

Specifications for P15 Digital Color Doppler Ultrasound System



SonoScape

SonoScape Medical Corp

1 General Specification

1.1 Application

- Abdomen
- Cephalic
- Pediatric
- Gynecology/Obstetrics
- Pelvic Floor
- Cardiology
- Peripheral vascular
- Small parts
- Musculoskeletal
- Transvaginal
- Transrectal

1.2 Available Probe

- Convex array probe
- Linear array probe
- Phased array probe
- Volume probe

1.3 Imaging Mode

- B
- THI/PHI
- M
- Anatomical M
- Color M
- CFM
- PDI/DPDI
- PW
- CW
- TDI
- TDI+PW
- TDI+M
- 3D/4D

1.4 Function and Configuration

- 5-band adjustable frequency in B mode (fundamental wave and harmonic wave)
- μ -scan
- Compound imaging
- LGC (2 bands)
- Tissue specific index
- Image rotation
- Trapezoid Imaging
- HPRF
- Simultaneous mode (Duplex/Triplex)
- PW Auto Trace

- Auto IMT
- Auto NT
- Auto EF
- AVC Follicle
- Scr-Zoom
- B mode panoramic imaging
- Color panoramic imaging
- Biopsy guide
- Vis-Needle
- Freehand 3D
- 3D/4D
- S-Live
- S-Depth
- C-xlasto
- ABD Contrast with TIC
- ECG
- S-Guide
- Auto Face
- Stress echo
- Tei index

1.5 Available Language

- Software: English, Simplified Chinese, Spanish, Russian, French, Italian, German, Norwegian, Portuguese
- Keyboard: English, Simplified Chinese, Spanish, Russian, French, Italian, German, Norwegian, Portuguese
- User manual: English, Simplified Chinese, Polish, German, Russian, French, Spanish, Italian, Portuguese

2 Physical Specification

2.1 Size and Weight

- Width: approx. 526 mm
- Depth: approx. 751 mm
- Height: approx. 1400 mm
- Weight: approx. 77 kg

2.2 Monitor

- 21.5-inch medical high-resolution monitor
- Resolution: 1920×1080
- Viewing angle: 178° (horizontal), 178° (vertical)
- Swivel angle: $\pm 45^\circ$
- Up and down angle: 25° (up) to 90° (down)
- Contrast and brightness: adjustable

- Frequency: 60 Hz
- Monitor arm
 - ✓ Swivel angle: $\pm 53^\circ$
 - ✓ Swivel angle between upper arm and lower arm: left/right, $\pm 112^\circ$; height difference: 0 - 100 mm

2.3 Touch Screen

- 13.3-inch medical high-resolution touch screen
- Resolution: 1920×1080
- Viewing angle: 160°(left and right), 160°(up and down)
- User preset for parameter layout
- Angle of inclination adjustable: $\geq 10^\circ$
- Brightness and contrast: adjustable
- Available to touch with latex gloves
- Anti-glare protection film

2.4 Control Panel

- User-oriented design
- Backlight design: panel buttons
- Multiple defined-keys
- TGC: 8 levels slider controls
- Adjustable sensitivity of trackball
- Pull-out keyboard

2.5 Speaker

- Hi-Fi Speaker
- Frequency respond: 200 Hz -12 kHz

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 (4 ports are activated and interchangeable, 1 port is inactive)
- Pencil probe port: 1
- Probe holder: 4
- Coupling gel holder: 2
- Cable hanger: 2
- Coupling gel heater: 1

2.8 Power

- Power supply: 100-127V~/220-240V~, 2.7 - 1.1A, 50/60Hz
- Power Consumption: 500VA
- Built-in battery (charging time ≤ 9 h; power supply time ≥ 1.5 h)

2.9 Working Environment

- Temperature: $+10^\circ\text{C}$ to $+40^\circ\text{C}$
- Relative humidity: 30% - 75% RH (no condensation)
- Atmospheric pressure: 700 hPa - 1060 hPa
- System noise: ≤ 44 dB

2.10 Storage and Transportation Environment

- Temperature: -20°C to $+55^\circ\text{C}$
- Relative humidity: 20% - 90% (no condensation)
- Atmospheric pressure: 700 hPa - 1060 hPa

3 Annotation and Bodymark

- Annotation: text annotation and arrow annotation
- Manual text annotation by touch screen
- Front size of text annotation: adjustable
- Initial position
- Preset text annotation
- Arrow direction: adjustable
- All exam applications included
- Body marks: ≥ 122
- Body marks classified by specific exam types, and position adjustable

4 Monitor Information

- Manufacturer logo
- Hospital name
- System date and time
- Probe and exam item
- MI and TIS
- Operator
- Probe icon
- Patient ID, name and date of birth
- Gender and GA
- Exam type icon
- Tissue temperature display (specified probe)
- Depth scale and focus position
- Image parameters
- Thumbnail
- Clipboard
- Screen saver

5 Image Parameter

5.1 Description

- System boot up: approx. 60s

- System shut down: approx. 20s
- Frame rate: ≥ 1493 fps (e.g. L741 probe)
- Grayscale: 256 levels
- Transducer element: up to 256
- Quad-beam
- Volume: 0 - 100, 101 levels

5.2 B Mode

- Gain: 1 - 255 adjustable
- Scan depth: 40 cm
- Compound imaging: Off, 1, 2, 3 levels
- Frequency: 5 bands adjustable (fundamental wave and harmonic wave)
- Chroma: 1 -13, 13 types
- Adaptive image fusion: 0 -15, 16 types
- μ -Scan: Off, 1 - 8, 9 levels
- Line density: Low, Med, High, 3 levels
- Persist: 0 - 60 (e.g. L741 probe)
- Focus: 12 (e.g. L741 probe)
- Focus span: adjustable
- Dynamic range: 20 - 280 (e.g. L741 probe)
- Gray Map: 1 - 15, 15
- Power: 1-100%, 100 levels
- Tissue acoustic: 1400 - 1700, 31 levels
- TGC: 8 levels slider controls
- LGC: left and right gain compensation
- Image reverse: up/down, left/right, rotation
- Scan range and position: adjustable
- B steer: 3 levels adjustable (linear array probe)
- Trapezoid imaging: Off, 1, 2 (linear array probe)
- Auto optimization

5.3 M Mode

- Gain: 1 - 255 adjustable
- Chroma: 1-5, 5 levels (e.g. 3P-A)
- Display format: H1/2, H1/4, V1/3, V1/2, V2/3, O1/4
- Scan speed: Min, Slow, Med, Fast, Max, 5 levels (e.g. phased array probe)
- Video invert: On/Off
- M process: Ave, Peak
- Power: 30 - 100%, 8 levels
- Color M: CFM, TDI (e.g. phased array probe)

5.4 Anatomic M Mode

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

5.5 CFM Mode

- Frame rate: ≥ 160 fps (e.g. L741 probe)
- Gain: 0 - 255 adjustable
- Power: 0 - 100%, 11 levels
- B reject: 0 - 255, 256 levels
- Size and position of color ROI: adjustable
- Image reverse: up/down, left/right
- Invert: On/Off
- Frequency: 5 levels adjustable
- Wall filter: 25 - 750 adjustable (e.g. L741 probe)
- PRF: 0.5 - 8 kHz adjustable (e.g. L741 probe)
- Line density: Low, Med, High, 3 levels
- Color Map: 1 - 10, 10 levels (e.g. L741 probe)
- Baseline: ± 15 , 31 levels
- Persist: 0 - 80, 5 levels (e.g. L741 probe)
- ROI steer: 5 levels adjustable (linear array probe)
- ROI color: adjustable
- Auto optimization
- Dual live

5.6 PDI/DPDI Mode

- Dual live
- Power: 0 - 100%, 11 levels
- B reject: 0 - 255, 256 levels
- Persist: 0 - 80, 5 levels (e.g. 3C-A probe)
- Color Map: 1 - 10, 10 levels, 1 - 7 for PDI; 8 - 10 for DPDI (e.g. L741 probe)
- Image reverse: up/down, left/right
- Wall filter: 25 - 750 (e.g. L741 probe)

5.7 PW Mode

- Gain: 0 - 255 adjustable
- Display format: H1/2, H1/4, V1/3, V1/2, V2/3, O1/4, 6 levels
- Simultaneous mode (Duplex/Triplex)
- PW sample volume size: 0.7 - 21 mm (e.g. L741 probe)
- PW sample volume position: adjustable
- Invert: On/Off
- Quick angle correction: 0° , 60° , -60°
- Angle correction range: 0° to 72°
- Steer angle: 0, ± 16 , ± 20 , 5 levels adjustable
- Auto trace: achievable in real-time mode and frozen mode
- Baseline: 17 levels selectable

- Frequency: 5 levels adjustable
- Wall filter: 25 - 750 adjustable (e.g. L741 probe)
- PRF: 1 - 16 kHz (e.g. L741 probe)
- HPRF
- Max. velocity range: 0 - 13 m/s
- Sweep speed: Min, Slow, Med, Fast, Max, 5 levels
- Chroma: 1 - 5, 5 levels
- Dynamic range: 1 - 10, 10 levels (e.g. L741 probe)
- Auto optimization
 - ✓ Baseline auto optimization
 - ✓ PRF auto optimization

5.8 CW Mode

- Gain: 0 - 255 adjustable
- Display format: H1/2, H1/4, V1/3, V1/2, V2/3, O1/4, 6 levels
- CW sample volume position: adjustable
- Invert: On/Off
- Angle correction range: 0° - 72°
- Auto trace: achievable in real-time mode and frozen mode
- Baseline: 17 levels selectable
- Wall filter: 25 - 1500 adjustable (e.g. 3P-A probe)
- PRF: 1 - 48 KHz (e.g. 3P-A probe)
- Max. velocity range: 0 - 65 m/s
- Scan speed: Slow, Fast, Max, 3 levels
- Chroma: 1 - 5, 5 levels
- Dynamic range: 1 - 5, 5 levels
- TDI mode
- Tissue speed imaging: achievable
- Power: 0 - 100%, 11 levels
- B reject: 0 - 255, 256 levels
- Persist: 0 - 50, 5 levels (e.g. 3P-A probe)
- Color map: 1 - 14, 14 levels
- Image reverse: up/down, left/right
- Flow invert: On/Off
- Wall filter: 25 - 750 (e.g. 3P-A probe)

5.9 TDI+PW Mode

- PRF: 1 - 16 kHz (e.g. 3P-A probe)
- Max velocity range: 0 - 19 m/s

5.10 TDI+M Mode

- Gain: 1-255 adjustable

- Chroma: 1-5, 5 levels
- Display format: H1/2, H1/4, V1/3, V1/2, V2/3, O1/4
- Scan speed: Min, Slow, Med, 3 levels
- M process: Ave, Peak
- Power%: 30 - 100, 8 levels

5.11 Freehand 3D

- Scan method: sector scan, linear scan
- Display mode: dual-split screen display, quad-split screen display, 3D full display
- Rotate X: rotate 4° along X axis
- Rotate Y: rotate 4° along Y axis
- Rotate Z: rotate 4° along Z axis
- Up/Down: move the image up/down
- Left/Right: move the image left/right
- Viewing angle: Top, Bottom, Left, Right, Front, Back
- 3D orientation: 0°, 90°, 180°, 270°
- Reset: default settings, swivel angle, view angle
- Render mode: Surface, Grad. Light, Transp. Min, X-Ray, S-Depth, S-Live, S-Live Silhouette, Skeleton, Skeleton Depth
- Threshold: 0 - 255, 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: 0 - 14 adjustable, 1 each step (render mode dependent)
- Zoom ratio in linear scan mode: 0.1 - 2.0, 0.1 each step (Too few of slices will decrease the adjustment range)
- Zoom angle in sector scan mode: 10° - 170°, 5° each step
- Edit: trace, box, eraser
- M-Slice
 - ✓ Slice display: 1*2, 2*2, 3*3, 3*4, 4*4, 5*5
 - ✓ Slice distance: 0.5 - 10.0, 0.5 each step
 - ✓ Slice number: 3 - 29, 2 each step
 - ✓ Single slice magnification
- AVC Follicle

5.12 3D/4D

- Display mode: dual-split screen display, quad-split screen display, 3D full display

- Rotate X: rotate 4° along X axis
- Rotate Y: rotate 4° along Y axis
- Rotate Z: rotate 4° along Z axis
- Up/Down: move the image up/down
- Left/Right: move the image left/right
- Viewing angle: Top, Bottom, Left, Right, Front, Back
- 3D orientation: 0°, 90°, 180°, 270°
- Reset: default settings, swivel angle, view angle
- Render mode: Surface, Grad. Light, Transp. Min, X-Ray, S-Depth, S-Live, S-Live Silhouette, Skeleton, Skeleton Depth
- Free rotation: 0°, 45°, 90°, 180°, 270°, 360°
- Image quality: High, Med, Low
- Swivel angle: 5° - 75° (VC6-2), 5° each step; 10° - 120° (VE9-5), 10° each step
- Stability: On/Off
- Edit ROI: On/Off
- Auto face: On/Off
- Reset: default settings, swivel angle, view angle
- Adjust light: On/Off (S-Live)
- Pre-activated mode: pre-activated mode return available
- Cine review: 0 - 499 (volume value dependent)
- Trackball (rotate highlighted): Rotate, Rotate Z
- Threshold: 0 - 255, 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: 0 - 14 adjustable, 1 each step (render mode dependent)
- B Chroma: 1 - 13, 1 each step
- Edit: trace, box, eraser
- Display (C-Plane): AB, AC, BC, ABC
- M-Slice
 - ✓ Slice display: 1*2, 2*2, 3*3, 3*4, 4*4, 5*5
 - ✓ Slice distance: 0.5 - 10.0, 0.5 each step
 - ✓ Slice number: 3 - 29, 2 each step
 - ✓ Single slice magnification
- AVC Follicle

5.13 C-xlasto

- Image reverse: up/down, left/right
- Display mode: single display and dual live display
- Map display: independent adjustment of left and

right map

- Depth adjustment
- B image gain: adjustable
- TGC
- User-defined preset of C-xlasto
- 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
- Contrast: 0.02 - 2.0, 0.01 each step
- Transparency: 0.10 - 1.0, 0.02 each step
- Persist: 0.02 - 0.98, 0.02 each step

5.14 Contrast

- Display mode: single display and dual live display
- Image reverse: up/down, left/right
- Biopsy and biopsy correction
- Two timers
- Flash power: 1 - 100, 1 each step
- Flash time: 0.1 s - 4.0 s
- Dynamic range: 40 - 320, 15 each step
- Power: 1 - 100%, 100 levels
- Gray map: 1 - 9, 9 levels
- Chroma: 1 - 16, 16 levels
- μ -Scan: Off, 1 - 8, 9 levels
- Persist: 0 - 60, 7 levels
- TIC curve analysis
 - ✓ Auto/manual ellipse trace measurement
 - ✓ Max. ROI: 8
 - ✓ Four compound curves: Bolus WIWO, General, Wash In, Wash Out
 - ✓ Cine speed: 7 levels

5.15 Panoramic Imaging

- B mode panoramic imaging
 - ✓ Real-time mode: linear array probe and convex array probe (including micro-convex probe 6V3)
 - ✓ Frozen mode: linear array probe, convex array probe and phased array probe
- CFM/PDI color panoramic imaging (only for linear array probe)
- Rotation: 0 - 360°
- Zoom: 2 times
- Maximum available length: 1000 mm

5.16 Biopsy Guide Function

- Biopsy lines angle correction

- Biopsy lines angle: adjustable
- Biopsy lines offset: adjustable
- Biopsy grid (Biplane probe)
- User-defined biopsy line angle

5.17 Vis-Needle

- Steer angle: 20°, 30°, 40°, 50°, 4 levels
- Biopsy depth: adjustable
- Dual live

5.18 Split Display

- Display format: single (B), dual (2B), quad (4B)
- B/C dual live: available in CFM, PDI and TDI mode

5.19 Widescan

- Trapezoid imaging: Off, 1, 2 (linear array probe)
- Widescan imaging (convex): Off, 1, 2 (only available for some of probes)

5.20 Zoom

- Zoom ratio: 0.8 - 10.0
- Scr-Zoom
- HD-Zoom

5.21 Preset Exam

- Preset optimal exam mode and parameter for different probes and exam types
- Preset order: adjustable
- Import or export preset

6 Measurement/Analysis and Report

6.1 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
- Line ID display: On, Off
- Keep result window: On, Off
- Result font size: Small, Medium, Large
- Result position: Right Top, Right Bottom, Left Top, Left Bottom adjustable in 2D/ dual-split+quad-split/ M/ Doppler mode

6.2 Application-specific 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

6.3 Report

- Measurement values: editable
- Value method: single value switch achievable
- Image insertion
- Report preview
- Report logo (170 x 60 Pixel, bmp): changeable
- Font size and color
- Background color
- Export format: PDF, TXT
- Display items
- Application-specific measurement report
 - ✓ Fetal growth curves
 - ✓ Fetus anatomy evaluation
 - ✓ Fetus compare (four fetuses)

6.4 Auto Measurement

- Auto IMT
- Auto NT
- Auto EF
- AVC Follicle

7 Storage and Data Management

7.1 Storage

- Hard disk storage: 500G, free: ≥ 466 G
- 2D cine maximum frames: 100 - 2000 frames
- 3D cine maximum frames: 77 frames (probe and parameter dependent)
- Directly store to USB drive
- Prospective storage for contrast image: 480 s (Maximum)

7.2 Data Management

- Image share service (Samba)
- Export data to USB drive or DVD
- Export format:

- ✓ System format
- ✓ PC format
 - Image format: BMP, JPG, TIF
 - Cine format: AVI, WMV
 - Report format: PDF, TXT
- ✓ DICOM format
- Clipboard: thumbnail display, delete, export
- Create exam, resume exam, resume suspended exam
- Query/Retrieve service
- Review current exam and history exam
- Post-processing and post-measurement
- Show gallery

8 Cine Review

- Cine review: manual review frame by frame and auto play with adjustable speed
- Skip from first frame to last frame
- Auto play with trackball

9 System Input and Output

9.1 I/O Port

- Video output: 7
 - ✓ HDMI
 - ✓ DVI
 - ✓ VGA
 - ✓ RGB
 - ✓ VIDEO OUT: 2
 - ✓ S-VIDEO OUT
- Audio output: 1 (AUDIO OUT)
- Audio input: 2 (Reserved)
 - ✓ AUDIO IN
 - ✓ MIC IN
- Video input: 2 (Reserved)
 - ✓ VIDEO IN
 - ✓ S-VIDEO IN
- Physiological signal input: 1
- USB port
 - ✓ USB 3.0: 2
 - ✓ USB 2.0: 4
 - ✓ Engineering port: 1
- Foot switch input: 1 (round port)
- Ethernet port: 1
- Video print port: 2

9.2 Video Output Settings

- Video/S-video: N, P
- DVI/HDMI: 1024*768, 1920*1080
- VGA/RGB: 1024*768, 1920*1080

9.3 Network Connection

- Local network
 - ✓ Local network: Enable/Disable
 - ✓ DHCP or static IP
 - ✓ Static IP: IP address, netmask, default Gateway
 - ✓ MAC address check
 - ✓ Advance: speed (10M, 100M, 1000M), duplex (Semi Duplex, Full Duplex)
- Ping IP Address
- Wireless network
 - ✓ Wireless network: Enable/Disable
 - ✓ Authentication method: open authentication, WEP, WPA/ WPA2-PSK
 - ✓ DHCP or static IP
 - ✓ Static IP: IP, netmask, default gateway

10 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

11 Probe

11.1 Convex Array Probe

- 3C-A
 - ✓ Application: Abdomen, Gynecology, Obstetrics
 - ✓ Frequency range: 1.0 - 7.0 MHz
 - ✓ Curvature radius: 50 mm
 - ✓ Field of view: 60°
 - ✓ Widescan: 10°/20°
 - ✓ Depth: ≥ 40 cm
 - ✓ Acoustic lens: 60 mm $\times$ 18 mm
 - ✓ Biopsy bracket: NGB3C-A, 12°/16.5°/22.5°/33.5°, disinfectable
- C1-6
 - ✓ Application: Abdomen, Gynecology, Obstetrics
 - ✓ Frequency range: 1.0 - 8.0 MHz
 - ✓ Field of view: 64°
 - ✓ Widescan: 10°/20°
 - ✓ Depth: ≥ 40 cm
 - ✓ Acoustic lens: 60 mm $\times$ 16 mm
 - ✓ Biopsy bracket: NGBC1-6, 15°/24°,

- disinfectable
- 6V1
 - ✓ Application: Gynecology, Urology
 - ✓ Frequency range: 3.0 - 15.0 MHz
 - ✓ Curvature radius: 11 mm
 - ✓ Field of view: 135°
 - ✓ Depth: ≥ 16 cm
 - ✓ Acoustic lens: 32 mm $\times$ 10 mm
 - ✓ Biopsy bracket: NGB6V1, 0°, disinfectable
 - ✓ Temperature monitoring
- 6V3
 - ✓ Application: Gynecology, Urology
 - ✓ Frequency range: 3.0 - 15.0 MHz
 - ✓ Curvature radius: 10.3 mm
 - ✓ Field of view: 198°
 - ✓ Widescan: 10°
 - ✓ Depth: ≥ 16 cm
 - ✓ Acoustic lens: 41 mm $\times$ 10 mm
 - ✓ Biopsy bracket: NGB6V3-2, 0°, disinfectable
 - ✓ Temperature monitoring
- 6V7
 - ✓ Application: Gynecology, Urology
 - ✓ Frequency range: 3.0 - 15.0 MHz
 - ✓ Field of view: 198°
 - ✓ Widescan: 10°
 - ✓ Depth: ≥ 16 cm
 - ✓ Acoustic lens: 41 mm $\times$ 10 mm
 - ✓ Biopsy bracket: NGB6V7, 15°, disinfectable
 - ✓ Temperature monitoring
- 6V3A
 - ✓ Application: Gynecology, Urology
 - ✓ Frequency range: 3.0 - 15.0 MHz
 - ✓ Curvature radius: 8 mm
 - ✓ Field of view: 147°
 - ✓ Widescan: 10°
 - ✓ Depth: ≥ 16 cm
 - ✓ Acoustic window: 26 mm $\times$ 10 mm
 - ✓ Temperature monitoring
- C613
 - ✓ Application: Cardiology, Abdomen, Pediatric Cranial
 - ✓ Frequency range: 4.0 - 13.0 MHz
 - ✓ Curvature radius: 14 mm
 - ✓ Field of view: 90°
 - ✓ Depth: ≥ 16 cm
 - ✓ Acoustic lens: 30 mm $\times$ 10 mm
 - ✓ Biopsy bracket: NGBC613, 12°/18°/30°, disinfectable
- BCL10-5
 - ✓ Application: Urology
 - ✓ Frequency range: 4.0 - 16.0 MHz
 - ✓ Biopsy bracket: NGBBCL10-5, disinfectable; Biopsy depth (linear array): 10 mm - 50 mm
 Convex array:
 - ✓ Curvature radius: 10 mm
 - ✓ Field of view: 200°
 - ✓ Depth: ≥ 15 cm

✓ Acoustic window: 40 mm $\times$ 10 mm

Linear array:

- ✓ Width of view: 60 mm
- ✓ Depth: ≥ 10 cm
- ✓ Acoustic window: 63 mm $\times$ 9 mm

11.2 Linear Array Probe

- L741
 - ✓ Application: Vascular, Small parts, Peripheral, Musculoskeletal, Neurology
 - ✓ Frequency range: 4.0 - 16.0 MHz
 - ✓ Width of view: 46 mm
 - ✓ Depth: ≥ 10 cm
 - ✓ B steer: 0°/±8°, 3 levels (0°/±10° in some of exam modes)
 - ✓ ROI/Sample line steer: 0°/±16°/±20°, 5 levels
 - ✓ Trapezoid imaging: 8°/ 20° (10°/ 20° in some of exam modes)
 - ✓ Acoustic lens: 49 mm $\times$ 10 mm
 - ✓ Biopsy bracket: NGBL741, 45°, disinfectable
- L752
 - ✓ Application: Vascular, Small parts, Peripheral, Musculoskeletal, Neurology
 - ✓ Frequency range: 4.0 - 16.0 MHz
 - ✓ Width of view: 51 mm
 - ✓ Depth: ≥ 10 cm
 - ✓ B steer: 0°/±8°, 3 levels (0°/±10° in some of exam modes)
 - ✓ ROI/Sample line steer: 0°/±16°/±20°
 - ✓ Trapezoid imaging: 10°/ 20°
 - ✓ Acoustic lens: 55 mm $\times$ 10 mm
 - ✓ Biopsy bracket: NGBL752, 45°, disinfectable
- L742
 - ✓ Application: Vascular, Small parts, Peripheral, Musculoskeletal, Neurology
 - ✓ Frequency range: 4.0 - 16.0 MHz
 - ✓ Width of view: 38 mm
 - ✓ Depth: ≥ 10 cm
 - ✓ B steer: 0°/±8° (0°/±10° in some of exam modes)
 - ✓ ROI/Sample line steer: 0°/±16°/±20°
 - ✓ Trapezoid imaging: 10°/ 20°
 - ✓ Acoustic lens: 42 mm $\times$ 10 mm
 - ✓ Biopsy bracket: NGBL724-2, 42.9°/59.8°, disinfectable
- 12L-A
 - ✓ Application: Vascular, Small parts, Musculoskeletal
 - ✓ Frequency range: 3.0 - 17.0 MHz
 - ✓ Width of view: 52 mm
 - ✓ Depth: ≥ 10 cm
 - ✓ B steer: 0°/±8°, 3 levels
 - ✓ ROI/Sample line steer: 0°/±16°/±20°
 - ✓ Trapezoid imaging: 10°/ 20°
 - ✓ Acoustic window: 55 mm $\times$ 8 mm
 - ✓ Biopsy bracket: NGB12L-A, 44°/53°/64°,

- disinfectable
- 12L-B
 - ✓ Application: Vascular, Small parts, Musculoskeletal
 - ✓ Frequency range: 3.0 - 17.0 MHz
 - ✓ Width of view: 38 mm
 - ✓ Depth: ≥ 10 cm
 - ✓ B steer: $0^\circ/\pm 8^\circ$, 3 levels
 - ✓ ROI/Sample line steer: $0^\circ/\pm 16^\circ/\pm 20^\circ$
 - ✓ Trapezoid imaging: $8^\circ/20^\circ$
 - ✓ Acoustic lens: 42 mm $\times$ 7.0 mm
- LAP7
 - ✓ Application: Laparoscopic
 - ✓ Frequency range: 3.0 - 15.0 MHz
 - ✓ Width of view: 39 mm
 - ✓ Depth: ≥ 12 cm
 - ✓ B steer: $0^\circ/\pm 8^\circ$, 3 levels ($0^\circ/\pm 6^\circ$ in some of exam modes)
 - ✓ ROI/Sample line steer: $0^\circ/\pm 12^\circ/\pm 16^\circ$
 - ✓ Trapezoid imaging: $10^\circ/20^\circ$
 - ✓ Acoustic lens: 42 mm $\times$ 10 mm
 - ✓ Temperature monitoring

11.3 Phased Array Probe

- 3P-A
 - ✓ Application: Cardiology
 - ✓ Frequency range: 1.0 - 7.0 MHz
 - ✓ Field of view: 90°
 - ✓ Depth: ≥ 40 cm
 - ✓ Acoustic window: 25 mm $\times$ 16 mm
 - ✓ Biopsy bracket: NGB4P-A, $14^\circ/26^\circ$, disinfectable
- S1-5
 - ✓ Application: Cardiology
 - ✓ Frequency range: 1.0 - 7.0 MHz
 - ✓ Field of view: 90°
 - ✓ Depth: ≥ 32 cm
 - ✓ Acoustic window: 25 mm $\times$ 16 mm
 - ✓ Biopsy bracket: NGBS1-5, $11.5^\circ/18^\circ/28^\circ$, disinfectable
- MPTEE
 - ✓ Application: Transesophageal
 - ✓ Frequency range: 4.0 - 13.0 MHz
 - ✓ Field of view: 90°
 - ✓ Depth: ≥ 15 cm
 - ✓ Temperature monitoring
- 7P-B
 - ✓ Application: Pediatric Cardiology
 - ✓ Frequency range: 2.0 - 9.0 MHz
 - ✓ Field of view: 90°
 - ✓ Depth: ≥ 25 cm
 - ✓ Acoustic lens: 21 mm $\times$ 12 mm

11.4 Volume Probe

- VC6-2
 - ✓ Application: Obstetrics, Abdomen
 - ✓ Frequency range: 2.0 - 7.0 MHz

- ✓ Curvature radius: 40 mm
- ✓ Field of view: 68°
- ✓ Widescan: $10^\circ/20^\circ$
- ✓ Depth: ≥ 24 cm
- ✓ Acoustic window: 150 mm $\times$ 86 mm
- VE9-5
 - ✓ Application: Gynecology, Obstetrics
 - ✓ Frequency range: 2.0 - 13.0 MHz
 - ✓ Curvature radius: 10.3 mm
 - ✓ Field of view: 182°
 - ✓ Widescan: $10^\circ/20^\circ$
 - ✓ Depth: ≥ 15 cm
 - ✓ Acoustic window: 24 mm $\times$ 24 mm/39 mm $\times$ 39 mm
 - ✓ Temperature monitoring

11.5 Intraoperative Probe

- 6CI-A
 - ✓ Application: Intraoperative
 - ✓ Frequency range: 3.0 - 15.0 MHz
 - ✓ Curvature radius: 40 mm
 - ✓ Field of view: 44°
 - ✓ Widescan: 10°
 - ✓ Depth: ≥ 18 cm
 - ✓ Acoustic window: 35 mm $\times$ 9 mm
 - ✓ Temperature monitoring
- 6CT-A
 - ✓ Application: Intraoperative
 - ✓ Frequency range: 3.0 - 15.0 MHz
 - ✓ Curvature radius: 40 mm
 - ✓ Field of view: 44°
 - ✓ Widescan: 10°
 - ✓ Depth: ≥ 18 cm
 - ✓ Acoustic window: 35 mm $\times$ 9 mm
 - ✓ Temperature monitoring
- 12LI-A
 - ✓ Application: Intraoperative
 - ✓ Frequency range: 4.0 - 16.0 MHz
 - ✓ Width of view: 33 mm
 - ✓ Depth: ≥ 10 cm
 - ✓ B steer: $0^\circ/\pm 6^\circ$, 3 levels ($0^\circ/\pm 10^\circ$ in some of exam modes)
 - ✓ ROI/Sample line steer: $0^\circ/\pm 12^\circ/\pm 16^\circ$
 - ✓ Trapezoid imaging: $10^\circ/20^\circ$
 - ✓ Acoustic lens: 37 mm $\times$ 8 mm
 - ✓ Temperature monitoring
- 12LT-A
 - ✓ Application: Intraoperative
 - ✓ Frequency range: 4.0 - 16.0 MHz
 - ✓ Width of view: 33 mm
 - ✓ Depth: ≥ 10 cm
 - ✓ B steer: $0^\circ/\pm 6^\circ$, 3 levels ($0^\circ/\pm 10^\circ$ in some of exam modes)
 - ✓ ROI/Sample line steer: $0^\circ/\pm 12^\circ/\pm 16^\circ$
 - ✓ Trapezoid imaging: $10^\circ/20^\circ$
 - ✓ Acoustic lens: 37 mm $\times$ 8 mm
 - ✓ Temperature monitoring

- 1012
 - ✓ Application: Vascular, Small parts, Musculoskeletal, Neurology
 - ✓ Frequency range: 4.0 - 16.0 MHz
 - ✓ Width of view: 25 mm
 - ✓ Depth: ≥ 10 cm
 - ✓ B steer: $0^\circ/\pm 6^\circ$ ($0^\circ/\pm 8^\circ$ in some of exam modes)
 - ✓ ROI/Sample line steer: $0^\circ/\pm 16^\circ/\pm 20^\circ$
 - ✓ Trapezoid imaging: $6^\circ/20^\circ$ ($8^\circ/20^\circ$ in some of exam modes)
 - ✓ Acoustic lens: 28 mm $\times$ 10 mm

12 Accessories

12.1 Printer

- Printer types
 - ✓ Color ink jet printer
 - ✓ B/W video printer
 - ✓ Color video printer
- Print type
 - ✓ Video print
 - ✓ Network print
 - ✓ USB print
 - ✓ Windows print
- Video invert
- Add printer

12.2 Built-in Wi-Fi

12.3 Footswitch

- 2 pedals
- Round port connection
- User-defined short-cut keys

12.4 USB Barcode Scanner

- Bar code scanning input
- Bar code scanning search

12.5 DVD R/W Drive

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

12.6 Built-in Battery

- Charging time ≤ 9 h
- Power supply time ≥ 1.5 h

12.7 1T Hard Disk

12.8 ECG Cable

12.9 Double-wing Vagina Dilator

12.10 Coupling Gel Heater

13 Safety and Certification

- Certification: ISO 9001, ISO 13485
- Comply with:
 - ✓ CSA C22.2 No. 601-1,
 - ✓ 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 and IEC 62366
- Certification: ISO 9001, ISO 13485
- 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.

NOTE:

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- The specifications of this system may change without any prior notification.
- Some products or features may not be available in some countries.
- Please contact your local SonoScape sales representative for more information.

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