

SonoScape

E3

A brand new portable ultrasound system E3, brings you a distinct experience with SonoScape's traditional imaging technologies.

E3's accurate B mode and sensitive color signal give crisp, detailed images to improve your scanning experience while increasing your diagnostic confidence.



Excellent Image Quality as Always

C-Field Beam

The continuously dynamic focus provides more energy which contributes to higher contrast resolution, signal-noise ratio and uniformity in the image.

μ -Scan

The latest generation of μ -Scan imaging greatly enhances the image by reducing noise, improving signal strength and improving visualization.

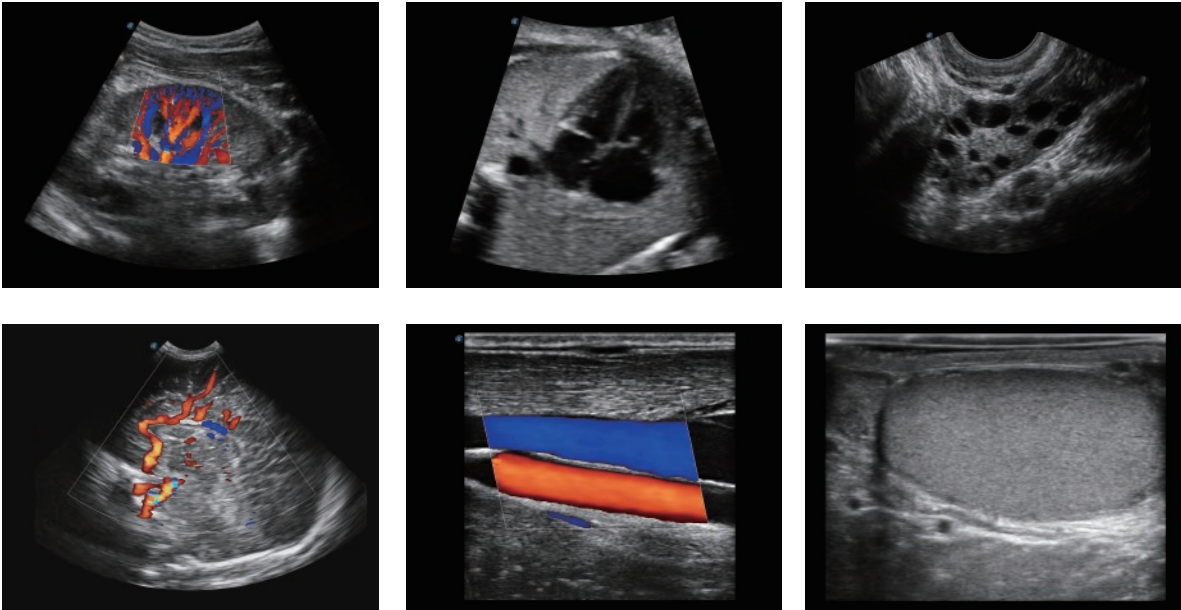
Dynamic Color

With Dynamic Color the sonographers can easily see in detail very small veins and slower velocities for detailed blood flow information of the patient.

Tissue Specification Imaging

The system detects different tissues automatically by matching different acoustic ranges, from which the user can then acquire images with more uniformity and higher spatial resolution.

Wide Range of Probes and Applications



E3 Series Digital Color Doppler Ultrasound System



1 General Specifications

1.1 Applications

- Abdomen
- Cephalic
- OB/Gynecology
- Cardiology
- Peripheral vascular
- Small parts
- Musculoskeletal
- Transvaginal
- Transrectal

1.2 Available Probes

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

1.3 Imaging Modes

- B
- M
- Anatomical M
- ColorM
- CFM
- PDI/DPDI
- PW
- CW
- TDI
- TDI+PW
- TDI+M

1.4 Function and Configuration

- 5-band adjustable frequency in B mode (fundamental wave and harmonic wave)
- μ -scan
- Compound imaging
- LGC (8 bands)
- Tissue specific index
- Image rotation
- Widescan
- HPRF
- Simultaneous mode (Triplex)
- PW auto trace
- Auto IMT
- Scr-Zoom
- B mode panoramic imaging
- Biopsy guide

- Vis-needle
- ECG
- SR Flow
- Show gallery
- Sono-help
- Standby mode

1.5 Available Languages

- Software: English, Simplified Chinese, Spanish, Russian, French, Italian, German and Polish
- Key panel: English, Simplified Chinese, Spanish, Russian, French, Italian, German and Polish
- User manual: English, German, French, Portuguese and Spanish

2 Physical Specifications

2.1 Size and Weight

- Size: approx. 378 mm (W) \times 352 mm (H) \times 114 mm (D)
- Weight: approx. 6.5 kg (including battery)

2.2 Monitor

- 15.6 inch medical high resolution monitor
- Resolution: 1920*1080
- Viewing angle: 178°(horizontal), 178°(vertical)
- Up/down angle: 0° to 45°

2.3 Control Panel

- User-oriented design
- Backlight design: panel buttons
- Multiple defined-keys
- TGC: 8 segment sliders
- Trackball sensitivity: adjustable
- Keyboard on the control panel

2.4 Speaker

Hi-Fi Speaker

2.5 Probe Port and Probe Holder

- Probe port: 3
- Probe holder: 3

2.6 Trolley

- Model: ST-200
- Width: approx. 455 mm
- Depth: approx. 610 mm
- Height: approx. 780 mm (adjusted to the lowest position)

- Lifting height: 0 - 100 mm, 3 levels
- Casters
 - ✓ Diameter: 5 inch
 - ✓ Specification: all the 4 casters can be independently locked
- Front handle: 1
- Cable hanger: 1
- Document basket: 1
- Printer compartment: 1

2.7 Power

- Power supply: 100 - 240V~, 1.5 - 0.75A
- Frequency: 50/60 HZ
- Power output: 180VA

2.8 Working Environment

- Temperature: 0°C to +40°C
- Relative humidity: 30% - 85% RH (no condensation)
- Atmospheric pressure: 700 hPa - 1060 hPa
- System noise: ≤ 55 dB

2.9 Storage and Transportation

Environment

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

3 Annotation and Body Mark

- Annotation can be selected and input in the library
- All exam applications included
- Annotation: text annotation and arrow annotation
- Annotation can be edited and arranged
- User-defined annotation
- Text font size and arrow size: adjustable
- Body marks: ≥ 165 selectable
- 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

- Patient ID, name and date of birth
- Tissue temperature display (specified probe)
- Depth scale and focus position
- Image parameter
- Thumbnail
- Clipboard
- Screen saver

5 Image Parameter

5.1 Description

- System boot up: approx. ≤32 s
- System shut down: approx. ≤17 s
- Grayscale: 256 levels
- Transducer element: up to 128
- Volume: 0 - 100%, 10 levels, 10% each step

5.2 B mode

- Gain: 0 - 255 adjustable
- Scan depth: ≥ 40 cm
- Compound imaging: Off, 1, 2, 3, 4 adjustable, 5 levels
- Frequency: 5 bands adjustable (fundamental wave and harmonic wave)
- Chroma: Off and 12 types selectable, 13 levels
- μScan: Off, 1, 2, 3, 4, 5, 6 levels
- Line density: Min, Low, Med, High, Max, 5 levels for high density probe; Low, Med, High, 3 levels for general probe
- Persistence: Off, Low, Med, High, Max, 5 levels
- Focus: focus position and range adjustable, 21 levels adjustable; 1 represents single focus and 2 - 21 represent focus span control.
- Dynamic range: 20 - 320
- Gray map: 1-16, 16 levels
- Power%: 1 - 100% adjustable, 5% each step
- TSI: adipose, muscle, fluid tissue and normal tissue, 4 levels
- TGC: 8 segment sliders
- LGC: 8 bands adjustable
- Image reverse: left/right, up/down
- Rotation, 0°, 90°, 180°, 270°, 4 levels
- Sector width: 5 levels adjustable
- B steer: 0, ±2°, ±4°, ±6°, 7 levels, linear array image steer
- Widescan: On/Off (linear and convex array probe)

- Auto optimization

5.3 M Mode

- Gain: 0 - 255 adjustable, 5 each step
- Chroma: 13 levels
- Display format: FULL, H1/1, V1/2, V1/1, V2/1
- Sweep speed: Min, Slow, Med, Fast, Max, 5 levels
- Power%: 1% - 100% (associated with B mode)
- ColorM: CFM, TVI

5.4 Anatomical M-mode

- Gray map: 1 - 16, 16 levels
- Chroma: 13 types selectable
- Display 3 sample lines simultaneously
- Angle and position of sample lines adjustable

5.5 CFM Mode

- Gain: 0 - 255 adjustable, 5 each step
- Power%: 1 - 100%, 5% each step
- B reject: 0 - 255 adjustable, 17 each step, 16 levels
- Size and position of color ROI: adjustable
- Image reverse: up/down, left/ right
- Invert: On/Off
- Frequency: 3 levels adjustable
- Wall filter: Min, Low, Med, High, Max, 5 levels
- PRF: 0.5 - 10 KHz (probe dependent)
- Line density: Min, Low, Med, High selectable, 4 levels
- Color map: 6 types of color Doppler selectable
- Baseline: 9 levels
- Persistence: Off, Low, Med, High, Max selectable, 5 levels (probe dependent)
- ROI steer: 0, $\pm 8^\circ$, $\pm 12^\circ$, $\pm 16^\circ$ adjustable (linear array probe)
- Auto optimization

5.6 PDI/DPDI Mode

- Power%: 1 - 100%, 5% each step
- B reject: 0 - 255, 17 each step, 16 levels
- Persistence: Off, Low, Med, High, Max selectable, 5 levels (probe dependent)
- Color map: 1 - 7 adjustable, 7 levels
- Image reverse: up/down, left/right
- Wall filter: Min, Low, Med, High, Max, 5 levels

5.7 PW Mode

- Power%: 1 - 100%, 5% each step
- Gain: 0 - 255 adjustable, 5 each step
- Display format: FULL, H1/1, V1/2, V1/1, V2/1, 5 levels
- Simultaneous mode (Triplex)
- PW sample volume: 0.5 - 24.0 mm
- PW sample position: adjustable
- Invert: On/Off
- Quick angle correction: 0° , 60° , -60°
- Angle correction range: -88° to 88° , 2° each step
- Steer angle: 0, $\pm 8^\circ$, $\pm 12^\circ$, $\pm 16^\circ$ adjustable (linear array probe)
- Doppler auto trace: achievable in real-time mode and frozen mode
- Baseline: 9 levels selectable
- Frequency: 3 levels adjustable
- Wall filter: Min, Low, Med, High, Max, 5 levels
- PRF: 1 - 16 KHz
- HPRF
- Max. velocity range: 0 - 12.3 m/s (3P-A, PRF=16 KHz, $\theta=60^\circ$, frequency= 2.0 MHz, the lowest baseline)
- Sweep speed: Min, Slow, Med, Fast, Max, 5 levels
- Chroma: 13 types selectable

5.8 CW Mode

- Power%: 1 - 100%, 5% each step
- Gain: 0 - 255 adjustable, 5 each step
- Display format: FULL, H1/1, V1/2, V1/1, V2/1, 5 levels
- CW sample position: adjustable
- Invert: On/Off
- Angle correction range: -88° to 88° , 2° each step
- Doppler auto trace: achievable in real-time mode and frozen mode
- Baseline: 9 levels selectable
- Wall filter: Min, Low, Med, High, Max, 5 levels
- PRF: 1 - 50 KHz (3P-A probe)
- Max. velocity range: 0 - 42.7 m/s (3P-A, PRF=50 KHz, $\theta=60^\circ$, frequency=1.8 MHz, the lowest baseline)
- Sweep speed: Min, Slow, Med, Fast, Max, 5 levels

- Chroma: 13 levels

5.9 TDI Mode

- Tissue speed imaging and tissue Doppler power imaging
- Power%: 1 - 100%, 5% each step
- Frequency: 3 levels adjustable
- PRF: 0.5 - 10 KHz
- Flow reject: 0 - 255, 17 each step, 16 levels
- Line density: Low, Med, High selectable, 3 levels
- Color map: 1 - 5 for tissue speed map, 6 -10 for tissue Doppler power map, 10 levels
- Color baseline adjustment: 9 levels adjustable
- Size and position of color ROI: adjustable
- Invert: On/Off

5.10 TDI+PW Mode

- PRF: 0.5 - 4.5 KHz
- Max velocity range: 0 - 3.2 m/s (3P-A, PRF=4.5 KHz, $\theta=60^\circ$, the lowest baseline, SVD=0.1 cm, FRQ=2.4 MHz)

5.11 TDI+M Mode

- Gain: 0 - 255 adjustable, 5 each step
- Chroma: 13 levels
- Display format: FULL, H1/1, V1/2, V1/1, V2/1, 5 levels
- Sweep speed: Slow, Med, Fast, Max, 4 levels

5.12 Panoramic Imaging

- Available probes: L741, 3C-A, C613, EC9-5, 10I2, C322, 9L-A
- B mode panoramic imaging
- Rotation: 180° to -180°
- Zoom ratio: 8.0 times
- Maximum available length: 1000 mm

5.13 Biopsy Guide

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

5.14 Vis-needle

- Available probe: L741, 10I2

- Steer angle: 20° to 50° , 10° each step, 4 levels
- Biopsy depth: adjustable
- Dual live

5.15 Widescan

- Widescan: Off, On
- Available probe: linear array probe, convex array probe

5.16 Zoom

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

5.17 Sono-help

- Applications: Liver, Kidney, Spleen, Biliary system, Uterine adnexa, Obstetrics, Cardiac, Artery and Vein, Thyroid, Breast and Prostate and testicle
- Available for 82 slices
- Available for probe position, slice figure and ultrasound image display
- User defined key

5.18 Preset Exam

- Preset optimal exam mode and parameter for different probes and exam types
- Preset order: adjustable
- Import or export preset
- After normal update, the preset parameters are not cleared.

6 Measurement/Analysis and Report

6.1 Measurement Settings

- BSA setting: Eastern, Western
- Cross cursor size: Large, Medium, Small
- Measure line size: Large, Medium, Small
- 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: Large, Medium, Small
- Result position: Top Right, Top Left, Bottom Left and Bottom Right adjustable in 2D or M+D 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

- Application-specific measurement report
 - ✓ Fetal growth curves
- Measurement values: editable
- Value method: single value switch achievable
- Image insertion
- Report preview
- Report logo (170 x 60 Pixel, bmp): changeable
- Report font size and color settings
- Background color settings
- Display item settings
- Export format: TXT, PDF, HTML

6.4 Auto Measurement

Auto IMT

7 Storage and Data Management

7.1 Storage

- Hard disk storage: 1T
- 2D cine storage time setting:
 - ✓ Retrospective storage: 1 - 120 s
 - ✓ Prospective storage: 1 - 480 s
 - ✓ Freeze storage: 1 - 170 s

7.2 Data Management

- Image 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
 - ✓ Report format: PDF, TXT, HTML
 - ✓ DICOM 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 Cine Review

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

9 System Input and Output

9.1 I/O Port

- USB port
 - ✓ USB 3.0: 3
- Video output port: 3
 - ✓ VIDEO OUT
 - ✓ S-VIDEO OUT
 - ✓ HDMI OUT
- AUDIO output port: 1
 - ✓ AUDIO OUT
- Foot switch input: 1
- Ethernet port: 1
- Video print port: 1

9.2 Network Connection

- Local network
 - ✓ Local network: Enable/Disable
 - ✓ DHCP or static IP
 - ✓ Static IP: IP, netmask and default gateway settings
 - ✓ MAC address check
- Ping IP Address
- Wireless network
 - ✓ Wireless network: Enable/Disable
 - ✓ Authentication method: WEP, WPA-PSK, WPA-EAP
 - ✓ DHCP or static IP
 - ✓ Static IP: IP, netmask and default gateway settings
 - ✓ MAC address check

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 list

11 Probe

11.1 Convex Array Probe

- 3C-A
 - ✓ Application: Abdomen, Gynecology and Obstetrics
 - ✓ Frequency range: 1.0 - 7.0 MHz
 - ✓ Central frequency: 3.2 MHz
 - ✓ Curvature radius: 50 mm
 - ✓ Acoustic lens: 60 mm × 18 mm
 - ✓ Biopsy bracket: NGB3C-A, 12°/16.5°/22.5°/33.5°, disinfectable
 - ✓ Field of view: 60°
 - ✓ Widescan: 15°
 - ✓ Depth: ≥ 40 cm
- C613
 - ✓ Application: Cardiology, Abdomen and Pediatric Cardiology
 - ✓ Frequency range: 4.0 - 13.0 MHz
 - ✓ Central frequency: 6.0 MHz
 - ✓ Curvature radius: 14 mm
 - ✓ Acoustic lens: 30 mm × 10 mm
 - ✓ Biopsy bracket: NGBC613, 12°/18°/30°, disinfectable
 - ✓ Field of view: 92°
 - ✓ Widescan: 15°
 - ✓ Depth: ≥ 15 cm
- 6V1
 - ✓ Application: Gynecology
 - ✓ Frequency range: 3.0 - 15.0 MHz
 - ✓ Curvature radius: 11 mm
 - ✓ Acoustic lens: 32 mm × 10 mm
 - ✓ Biopsy bracket: NGB6V1, 3°, disinfectable
 - ✓ Field of view: 135°
 - ✓ Widescan: 15°
 - ✓ Depth: ≥ 15 cm
- EC9-5
 - ✓ Application: Prostate
 - ✓ Frequency range: 3.0 - 15.0 MHz
 - ✓ Curvature radius: 8 mm
 - ✓ Acoustic lens: 27 mm × 10 mm
 - ✓ Biopsy bracket: NGBEC9-5, 1.5°, disinfectable
 - ✓ Field of view: 146°
 - ✓ Widescan: 15°
 - ✓ Depth: ≥ 15 cm
- 6CT-A
 - ✓ Application: Abdomen
 - ✓ Frequency range: 3.0 - 15.0 MHz
 - ✓ Curvature radius: 40 mm

- ✓ Acoustic lens: 35 mm × 9 mm
- ✓ Field of view: 44°
- ✓ Widescan: 15°
- ✓ Depth: ≥ 20 cm
- C322
 - ✓ Application: Abdomen
 - ✓ Frequency range: 2.0 - 7.0 MHz
 - ✓ Curvature radius: 20 mm
 - ✓ Acoustic lens: 32 mm × 11 mm
 - ✓ Field of view: 68°
 - ✓ Widescan: 15°
 - ✓ Depth: ≥ 30 cm

11.2 Linear Array Probe

- L741
 - ✓ Application: Peripheral Vascular, Superficial and Small Parts
 - ✓ Frequency range: 4.0 - 16.0 MHz
 - ✓ Acoustic lens: 49 mm × 10 mm
 - ✓ Biopsy bracket: NGBL741, 45°/55°/63°, disinfectable
 - ✓ Width of view: 46 mm
 - ✓ Depth: ≥ 11 cm
 - ✓ B steer: 0°/±2°/±4°/±6°, 7 levels
 - ✓ ROI/sample line steer: 0°/±8°/±12°/±16°
 - ✓ Widescan: 10°
- 9L-A
 - ✓ Application: Peripheral Vascular, Superficial and Small Parts
 - ✓ Frequency range: 2.0 - 13.0 MHz
 - ✓ Acoustic lens: 42 mm × 9 mm
 - ✓ Biopsy bracket: NGB9L-A, 38°/47°/59°, disinfectable
 - ✓ Width of view: 35 mm
 - ✓ Depth: ≥ 11 cm
 - ✓ B steer: 0°/±2°/±4°/±6°, 7 levels
 - ✓ ROI/sample line steer: 0°/±8°/±12°/±16°
 - ✓ Widescan: 10°
- 10I2
 - ✓ Application: Peripheral Vascular, Superficial and Small Parts
 - ✓ Frequency range: 4.0 - 16.0 MHz
 - ✓ Acoustic lens: 28 mm × 10 mm
 - ✓ Width of view: 25 mm
 - ✓ Depth: ≥ 11 cm
 - ✓ B steer: 0°/±2°/±4°/±6°, 7 levels
 - ✓ ROI/sample line steer: 0°/±8°/±12°/±16°
 - ✓ Trapezoid imaging : 10°

11.3 Phased Array Probe

- 3P-A
 - ✓ Application: Cardiology
 - ✓ Frequency range: 1.0 - 6.0 MHz
 - ✓ Acoustic lens: 25 mm × 16 mm
 - ✓ Field of view: 90°
 - ✓ Depth: ≥ 30 cm
- 7P-B

- ✓ Application: Pediatric Cardiology
- ✓ Frequency range: 2.0 - 9.0 MHz
- ✓ Acoustic lens: 21 mm × 12 mm
- ✓ Field of view: 90°
- ✓ Depth: ≥ 20 cm

11.4 Other Probes

- CWD2.0
 - ✓ Application: Cardiology and Vascular
 - ✓ Transducer element: 2

12 Accessories

12.1 Printer

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

12.2 Foot Switch

- 2 pedals
- USB port and round port connection
- User-defined short-cut keys

12.3 USB Bar Code Scanner

- Bar code scanning input
- Bar code scanning search
- Export patient data to DVD drive
- Import patient data from DVD drive

12.4 Built-in Battery

13 Safety and Certification

- Comply with:
 - ✓ IEC 60601-1, Class I BF
 - ✓ IEC 60601-1-2, Group 1, Class B
 - ✓ IEC 60601-2-37

NOTE:

- 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.

Мед Импорт Монгол ХХК

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