese, Dutch, Polish and Czech
- Keyboard Input: English, Simplified Chinese, Latin, French and Polish
- Control panel membrane: Control panel membrane marked in Chinese, Control panel membrane marked in Russian, Waterproof keyboard protector
- User manual: English and Simplified Chinese

2 Physical Specifications

2.1 Dimensions and Weight

- Width:
 - with 21.5-inch monitor: 526 ± 10 mm
 - with 23.8-inch monitor: 567 ± 10 mm
- Depth: approx. 751 ± 10 mm
- Height:
 - with 21.5-inch monitor
 - Maximum: 1680 ± 10 mm
 - Minimum: 1360 ± 10 mm
 - with 23.8-inch monitor
 - Maximum: 1745 ± 10 mm
 - Minimum: 1415 ± 10 mm
- Weight: approx. 81 ± 3 Kg

2.2 Monitor

- Monitor:
 - 21.5-inch medical high resolution monitor or
 - 23.8-inch medical high resolution monitor
- Resolution: 1920×1080

- Viewing angle: 178° (horizontal), 178° (vertical)
- Swivel angle: $\pm 45^\circ$ (21.5-inch monitor); $\pm 40^\circ$ (23.8-inch monitor);
- Up/down angle: -90° to 25° (21.5-inch monitor); -45° to 45° (23.8-inch monitor)
- Contrast and brightness: 0 - 100 adjustable
- Multi-directional articulating monitor arm
 - Upper swivel arm can be rotated left and right, relative to lower swivel arm. Rotation angle: $\geq 100^\circ$

2.3 Touch Screen

- 13.3-inch medical high resolution monitor
- Resolution ratio: 1920×1080
- Viewing angle: 160° (left/right), 160° (up/down)
- Adjustable inclination angle range: $\geq 10^\circ$
- Brightness and contrast: adjustable
- Available to touch with latex gloves
- User-defined parameter preset layout
- Anti-glare and anti-fingerprints

2.4 Control Panel

- User-oriented design
- Backlight design
- Multiple user-defined keys
- TGC: 8 levels slider controls
- Trackball sensitivity: adjustable
- Independent rotation and lifting of control panel
- Swivel angle (left/right): -40° to 40° (from center)
- Adjustable height range: 0 to 220 ± 10 mm
- Full-sized backlit keyboard

2.5 Speaker

Hi-Fi Speaker

2.6 Caster

- Diameter: 5 inches
- Specification: all the 4 casters can be independently locked

2.7 Probe Port and Probe Holder

- Probe ports: 5

- Pencil probe port: 1
- Probe holder: 4
- Gel holder: 2
- Cable hanger: 2
- Cable holder: 2

2.8 Power

- 100-127~ or 220-240V~
- Frequency: 50/60Hz
- Maximum power output: 500VA
- Built-in single battery: charging time $\leq$ 9h; power supply serving time $>$ 40min
- Built-in double batteries: charging time $\leq$ 9h; power supply serving time $>$ 1.5h
- System boot-up time: approx. $\leq$ 85 s
- System shutdown time: approx. $\leq$ 32 s

2.9 Operation Environment

- Temperature: 10 °C to 40 °C
- Relative humidity: 30% - 75%RH (no condensation)
- Atmospheric pressure: 700hPa - 1060hPa
- System noise: $\leq$ 55dB

2.10 Storage and Transportation Environment

- Temperature: -20 °C to +55 °C
- Relative humidity: 20% - 90% (no condensation)
- Atmospheric pressure: 700hPa - 1060hPa

3 Annotation and Body Mark

- All exam applications included
- Annotation: text annotation and arrow annotation
- Manual text annotation by touch screen
- Front size of text annotation: adjustable
- Initial position: user-defined
- Preset text annotation
- Arrow direction: adjustable
- Body marks: $\geq$ 142, selectable
- Body marks classified by specific exam types, and position adjustable
- Preset customization

4 Monitor Information

- Manufacturer logo

- Hospital name
- System date and time
- Probe and exam item
- MI and TI (TIB/TIC/TIS)
- Operator
- Patient ID, name, date of birth, gender and age
- Tissue temperature display (specified probe)
- Depth scale and focus position
- Image parameters
- Thumbnail image
- Clipboard

5 Image Parameter

5.1 Overview

- Grayscale: 256 levels
- Transducer element: up to 256
- Audio: 0 - 100 levels adjustable

5.2 B Mode

- Gain: 0 - 255 adjustable
- Scan depth: $\geq$ 40cm
- Compound imaging: off, 1, 2, 3 adjustable (e.g. 3C-A)
- HQ Scan: off, 1, 2, 3, 4 adjustable
- Frequency: 5 bands adjustable (fundamental wave: 5 bands; harmonic wave: 5 bands)
- Chroma: 1-13, 13 types selectable
- Adapt fusion imaging: 0-15, 16 types selectable
- μ -Scan: off, 1-8, 9 levels adjustable (e.g. 3C-A, different levels for different probes)
- Line density: 4 levels adjustable (Low/Medium/High/Highest)
- Persist: 0 - 60 (e.g. 6V3)
- Focus number: 13 (e.g. C1-5, different focus number for different probes)
- Focus span: adjustable
- Dynamic range: 20 - 300 (e.g. C1-5)
- Gray map: 1 - 15, 15 types selectable
- Power%: 1 - 100, 100 levels adjustable
- NSI: 0-254, 255 levels selectable
- Tissue acoustic index: 1400 - 1700, 31 levels adjustable
- TGC: 8 levels slider controls

- LGC: 8 bands
- Image inversion: left/right, up/down, rotation
- Sector width: adjustable
- B steer: 3 levels adjustable (linear array probe)
- Widescan: off, 1, 2
- Auto optimization: Gain, TGC and Dynamic range
- Maximum frame rate: 1571f/s (e.g. S1-5, Cardiac-P)

5.3 M Mode

- Gain: 0 - 255 adjustable
- Chroma: 1 - 5, 5 types selectable
- Display format: H1/2, H1/4, V1/3, V1/2, V2/3, O1/4
- Scan speed: Min, Slow, Medium, Fast, Max, 5 levels adjustable (e.g. Cardiac probe)
- Video invert: On/Off
- M process: Ave, Peak
- Power%: 30 - 100, 8 levels adjustable
- Gray map: 1 - 15, 15 levels adjustable
- Color M: CFM, TDI

5.4 Anatomical M Mode

- Display 3 sample lines simultaneously
- Angle and position of sample lines: adjustable

5.5 CFM Mode

- Gain: 0 - 255 adjustable
- Power%: 0 - 100, 11 levels adjustable
- B reject: 0 - 255, 256 levels adjustable
- Size and position of color ROI: adjustable
- Image inversion: up/down, left/right
- Bright flow: Off, 1, 2, 3
- Invert: On/Off
- Frequency: 5 bands adjustable
- Wall filter: 10 - 750 adjustable (e.g. 12L-A)
- PRF: 0.5 - 8kHz adjustable (e.g. 3C-A)
- Line density: Low, Medium, High, Highest adjustable
- Color map: 1-10, 10 types selectable
- Baseline: ± 15 , 31 levels adjustable

- Persist: 0 - 80 (e.g. 3C-A)
- ROI steer: 5 levels adjustable (linear array probes)
- ROI color: adjustable
- Auto optimization: ROI position and steer angle
- Dual live
- Maximum frame rate: 255f/s (S1-5, Cardiac)

5.6 PDI/DPDI Mode

- Power%: 0 - 100, 11 levels adjustable
- B reject: 0 - 255, 256 levels adjustable
- Persist: 0 - 80, 5 levels adjustable (e.g. 3C-A)
- Color map: 1 - 11, 11 types selectable
- Image inversion: up/down, left/right
- Bright flow: Off, 1, 2, 3
- Wall filter: 10 - 750 adjustable (e.g. 3C-A)

5.7 PW Mode

- Gain: 0 - 255 adjustable
- Display format: H1/2, H1/4, V1/3, V1/2, V2/3, O1/4
- Simultaneous mode (Triplex)
- PW sample volume: 0.5 - 24mm (e.g. 3C-A)
- PW sample position: adjustable
- Invert: On/Off
- Quick angle correction: 0°, 60° adjustable
- Angle correction range: 0 - 72° adjustable
- Steer angle: 5 levels adjustable (linear array probe)
- Auto trace: achievable in real-time mode and frozen mode
- Baseline: 17 levels adjustable
- Frequency: 5 levels adjustable
- Wall filter: 25 - 800 adjustable (e.g. 3C-A)
- PRF: 1 - 16kHz (e.g. 3C-A)
- HPRF
- Velocity range: 0-12m/s (e.g. 3C-A, PRF=16 kHz, $\theta=60^\circ$, frequency=2.0 MHz, the lowest baseline)
- Scan speed: Min, Slow, Medium, Fast, Max
- Chroma: 1 - 5, 5 types adjustable
- Dynamic range: 11 - 20, 10 levels adjustable (e.g. 3C-A)
- Auto Optimization: Baseline and PRF

5.8 SR Flow

- Gain: 0 - 255 adjustable
- Power%: 0 - 100, 11 levels adjustable
- B reject: 0 - 255, 256 levels adjustable
- Size and position of color ROI: adjustable
- Image inversion: up/down, left/right
- Bright flow: Off, 1, 2, 3
- Frequency: 5 bands adjustable
- PRF: 0.5-8kHz adjustable (e.g. 3C-A)
- Line density: 4 levels adjustable (Low/Medium/High/Highest)
- Color map: 1-4, 4 types selectable
- Persist: 0 - 80 (e.g. 3C-A)
- ROI steer: 5 levels adjustable (linear array probes)
- ROI color: adjustable
- Auto optimization: ROI position and steer angle
- Dual live
- Wall filter: 15-750
- Maximum frame rate: 255f/s

5.9 CW Mode

- Gain: 0 - 255 adjustable
- Display format: H1/2, H1/4, V1/3, V1/2, V2/3, O1/4
- CW sample position: adjustable
- Invert: On/Off
- Angle correction range: 0 - 72 °
- Auto trace: achievable in real-time mode and frozen mode
- Baseline: 17 levels adjustable
- Wall filter: 25 - 800 levels adjustable
- PRF: 1 – 48kHz (e.g. S1-5)
- Velocity range: 0 - 40m/s (S1-5, PRF=48kHz, $\theta=60^\circ$, frequency=1.8 MHz, the lowest baseline)
- Scan speed: Min, Slow, Medium, Fast, Max
- Chroma: 1 - 5, 5 types adjustable
- Dynamic range: 21-34, 14 levels adjustable

5.10 TDI Mode

- Tissue speed imaging and tissue power

imaging

- Power%: 0 - 100, 11 levels adjustable
- B reject: 0 - 255, 256 levels adjustable
- Persist: 0 - 50, 5 levels adjustable (e.g. S1-5)
- Color map: 1 - 14 adjustable
- Image inversion: up, down, left, right
- Invert: On/Off
- Wall filter: 25 - 800 adjustable (e.g. S1-5)

5.11 TDI+PW Mode

- PRF: 1.0 - 3.0 kHz (e.g. S1-5)
- Velocity range: 0 - 2m/s (S1-5, PRF=3kHz, $\theta=72^\circ$, SVD=0.1cm, the lowest baseline)

5.12 TDI+M Mode

- Gain: 0 - 255 adjustable
- Chroma: 1 - 5, 5 types selectable
- Display format: H1/2, H1/4, V1/3, V1/2, V2/3, O1/4
- Scan speed: Min, Slow, Medium
- M process: Ave, Peak
- Power%: 30 - 100, 8 levels adjustable

6 Advanced Features

6.1 Micro F

- Dual live
- Hide flow in frozen mode
- Image inversion: up/down, left/right
- Smooth: Off, 1, 2, 3, 4
- Bright flow: Off, 1, 2, 3
- Biopsy and biopsy calibration: available

6.2 Widescan Imaging

- Widescan: off, 1, 2 (linear array probe and convex array probe)

6.3 Zoom

- Zoom ratio: 0.7 - 10.0
- Scr-Zoom (one key full screen zoom)
- Pan-Zoom
- HD zoom

6.4 Customized Preset

- Customizable preset: user-defined parameters for different probes and exam types

- Preset order: adjustable
- Import or export presets
- Delete presets
- Overwrite presets

6.5 Freehand 3D

- Scan method: sector scan, parallel scan
- Display format: Single display, Dual-split display, Quad-split display
- Slice: A, B, C, 3D
- Rotate image along X, Y or Z axis
- Up/Down: move the image up/down
- Left/Right: move the image left/right
- Direction: top, bottom, left, right, front, back
- 3D orientation: 0 °, 90 °, 180 °, 270 °
- Reset: default settings, sweep angle, viewing angle, direction
- Render mode: Surface, Grad. Light, Skeleton, Transp. Min, X-Ray, S-Depth, S-Live
- Auto rotation: 0 °, 45 °, 90 °, 180 °, 270 °, 360 °
- 3D Frame: On/Off
- Edit ROI: On/Off
- Adjust light: On/Off (S-Live)
- Trackball (Rotate highlighted): Rotate, Z Rotate
- Threshold: 0 - 100, 1 each step
- Contrast: 0 - 100, 1 each step
- Transparency: 0 - 100, 1 each step
- Brightness: 0 - 100, 1 each step
- Smoothness: 0 - 30, 1 each step
- Light position: 0 - 9, 1 each step
- B Chroma: 1 - 13, 1 each step
- 3D Chroma: Off, 1- 14 adjustable, 1 each step
- Z scale in parallel scan mode: 0.1 -2.0, 0.1 each step (range depends on number of scanning slices)
- Z axis angle in sector scan mode: 5 °- 170 °, 5 °each step
- Edit: trace, box, eraser
- Display (C-Plane): AB, AC, BC, ABC
- M-Slice
 - Display: 1*2, 2*2, 3*4, 3*3, 4*4, 5*5
 - Slice distance: 0.5 - 10.0 adjustable, 0.5

each step

-- Slice number: 3 - 29 adjustable, 2 each step

-- Single slice magnification

- AVC Follicle

6.6 Static 3D/4D

- Display format: Single display, Dual-split display, Quad-split display
- Slice: A, B, C, 3D
- Rotate image along X, Y or Z axis
- Up/Down: move the image up/down
- Left/Right: move the image left/right
- Direction: top, bottom, left, right, front, back
- 3D orientation: 0 °, 90 °, 180 °, 270 °
- Reset: default settings, sweep angle, viewing angle, direction
- Render mode: Surface, Grad. Light, Skeleton, Transp. Min, X-Ray, S-Depth, S-Live
- Auto rotation: 0 °, 45 °, 90 °, 180 °, 270 °, 360 °
- 3D Frame: On/Off
- Image quality: Low, Med1, Med2, High1, High2, Max
- Sweep angle: 10 °-120 ° (VE9-5) / 5 °-75 ° (VC6-2), 5 °each step
- Stability: On/Off
- Focus: can be moved and adjusted according to ROI
- Edit ROI: On/Off
- Auto Face: On/Off
- Adjust light: On/Off (S-Live)
- VolPre: user can return to pre-activated mode from activated mode
- Cine loop: different adjustment range for different size of volume data
- First frame: To first frame
- Last frame: To last frame
- Auto play: On/Off
- Set first frame: set the saved first frame
- Set last frame: set the saved last frame
- Frame by frame: select the current frame
- Cine speed: adjust the auto play speed
- Trackball (Rotate highlighted): Rotate, Z Rotate

- Threshold: 0 - 100, 1 each step
- Contrast: 0 - 100, 1 each step
- Transparency: 0 - 100, 1 each step
- Brightness: 0 - 100, 1 each step
- Smoothness: 0 - 30, 1 each step
- Light Position: 0 - 9, 1 each step (light position can also be set at any place by rotating the trackball)
- 3D Chroma: Off, 1 - 14 adjustable, 1 each step
- B Chroma: 1 - 13, 1 each step
- 2D μ -Scan: Off, 1-19, 20 levels adjustable
- 3D μ -Scan: Off, 1, 2, 3, 4, 5, 6 levels adjustable
- Edit: trace, box, eraser
- Display (C-Plane): AB, AC, BC, ABC
- M-Slice
 - Display: 1*2, 2*2, 3*4, 3*3, 4*4, 5*5
 - Slice distance: 0.5 - 10.0 adjustable, 0.5 each step
 - Slice number: 3 - 29 adjustable, 2 each step
 - Single slice magnification
- AVC Follicle
- Maximum frame rate: 36.0 f/s (VE9-5, 4D)
- Image quality: Low, Med1, Med2, High1, High2, Max
- Sweep angle: 10 ° - 120 °(VE9-5) / 5 ° - 75 ° (VC6-2), 5 °each step
- Edit ROI: On/Off
- Color off: On/Off, available only in Color and Glass render mode
- VolPre: user can return to pre-activated mode from activated mode
- Trackball (Rotate highlighted): Rotate, Z Rotate
- Color threshold: 0 - 127, 1 each step, adjustable only in Color and Glass render mode
- Color map: 1 - 10, 1 each step, adjustable only in Color and Glass render mode
- Gray/Color: 0%/100% - 100%/0%, 1% each step, adjustable only in Glass render mode
- Mix: 0%/100% - 100%/0%, 1% each step
- Threshold: 0 - 100, 1 each step, adjustable only in Glass and Gray render mode
- Contrast: 0 - 100, 1 each step, adjustable only in Glass and Gray render mode
- Transparency: 0 - 100, 1 each step
- Brightness: 0 - 100, 1 each step
- Smoothness: 0 - 30, 1 each step
- 3D Chroma: Off, 1-14 adjustable, 1 each step, adjustable only in Glass and Gray render mode
- B Chroma: 1 - 13, 1 each step
- Edit: trace, box, eraser
- Cut part: Color, Gray + Color, Gray, adjustable only in Glass render mode
- Display (C-Plane): AB, AC, BC, ABC
- M-Slice
 - Display: 1*2, 2*2, 3*4, 3*3, 4*4, 5*5
 - Slice distance: 0.5 - 10.0 adjustable, 0.5 each step
 - Slice number: 3 - 29 adjustable, 2 each step
 - Single slice magnification
- STIC CFM

6.7 CFM 3D

- Display format: Single display, Dual-split display, Quad-split display
- Slice: A, B, C, 3D
- Rotate image along X, Y or Z axis
- Up/Down: move the image up/down
- Left/Right: move the image left/right
- Direction: top, bottom, left, right, front, back
- 3D orientation: 0 °, 90 °, 180 °, 270 °
- Reset: default settings, sweep angle, viewing angle, direction
- Render mode (three types).
 - Color render mode: Surface, X-ray, MIP, Grad. Light
 - Glass render mode: Surface + Surface, Surface + MIP
 - Gray render mode: Surface, Grad. Light
- Auto rotation: 0 °, 45 °, 90 °, 180 °, 270 °, 360 °
- 3D Frame: On/Off

- Display format: Single display, Dual-split

6.8 PDI 3D

- Display format: Single display, Dual-split

- display, Quad-split display
- Slice: A, B, C, 3D
- Rotate image along X, Y or Z axis
- Up/Down: move the image up/down
- Left/Right: move the image left/right
- Direction: top, bottom, left, right, front, back
- 3D orientation: 0 °, 90 °, 180 °, 270 °
- Reset: default settings, sweep angle, viewing angle, direction
- Render mode (three types)
 - Color render mode: Surface, Grad. Light
 - Glass render mode: Surface + Surface, Surface + MIP
 - Gray render mode: Surface, Grad. Light
- Auto rotation: 0 °, 45 °, 90 °, 180 °, 270 °, 360 °
- 3D Frame: On/Off
- Image quality: Low, Med1, Med2, High1, High2, Max
- Sweep angle: 10 ° - 120 °(VE9-5) / 5 ° - 75 ° (VC6-2), 5 ° each step
- Edit ROI: On/Off
- Color off: On/Off, adjustable only in Color and Glass render mode
- VolPre: pre-activate return available
- Trackball (Rotate highlighted): Rotate, Z Rotate
- Color threshold: 0 - 255, 1 each step, adjustable only in Color and Glass render mode
- Color map: 1 - 7, 1 each step, adjustable only in PDI 3D and Glass render mode
- Gray/Color: 0%/100% - 100%/0%, 1% each step, adjustable only in Glass render mode
- Mix: 0%/100% - 100%/0%, 1% each step
- Threshold: 0 - 100, 1 each step, adjustable only in Glass and Gray render mode
- Contrast: 0 - 100, 1 each step, adjustable only in Glass and Gray render mode
- Transparency: 0 - 100, 1 each step
- Brightness: 0 - 100, 1 each step
- Smoothness: 0 - 30, 1 each step
- 3D Chroma: Off, 1 - 14 adjustable, 1 each step, adjustable only in Glass and Gray render mode

- B Chroma: 1 - 13, 1 each step
- Edit: trace, box, eraser
- Cut part: Color, Gray + Color, Gray, adjustable only in Glass render mode
- Display (C-Plane): AB, AC, BC, ABC
- M-Slice
 - Display: 1*2, 2*2, 3*4, 3*3, 4*4, 5*5
 - Slice distance: 0.5 - 10.0 adjustable, 0.5 each step
 - Slice number: 3 - 29 adjustable, 2 each step
 - Single slice magnification
- STIC PDI

6.9 SR Flow 3D

- Display format: Single display, Dual-split display, Quad-split display
- Slice: A, B, C, 3D
- Rotate image along X, Y or Z axis
- Up/Down: move the image up/down
- Left/Right: move the image left/right
- Direction: top, bottom, left, right, front, back
- 3D orientation: 0 °, 90 °, 180 °, 270 °
- Reset: default settings, sweep angle, viewing angle, direction
- Render mode (three types)
 - Color render mode: Surface, X-ray, MIP, Grad. Light
 - Glass render mode: Surface + Surface, Surface + MIP
 - Gray render mode: Surface, Grad. Light
- Auto rotation: 0 °, 45 °, 90 °, 180 °, 270 °, 360 °
- 3D Frame: On/Off
- Image quality: Low, Med1, Med2, High1, High2, Max
- Sweep angle: 10 ° - 120 °(VE9-5) / 5 ° - 75 ° (VC6-2), 5 ° each step
- Edit ROI: On/Off
- Color off: On/Off, available only in Color and Glass render mode
- VolPre: user can return to pre-activated mode from activated mode
- Trackball (Rotate highlighted): Rotate, Z Rotate
- Color threshold: 0 - 127, 1 each step,

- adjustable only in Color and Glass render mode
- Color map: 1 - 4 (VE9-5), 1 - 7 (VC6-2), 1 each step, adjustable only in Color and Glass render mode
- Gray/Color: 0%/100% - 100%/0%, 1% each step, adjustable only in Glass render mode
- Mix: 0%/100% - 100%/0%, 1% each step
- B-mode threshold: 0 - 100, 1 each step, adjustable only in Glass and Gray render mode
- Contrast: 0 - 100, 1 each step, adjustable only in Glass and Gray render mode
- Transparency: 0 - 100, 1 each step
- Brightness: 0 - 100, 1 each step
- Smoothness: 0 - 30, 1 each step
- 3D Chroma: Off, 1 - 14 adjustable, 1 each step, adjustable only in Glass and Gray render mode
- B Chroma: 1 - 13, 1 each step
- Edit: trace, box, eraser
- Cut part: Color, Gray + Color, Gray, adjustable only in Glass render mode
- Display (C-Plane): AB, AC, BC, ABC
- M-Slice
 - Display: 1*2, 2*2, 3*4, 3*3, 4*4, 5*5
 - Slice distance: 0.5 - 10.0 adjustable, 0.5 each step
 - Slice number: 3 - 29 adjustable, 2 each step
 - Single slice magnification
- STIC SR Flow

6.10 STIC

- Display format: Single display, Dual-split display, Quad-split display
- Slice: A, B, C, 3D
- Rotate image along X, Y or Z axis
- Up/Down: move the image up/down
- Left/Right: move the image left/right
- Direction: top, bottom, left, right, front, back
- 3D orientation: 0 °, 90 °, 180 °, 270 °
- Reset: default settings, sweep angle,

viewing angle, direction

- Render mode: Surface, Grad. Light, Skeleton, Transp. Min, X-Ray, S-Depth, S-Live
- Auto rotation: 0 °, 45 °, 90 °, 180 °, 270 °, 360 °
- 3D Frame: On/Off
- Scan time: 7.5s, 10s, 12.5s, 15s, 2.5s each step
- Sweep angle: 10 ° - 90 ° (VE9-5) / 15 ° - 60 ° (VC6-2), 5 ° each step
- Edit ROI: On/Off
- Adjust light: On/Off (S-Live)
- Cine loop: different adjustment range for different size of volume data
- Auto play: On/Off
- Frame by frame: select the current frame
- Cine speed: adjust the auto play speed
- Trackball (Rotate highlighted): Rotate, Z Rotate
- Threshold: 0 - 100, 1 each step
- Contrast: 0 - 100, 1 each step
- Transparency: 0 - 100, 1 each step
- Brightness: 0 - 100, 1 each step
- Smoothness: 0 - 30, 1 each step
- Light position: 0 - 9, 1 each step
- 3D Chroma: Off, 1 - 14 adjustable, 1 each step
- B Chroma: 1 - 13, 1 each step
- 2D μ -Scan: Off, 1-19, 20 levels adjustable
- 3D μ -Scan: Off, 1, 2, 3, 4, 5, 6 levels adjustable
- Edit: trace, box, eraser
- Display (C-Plane): AB, AC, BC, ABC
- M-Slice
 - Display: 1*2, 2*2, 3*4, 3*3, 4*4, 5*5
 - Slice distance: 0.5 - 10.0 adjustable, 0.5 each step
 - Slice number: 3 - 29 adjustable, 2 each step
 - Single slice magnification

6.11 FreeVue

- Line type: Line, Curve, Poly Line, Trace
- Line number: One, Two, Three
- View mode: Actual View, Project View
- Viewing direction: Left, right, top, bottom

- ICON switch: control the display of image marks
- View Rot: control the rotation of icon
- Contrast 3D/4D

6.12 Volume Contrast Imaging

- VCI: On/Off
- Render mode: Surface, X-Ray, Skeleton, Transp.Min, S-Depth
- Thickness: 1mm - 20mm, 1 each step
- Threshold: 0 - 100, 1 each step, adjustable only in Surface and S-Depth render modes
- Contrast: 0 - 100, 1 each step
- Transparency: 0 - 100, 1 each step
- Brightness: 0 - 100, 1 each step
- 2D μ -Scan: Off, 1-19, 20 levels adjustable
- 3D Chroma: Off, 1-14, 15 levels adjustable, 1 each step
- 3D GSC: 1-15 adjustable, 1 each step
- Reconstruction direction: acquire the VCI volume data from the inside or outside of the line (adjustable only in FreeVue)

6.13 Panoramic Imaging

- B mode panoramic imaging
- Color panoramic imaging (CFM/PDI), only available on linear array probe
- Rotation: -180 °to 180 °
- Zoom: 8.0 times
- Maximum available length: 1000mm
- Chroma: 1-13
- Gray map: 1 - 15
- Image scale: On/Off
- Full view

6.14 Biopsy Guide Function

- Biopsy line angle: adjustable
- Biopsy line dot size: adjustable
- Biopsy depth: adjustable
- Biopsy line angle calibration
- Biopsy line offset calibration
- Biopsy line calibration parameter storage and load default
- User-defined biopsy line angle

6.15 Vis-Needle

- Steer angle:
 - Left: 20 ° to 50 °, 5 ° each step, 7 levels adjustable
 - Right: -20 ° to -50 °, 5 ° each step, 7 levels adjustable
- Direction: left and right, 2 levels adjustable
- Dual-split display

6.16 C-xlasto (Compression Elastography)

- Image inversion: up/down, left/right
- Display format: Single display and Dual-split display
- Map display: independent adjustment of left and right map
- Depth adjustment
- B image parameters: adjustable
- TGC: adjustable
- User-defined preset of C-xlasto: available
- Strain map left: 1 - 7, 1 each step
- Strain map right: 0 - 7, 1 each step
- Frequency: 5 levels adjustable
- Strain process: 0 - 6, 7 levels available
- Contrast: 0.02 - 2.00, 0.01 each step
- Transparency: 0.10 - 1.00, 0.02 each step
- Persist: 0.02 - 0.98, 0.02 each step

6.17 Contrast Imaging

- Real-time retrospective storage and prospective storage
- Display format: Single (B), Dual (2B)
- Image inversion: up/down, left/right
- Biopsy and biopsy calibration: available
- Two timers
- Flash power%: 1 - 100, 1 each step
- Flash time: 0.1s - 10.0s, 0.1s - 15.0s (VE9-5)
- Dynamic range: 20 - 280, 14 levels adjustable
- Power: 1% - 100%, 100 levels adjustable
- Gray map: 1 - 15, 15 types adjustable
- Chroma: 1 - 15, 15 types adjustable
- μ -Scan: off, 1 - 5, 6 levels adjustable
- Persist: 0 - 60, 7 levels adjustable

- Sector width: adjustable
- TIC quantitative analysis
 - Time Intensity Curve (TIC) analysis
 - ROI outline: Trace/Ellipse
 - Trace: can be deleted and cleared
 - Parameter display: available
 - Max. ROI: 8
 - Four compound curves: Bolus WIWO, General, Wash In, Wash Out
 - Compound curve: can be hidden
 - Cine speed: 7 levels adjustable
- Contrast agent parameter switching: available
- ABD Contrast
- SMP Contrast
- GYN Contrast
- MFI
- MFI Time
- Mix Mode

6.18 Stress Echo

- Protocol: user-defined or selectable
- Acquisition of cardiac sections in different stress levels in terms of selected protocol for advanced and flexible stress echo examination
- Available on phased array probe, under Cardiac preset
- Provides exercise and pharmacological protocol templates
- Continuous acquisition of sections in the template
- Acquired sections selectable for the exam
- Supports comparison among the acquired sections
- Wall motion scoring (bull's eye) and reporting

6.19 G-MQA

- Section type: A2C/A3C/A4C/PLAX/PSAX A/PSAX M/PSAX B
- Trace point: editable
- Motion direction:
 - Long axis: Longitudinal, Radial
 - Short axis: Radial, Rotation, Circumference

- Multiple curve types: Strain, Strain Rate, Velocity, Displacement, Volume
- Bull's eye display
- Peak time display
- Cardiac valve open-close time indication
- Time measurement

6.20 R-MQA

- User-defined trace
- Able to delete trace line
- Max. ROI: 20
- Four curve types: Strain, Strain Rate, Velocity, Displacement
- Peak time display
- Cardiac valve open-close time indication
- Time measurement

6.21 Sono-Help

- Applications: Liver, Kidney, Spleen, Biliary system, Uterine adnexa, Obstetrics, Cardiac, Artery and Vein, Thyroid, Breast, Prostate and testicle
- Available for 82 standard scan planes
- Available for probe position, anatomic diagram and ultrasound reference image display
- User-defined key: available

6.22 Sono Assistant

- Available in vascular and obstetrics applications
- Auto workflow protocol
- Templates are user-configurable
- Provides reference sections for carotid, LEA, LEV(DVT) and LEV(Reflux) in vascular
- Provides reference sections for early pregnancy, NT, level I, level II and level III screening in obstetrics
- Ultrasound image display of the standard plane for reference
- Displays unfinished scanning sections in the exam
- Supports imaging mode: B/B+Color/B+PW/B+Color+PW/B+CW/B+Color+CW/B+M/B+Color+M

6.23 Sono-Drop

- On-site wireless image transmission
- An interactive app that lets you transfer clinical image from SonoScape ultrasound system to a smart device
- Communication should be established by scanning the encrypted QR code.
- Transfer images or clips from system to mobile terminal through WiFi

6.24 Sono-Synch

- Synchronize main screen images, real-time camera images, audios remotely
- Synchronize multiple devices simultaneously

7 Measurement/Analysis and Report

7.1 Measurement Settings

- BSA setting: Eastern, Western
- Cross cursor size: Small, Medium, Large
- Measure line size: Small, Medium, Large
- Distance dash line display: On/Off
- Velocity cross line display: On/Off
- Ellipse cross line display: On/Off
- M mode cross line display: On/Off
- Volume flow method: TAm_{mean}, TAm_{ax}
- Volume flow compensation with TAm_{ax}: 0.5, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00
- Line ID display: On/Off
- Keep result window: On/Off
- Result font size: Small, Medium, Large
- Result font color: White, Yellow
- Result position: Top Right, Top Left, Bottom Left and Bottom Right adjustable in 2D or M+D mode

7.2 Basic Measurement Package

- Obstetrics measurement package
- Small parts measurement package
- Gynecology measurement package
- Vascular measurement package
- Abdominal measurement package

- Cardiac measurement package
- Urology measurement package
- Pediatrics measurement package

7.3 Report

- Application-specific measurement report
 - ✓ Fetal growth curves
 - ✓ Fetus anatomy evaluation
 - ✓ Fetus compare (four fetuses)
 - ✓ Gynecological pelvic floor report
 - ✓ IOTA
 - ✓ Follicle curve
 - ✓ Gynecological anatomy evaluation
 - ✓ BI-RADS
 - ✓ TI-RADS
 - ✓ Stress echo test and bull's eye
- Measurement values: editable
- Measurement results process method: selectable
- Image Insertion
- Report preview
- Comment edit: available
- DICOM send: available
- Report logo (170x60Pixel, bmp): replaceable
- Font size and color settings
- Background color settings
- Display item settings
- Export format: PDF, TXT, RTF, HTML

7.4 S-Endo/S-Follicle

- S-Endo: Auto endometrium recognition and measurement
- S-Follicle: Auto 2D follicle recognition and measurement

7.5 Auto Measurement

- Auto IMT
- Auto OB Plus (AC/HC/HL/FL/BPD/Cereb./CTAR/CTD R/Cardiac axis/AFI/PL)
- Auto NT
- Auto Bladder Volume Measurement
- Auto EF
- S-Follicle
- AVC Follicle

- S-Endo

8 Storage and Data Management

8.1 Storage

- Hard disc storage: 1T
- 2D cine storage time setting:
 - ✓ Prospective storage: 1 - 600s
 - ✓ Retrospective storage: 1 - 20s
 - ✓ Freeze storage: 1 - 120s
- 4D cine storage time setting:
 - ✓ Prospective storage: 1 - 600s
 - ✓ Retrospective storage: 1 - 50s
- Directly store to USB drive
- Prospective storage for contrast imaging

8.2 Data Management

- Image, video and report sharing service (Samba)
- Export data to USB drive or DVD
- Export format:
 - ✓ System format
 - ✓ PC format
 - ✓ Image format: BMP, JPG, TIF
 - ✓ Cine format: AVI, WMV, MP4
 - ✓ Report format: PDF, TXT, HTML, RTF
 - ✓ DICOM format
 - ✓ DICOMDIR format
- Clipboard: thumbnail display, delete, export
- Create exam, activate exam, resume suspended exam
- Query/Retrieve service
- Review current exam and history exam
- Post-processing and post-measurement
- Backstage storage: quick switch of DICOM cine

8.3 Cine Review

- Cine review: frame by frame manual play and auto play with adjustable speed
- One keystroke reviews the first frame or last frame
- Auto play: can be activated/inactivated by using trackball

9 Connectivity

9.1 I/O Port

- USB port:
 - ✓ USB 3.0: 2
 - ✓ USB 2.0: 4 (one USB port for engineering update)
- Video output port: 8
 - ✓ VGA
 - ✓ RGB
 - ✓ S-VIDEO OUT
 - ✓ S-VIDEO IN
 - ✓ VIDEO OUT
 - ✓ VIDEO IN
 - ✓ DVI OUT
 - ✓ HDMI OUT
- Audio input/output port:
 - ✓ AUDIO IN
 - ✓ AUDIO OUT
- Foot switch input: 1
- Ethernet port: 1
- Video print port: 1
- Physiological signal input port: 1

9.2 Video Output Settings

- VIDEO/S-VIDEO (TV-NTSC, TV-PAL)
- VGA/RGB (4:3)
- VGA/RGB (16:9)
- HDMI/DVI (4:3)
- HDMI/DVI (16:9)

9.3 Network Connection

- Local network
 - ✓ Local network: On/Off
 - ✓ DHCP or static IP
 - ✓ Static IP: IP, netmask and default gateway settings
 - ✓ MAC address check
 - ✓ Advance: speed (10M, 100M, 1000M, UnKnown!), duplex (Semi Duplex, Full Duplex, UnKnown!)
 - ✓ Speed and duplex search and settings
 - ✓ Ping IP Address
- Wireless network
 - ✓ Wireless network: On/Off
 - ✓ Authentication method: Open, WEP,

- WPA/WPA2-PSK, WPA-EAP
- ✓ DHCP or static IP
- ✓ Static IP: IP, netmask and default gateway settings
- ✓ MAC address check
- ✓ WIFI connection, disconnection, refresh, advanced configuration and network adding
- ✓ Ultrasound hotspot
- ✓ Switch between ultrasound hotspot and WIFI

9.4 DICOM 3.0

- DICOM storage
- DICOM structured report
 - ✓ Gynecology structured report
 - ✓ Obstetrics structured report
 - ✓ Cardiology structured report
 - ✓ Vascular structured report
- DICOM storage commitment
- DICOM Worklist
- DICOM MPPS
- DICOM print
- DICOM Q/R list

10 Probe

NOTE: For the following probes that support widescan, bilateral extension is also supported.

10.1 Convex Array Probe

- 3C-A
 - ✓ Application: Abdomen, OB/Gynecology
 - ✓ Frequency range: 1.0-7.0MHz
 - ✓ Central frequency: 3.2MHz
 - ✓ Curvature radius: 50mm
 - ✓ Transducer element: 128
 - ✓ Field of view: 60°
 - ✓ Widescan (unilateral, 2 levels adjustable): 14°/18°
 - ✓ Depth: ≥40cm
 - ✓ Acoustic lens: 60mm×18mm
 - ✓ Biopsy bracket: NGB3C-A, 12°/16.5°/22.5°/33.5°, sterilizable
- C1-5
 - ✓ Application: Abdomen, OB/Gynecology
 - ✓ Frequency range: 1.0-8.0MHz

- ✓ Central frequency: 3.2MHz
- ✓ Curvature radius: 50mm
- ✓ Transducer element: 128
- ✓ Field of view: 60°
- ✓ Widescan (unilateral, 2 levels adjustable): 14°/18°
- ✓ Depth: ≥40cm
- ✓ Acoustic lens: 58mm×18mm
- ✓ Biopsy bracket: NGB1-5, 15°/25°/35°, sterilizable
- 6V3
 - ✓ Application: Gynecology, Urology
 - ✓ Frequency range: 3.0-15.0MHz
 - ✓ Central frequency: 6.0 MHz
 - ✓ Curvature radius: 10.3mm
 - ✓ Transducer element: 192
 - ✓ Field of view: 194°
 - ✓ Widescan (unilateral, 2 levels adjustable): 14°/18°
 - ✓ Depth: ≥16 cm
 - ✓ Acoustic lens: 41mm×10mm
 - ✓ Biopsy bracket: NGB6V3, 0°, sterilizable
 - ✓ Temperature control
- 6V7
 - ✓ Application: Gynecology, Urology
 - ✓ Frequency range: 3.0-15.0MHz
 - ✓ Central frequency: 5.7 MHz
 - ✓ Curvature radius: 10.3mm
 - ✓ Transducer element: 192
 - ✓ Field of view: 194°
 - ✓ Widescan (unilateral, 2 levels adjustable): 14°/18°
 - ✓ Depth: ≥16 cm
 - ✓ Acoustic lens: 41mm×10mm
 - ✓ Biopsy bracket: NGB6V7, 15°, sterilizable
 - ✓ Temperature control
- EC9-5
 - ✓ Application: Gynecology, Urology
 - ✓ Frequency range: 3.0-15.0MHz
 - ✓ Central frequency: 6MHz
 - ✓ Curvature radius: 8mm
 - ✓ Transducer element: 128

- ✓ Field of view: 147 °
- ✓ Widescan (unilateral, 2 levels adjustable): 14 °/18 °
- ✓ Depth: ≥16 cm
- ✓ Acoustic lens: 27mm×10mm
- ✓ Biopsy bracket: NGBEC9-5, 15 °, sterilizable
- ✓ Temperature control
- 6V3A
- ✓ Application: Gynecology, Urology
- ✓ Frequency range: 3.0-15.0MHz
- ✓ Central frequency: 6MHz
- ✓ Curvature radius: 8mm
- ✓ Transducer element: 128
- ✓ Field of view: 147 °
- ✓ Widescan (unilateral, 2 levels adjustable): 14 °/18 °
- ✓ Depth: ≥16cm
- ✓ Acoustic lens: 26mm×10mm
- C613
- ✓ Application: Abdomen, Cardiology, Pediatric Cardiology
- ✓ Frequency range: 4.0-13.0MHz
- ✓ Central frequency: 6.0 MHz
- ✓ Curvature radius: 14mm
- ✓ Transducer element: 128
- ✓ Field of view: 90 °
- ✓ Widescan (unilateral, 2 levels adjustable): 14 °/18 °
- ✓ Depth: ≥16 cm
- ✓ Acoustic lens: 30mm×10mm
- ✓ Biopsy bracket: NGBC613, 12 °/18 °/30 °, sterilizable
- C322
- ✓ Application: Abdomen
- ✓ Frequency range: 2.0-7.0MHz
- ✓ Central frequency: 3.5MHz
- ✓ Curvature radius: 20mm
- ✓ Transducer element: 128
- ✓ Field of view: 68 °
- ✓ Widescan (unilateral, 2 levels adjustable): 14 °/18 °
- ✓ Depth: ≥ 35cm
- ✓ Acoustic lens: 32mm×11mm

- ✓ Biopsy bracket: NGBC322, 5 °/25 °, sterilizable
- BCL10-5
- ✓ Application: Urology
- ✓ Frequency range: 4.0-16.0MHz
- ✓ Biopsy bracket: NGBBCL10-5, 90 °, biopsy depth (linear array): 10mm-50mm, sterilizable

Convex array:

- ✓ Central frequency: 6MHz
- ✓ Curvature radius: 10mm
- ✓ Transducer element: 192
- ✓ Field of view: 200 °
- ✓ Depth: ≥16cm
- ✓ Acoustic lens: 40mm×10mm

Linear array:

- ✓ Central frequency: 7.5MHz
- ✓ Transducer element: 192
- ✓ Width of view: 60mm
- ✓ Depth: ≥11cm
- ✓ Acoustic lens: 63mm×9mm

• BCC9-5

- ✓ Application: Urology
- ✓ Frequency range: 3.0-15.0MHz
- ✓ Biopsy bracket: NGBBCC9-5, 0 °, sterilizable

Convex array:

- ✓ Central frequency: 6MHz
- ✓ Curvature radius: 10mm
- ✓ Transducer element: 128
- ✓ Field of view: 140 °
- ✓ Depth: ≥16cm
- ✓ Acoustic lens: 26mm×10mm

10.2 Linear Array Probe

• 12L-A

- ✓ Application: Peripheral Vascular, Superficial, Small Parts
- ✓ Frequency range: 3.0-17.0MHz
- ✓ Central frequency: 8.0 MHz
- ✓ Transducer element: 256
- ✓ Width of view: 51mm
- ✓ Depth: ≥11cm
- ✓ B steer: 0 °/±10 °, 3 levels
- ✓ ROI steer/sample line steer: 0 °/±16 °/±20 °

- (some modes: $0^{\circ} \pm 12^{\circ} \pm 20^{\circ}$)
- ✓ Trapezoid imaging: (unilateral, 2 levels adjustable): $10^{\circ} / 18^{\circ}$ or $15^{\circ} / 18^{\circ}$
- ✓ Acoustic lens: 55mm×8mm
- ✓ Biopsy bracket: NGB12L-A, $44^{\circ} / 53^{\circ} / 64^{\circ}$, sterilizable
- 12L-B
- ✓ Application: Peripheral Vascular, Superficial, Small Parts
- ✓ Frequency range: 3.0-17.0MHz
- ✓ Central frequency: 8.0 MHz
- ✓ Transducer element: 192
- ✓ Width of view: 38mm
- ✓ Depth: ≥ 11 cm
- ✓ B steer: $0^{\circ} \pm 10^{\circ}$, 3 levels
- ✓ ROI steer/sample line steer: $0^{\circ} \pm 16^{\circ} \pm 20^{\circ}$ (some modes: $0^{\circ} \pm 12^{\circ} \pm 20^{\circ}$)
- ✓ Trapezoid imaging: (unilateral, 2 levels adjustable): $15^{\circ} / 18^{\circ}$
- ✓ Acoustic lens: 42mm×7mm
- ✓ Biopsy bracket: NGB12L-B, $39^{\circ} / 48^{\circ} / 60^{\circ}$, sterilizable
- 9L-A
- ✓ Application: Peripheral Vascular, Superficial, Small Parts
- ✓ Frequency range: 2.0-13.0MHz
- ✓ Central frequency: 6.0 MHz
- ✓ Transducer element: 128
- ✓ Width of view: 35mm
- ✓ Depth: ≥ 11 cm
- ✓ B steer: $0^{\circ} \pm 8^{\circ}$, 3 levels
- ✓ ROI steer/sample line steer: $0^{\circ} \pm 16^{\circ} \pm 20^{\circ}$ (some modes: $0^{\circ} \pm 12^{\circ} \pm 20^{\circ}$)
- ✓ Trapezoid imaging: (unilateral, 2 levels adjustable): $12^{\circ} / 18^{\circ}$
- ✓ Acoustic lens: 42mm×9mm
- ✓ Biopsy bracket: NGB9L-A, $38^{\circ} / 47^{\circ} / 59^{\circ}$, sterilizable
- L742
- ✓ Application: Vascular, Small Parts, Musculoskeletal
- ✓ Frequency range: 4.0-16.0MHz
- ✓ Central frequency: 8.0MHz
- ✓ Transducer element: 256
- ✓ Width of view: 51mm
- ✓ Depth: ≥ 11 cm
- ✓ B steer: $0^{\circ} \pm 10^{\circ}$, 3 levels
- ✓ ROI steer/sample line steer: $0^{\circ} \pm 16^{\circ} \pm 20^{\circ}$
- ✓ Trapezoid imaging (unilateral, 2 levels adjustable): $15^{\circ} / 18^{\circ}$
- ✓ Acoustic lens: 55mm×10mm
- ✓ Biopsy bracket: NGBL742-2, $59.8^{\circ} / 42.9^{\circ}$, sterilizable
- L752
- ✓ Application: Vascular, Small Parts, Musculoskeletal
- ✓ Frequency range: 4.0-16.0MHz
- ✓ Central frequency: 8.0MHz
- ✓ Transducer element: 256
- ✓ Width of view: 51mm
- ✓ Depth: ≥ 11 cm
- ✓ B steer: $0^{\circ} \pm 10^{\circ}$, 3 levels
- ✓ ROI steer/sample line steer: $0^{\circ} \pm 16^{\circ} \pm 20^{\circ}$
- ✓ Trapezoid imaging (unilateral, 2 levels adjustable): $15^{\circ} / 18^{\circ}$
- ✓ Acoustic lens: 55mm×10mm
- ✓ Biopsy bracket: NGBL752, 45° , sterilizable

10.3 Phased Array Probe

- S1-5
- ✓ Application: Cardiology
- ✓ Frequency range: 1.0-7.0MHz
- ✓ Central frequency: 2.7 MHz
- ✓ Transducer element: 80
- ✓ Field of view: 90°
- ✓ Depth: ≥ 35 cm
- ✓ Acoustic lens: 25mm×16mm
- ✓ Biopsy bracket: NGBS1-5, $11.5^{\circ} / 18^{\circ} / 28^{\circ}$, sterilizable
- 7P-A
- ✓ Application: Pediatric Cardiology
- ✓ Frequency range: 2.0-9.0MHz
- ✓ Central frequency: 4.5MHz
- ✓ Transducer element: 96
- ✓ Field of view: 90°

- ✓ Depth: $\geq 16\text{cm}$
- ✓ Acoustic lens: $21\text{mm} \times 12\text{mm}$
- ✓ Biopsy bracket: NGB7P-A,
13 °/18.5 °/24.5 °; sterilizable
- 2P1
 - ✓ Application: Cardiology
 - ✓ Frequency range: 2.0-4.0MHz
 - ✓ Central frequency: 2.5MHz
 - ✓ Transducer element: 64
 - ✓ Field of view: 90 °
 - ✓ Depth: $\geq 35\text{cm}$
 - ✓ Acoustic lens: $24\text{mm} \times 16\text{mm}$
 - ✓ Biopsy bracket: NGB2P1,
19 °; sterilizable
- 8P1
 - ✓ Application: Neonatal Cardiology
 - ✓ Frequency range: 4.0-12.0MHz
 - ✓ Central frequency: 6.5MHz
 - ✓ Transducer element: 96
 - ✓ Field of view: 90 °
 - ✓ Depth: $\geq 16\text{cm}$
 - ✓ Acoustic lens: $14\text{mm} \times 10\text{mm}$

10.4 Volume Probe

- VC6-2
 - ✓ Application: Abdomen, Obstetrics
 - ✓ Frequency range: 2.0-7.0MHz
 - ✓ Central frequency: 3.75MHz
 - ✓ Curvature radius: 40mm
 - ✓ Transducer element: 128
 - ✓ Field of view: 68 °
 - ✓ Widescan (unilateral, 2 levels adjustable): 14 °/18 °
 - ✓ Depth: $\geq 30\text{cm}$
 - ✓ Acoustic window: $150\text{mm} \times 86\text{mm}$
- VE9-5
 - ✓ Application: Gynecology, Obstetrics
 - ✓ Frequency range: 2.0-13.0MHz
 - ✓ Central frequency: 6.0MHz
 - ✓ Curvature radius: 10.3mm
 - ✓ Transducer element: 180
 - ✓ Field of view: 182 °
 - ✓ Widescan (unilateral, 2 levels adjustable): 14 °/18 °
 - ✓ Depth: $\geq 16\text{cm}$

- ✓ Acoustic lens: $39\text{mm} \times 39\text{mm}$

10.5 Specialty Probe

- CWD2.0
 - ✓ Application: Trans-cranial
 - ✓ Central frequency: 2MHz
 - ✓ Transducer element: 2
 - ✓ Acoustic window: $\Phi 20\text{mm}$
- CWD5.0 (Only for FDA)
 - ✓ Application: Trans-cranial
 - ✓ Central frequency: 5MHz
 - ✓ Transducer element: 2
 - ✓ Acoustic window: $\Phi 14\text{mm}$

11 Peripheral Devices and Accessories

11.1 Printer

- Printer types
 - ✓ Color ink jet printer
 - ✓ B/W video printer
 - ✓ Color video printer
- Print types
 - ✓ Video print
 - ✓ Network print
 - ✓ USB print
 - ✓ Windows print
- Add printer
- Available printer models:
 - ✓ Epson L130 Series
 - ✓ MITSUBISHI P95DW-N
 - ✓ SONY UP-D897
 - ✓ SONY UP-D898MD
 - ✓ SONY UP-D25MD
 - ✓ SONY UP-X898MD
 - ✓ Canon Selphy CP910
 - ✓ CP1200
 - ✓ CP1300
 - ✓ HP Color Laster Jet CP1515n
 - ✓ HP Color Laster Jet Pro M252n

11.2 Foot Switch

- 2 pedals
- Foot switch: available
- User-defined short-cut keys

11.3 USB Bar Code Scanner

- Bar code input

11.4 DVD R/W Drive

- Export patient data to DVD
- Import patient data from DVD

12 Safety and Certification

- Certification: ISO 9001, ISO 13485
- Comply with:
 - ✓ EN 60601-1 and IEC 60601-1
 - ✓ EN 60601-1-2 and IEC 60601-1-2
 - ✓ EN 60601-1-6 and IEC 60601-1-6
 - ✓ EN 60601-2-37 and IEC 60601-2-37
 - ✓ EN 62304 and IEC 62304
 - ✓ EN 62366-1 and IEC 62366-1
- CE announcement: this system is consistent with EU medical devices directive 93/42/EEC. The code (0197) following CE logo is the number of the notified body by EU, which proves the system is consistent with the directive 93/42/EEC.

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