SonoSite Edge II

RUGGED.
RELIABLE.
RESPONSIVE.
The SonoSite Edge II Ultrasound System offers you an enhanced imaging experience through industry-first transducer innovations like DirectClear and Armored Cable Technology. And, because it is a SonoSite, the Edge II stays true to our design pillars of durability, reliability and ease of use.
DirectClear Technology is a novel, patent-pending process that elevates transducer performance:

• Improved penetration and contrast resolution: Unlike conventional SonoSite transducers, a more efficient material has been embedded into the design that allows for the generation of more acoustic signal. In parallel, a reflective layer has been added to reduce the loss of this signal, as it is transmitted into the patient.

• Sharpened detail resolution: An additional layer has been added to provide a better acoustic match between the transducer and the patient, increasing the ability to resolve small structures and aid in your diagnostic confidence.

ELEVATED COLOR SENSITIVITY

Through a dualflex and thin lens design, combined with new advancements in image optimization, the HFL38xi was enhanced to increase penetration, clarity and color sensitivity. You can now better visualize nerves and vessels, whether it be for procedural guidance or flow analysis.
TAKING TRANSDUCER DURABILITY TO THE ARMORED LEVEL

How often do transducer cables get rolled over, stepped on or twisted? Talking to our customers, the response is “all the time,” “too often to count,” or simply “a lot.”

With an embedded metal jacket, armored cables protect your transducers from these common scenarios. By safeguarding electrical connections inside, armored cables help maintain image quality over the life of your transducer.

ULTRASOUND FOR CLARITY AND CONFIDENCE.

Wide-angle, full-bleed glass display with anti-reflection etch for minimal adjustments during viewing

Keypad sealed to the edge to inhibit liquid ingress

Easy-to-use interface for intuitive access to frequently used functions like gain control

Low-profile keys with snap-dome technology for easy cleaning and tactile feedback
**SONOSITE EDGE II TRANSDUCERS**

<table>
<thead>
<tr>
<th>Transducer</th>
<th>Frequency</th>
<th>Applications</th>
<th>Scan Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>L38xi</td>
<td>10-5 MHz Linear</td>
<td>lung, nerve, small parts, arterial, venous</td>
<td>9 cm</td>
</tr>
<tr>
<td>HFL38xi</td>
<td>13-6 MHz Linear</td>
<td>breast, lung, musculoskeletal, nerve, ophthalmic, small parts</td>
<td>6 cm</td>
</tr>
<tr>
<td>HFL50x</td>
<td>15-6 MHz Linear</td>
<td>breast, musculoskeletal, nerve, small parts</td>
<td>6 cm</td>
</tr>
<tr>
<td>L25x</td>
<td>13-6 MHz Linear</td>
<td>lung, musculoskeletal, nerve, superficial, arterial, venous, ophthalmic</td>
<td>6 cm</td>
</tr>
<tr>
<td>HFL50x</td>
<td>15-6 MHz Linear</td>
<td>breast, musculoskeletal, nerve, small parts</td>
<td>6 cm</td>
</tr>
<tr>
<td>L25x</td>
<td>13-6 MHz Linear</td>
<td>lung, musculoskeletal, nerve, superficial, arterial, venous, ophthalmic</td>
<td>6 cm</td>
</tr>
<tr>
<td>C11x</td>
<td>8-5 MHz Curved</td>
<td>abdominal, neonatal, nerve, arterial, venous, cardiology (vet)</td>
<td>13.5 cm</td>
</tr>
<tr>
<td>rC60xi</td>
<td>5-2 MHz Curved</td>
<td>abdominal, musculoskeletal, nerve, ob, gyn</td>
<td>30 cm</td>
</tr>
<tr>
<td>ICTx</td>
<td>8-5 MHz Curved</td>
<td>ob, gyn</td>
<td>13 cm</td>
</tr>
<tr>
<td>rP19x</td>
<td>5-1 MHz Phased</td>
<td>abdominal, cardiology, lung, ob, orbital, TCD</td>
<td>35 cm</td>
</tr>
<tr>
<td>P10x</td>
<td>8-4 MHz Phased</td>
<td>ped. abdominal, ped. cardiology, neonatal head</td>
<td>14 cm</td>
</tr>
<tr>
<td>HSL25x</td>
<td>13-6 MHz Linear</td>
<td>lung, musculoskeletal, nerve, superficial, arterial, venous, ophthalmic</td>
<td>6 cm</td>
</tr>
<tr>
<td>C8x</td>
<td>8-5 MHz Curved</td>
<td>prostate</td>
<td>11.5 cm</td>
</tr>
<tr>
<td>P11x</td>
<td>10-5 MHz Phased</td>
<td>venous, vascular</td>
<td>12 cm</td>
</tr>
</tbody>
</table>

- **DirectClear Technology.**
- **Optional Armored Cable.**
- **Needle guides and kits available.**
- **A transverse needle guide available.**
**SYSTEM SPECIFICATIONS**

**System weight**: 9.21 lbs/4.18 kg with battery
**Dimensions**: 12.8" x 12.8" x 2.5" / 32.6 cm x 30.7 cm x 6.4 cm (L x W x H)
**Display**: 12.1"/30.7 cm diagonal LCD (NTSC or PAL) with chemically-etched glass layer
**Viewing Angles**: 85 degrees up/down/left/right
**Architecture**: All-digital broadband
**Dynamic range**: Up to 165 dB
**Gray scale**: 256 shades
**HIPAA compliance**: Comprehensive tool set

**IMAGING MODES**

2D / Tissue Harmonic Imaging / M-Mode
Velocity Color Doppler / Color Power Doppler
PW, PW Tissue Doppler and CW
Doppler angle, correct after freeze

**IMAGE PROCESSING**

SonoADAPT™ Tissue Optimization
SonoHD2™ Imaging Technology
Dual Imaging, Duplex Imaging, 2x pan/zoom capability, Dynamic range and gain
ColorHD™ Technology

**STEEP NEEDLE PROFILING**

C35x – Nerve, MSK, Spine
HFL38x – Nerve, MSK, Breast, Small Parts
HFL50x – Nerve, MSK, Breast, Small Parts
L25x – Nerve, MSK, Arterial, Venous
HSL25x – Nerve, MSK, Arterial, Venous
L38xi – Nerve
rc60xi – Nerve, MSK

**USER INTERFACE AND REMAPPABLE CONTROLS**

Softkeys to drive advanced features
Programmable A and B keys: each can be assigned by the user for increased ease of use
Low profile keyboard, sealed completely to edge for maximum infection control
Track pad with select key for easy operation and navigation
Doppler controls: angle, steer, scale, baseline, gain and volume
Image acquisition keys: review, report, clip store, save
Dedicated AutoGain and exam keys to allow quick activation
Color controls: size/position, angle, scale, baseline and invert

**TRANSUCERS**

Broadband/Multifrequency:
DirectClear Technology (C60xi, rP19x)
Armored Cable Technology (Optional on rC60xi, rP19x, L38xi, L52x)
Linear Array, Curved Array, Phased Array, Multiplane TEE and Micro-Convex
Center line marker for linear transducers

**Exam types**: abdominal, breast, cardiology, gyn, lung, musculoskeletal, neonatal, nerve, ob, ophthalmic, orbital, small parts, spine, superficial, TCD, arterial, venous

**DURABILITY**

Drop-tested at 3 feet/91.4 cm

**APPLICATION SPECIFIC CALCULATIONS**

**OB/Gyn/Fertility**: Diameter/ellipse measurements, volume, ten follicle measurements, estimated fetal weight, established due date, gestational age, last menstrual period, growth charts, user-defined tables, multiple user-selectable authors, ratios, amniotic fluid index, patient report, humerus and tibia measurement and charts, HR, Fetal HR, MCA, UMBA, Ovarian Volume, Follicle Volume, Uterine Volume, Endometrial thickness
**Arterial**: Diameter/ellipse/trace measurements, volume, volume flow, percent diameter and area reduction, L/Ht CCA, ICA, ECA, ICA/CCA ratio, peak trace, ICA/CCA ratio, patient report, HR, Bulb, Vertebral Artery, TAP
**Cardiac**: LVO, Automated Cardiac Output package and patient report including: ventricular, aortic and atrial measurements; ejection fraction, volume measurements, Simpson’s rule, continuity equation, pressure half-time and cardiac output; IVC Collapse Ratio, LA/RA Volume, TAPSE, PA AT, TV E, A, PHT, TVI, MV time, Puls Veins, LV Mass, TVI e’, TVI a’, HR, dP/dt, Qt/Qs
**Ability to view EF and FS simultaneously**

**ONBOARD IMAGE AND CLIP STORAGE/REVIEW**

16GB internal flash memory storage capability
Storage support for up to 500 patients
Clip Store capability (maximum single clip length: 60 seconds)
Clip Store capability via either number of heart cycles (using the ECG) or time base. Maximum storage in ECG beats mode is 10 heart cycles. Maximum storage in time base mode is 60 seconds
Start/Stop toggle capability for clips
USB Auto Export
Encryption of patient data on system
Cine review up to 255 frame-by-frame images

**MEASUREMENT TOOLS, PICTOGRAMS AND ANNOTATIONS**

**2D**: Distance calipers, ellipse and manual trace
**Doppler**: Velocity measurements, pressure half time, auto and manual trace
**M-Mode**: Distance and time measurements, heart rate calculation
**User-selectable text and pictograms**

**User-defined, application-specific annotations**

**Biopsy guidelines**

**CONNECTIVITY**

**EXTERNAL DATA MANAGEMENT**

SonoSite Patient Data Archival Software (PDAS) for Wireless/Wired Image, Report Management
Q-path ultrasound management system
DICOM® Image Management (TCP/IP): Print and Store, Modality Work List, Storage Commit: Modality, Perform, Procedure Step
PC Workstation Image Management (TCP/IP, USB): Direct writing capability to USB 2.0 mass storage removable media (PC and MAC compatible)
Supported export formats: MPEG-4 (H.264), JPEG, BMP, and HTML

**CONNECTIVITY (SYSTEM PORTS)**

Ports, External Video/Audio:
USB ports (2)
ECG input (1)
Integrated Speakers

With Mini-dock:
S-Video (in/out) to VCR for record and playback
DVI output
Composite video output (NTSC/PAL) to VCR or video printer
Audio output
Ethernet or Wireless Image/Data Transfer
USB Port (1)
RS-232 Transfer

**POWER SUPPLY**

System operates via battery or AC power
Rechargeable lithium-ion battery
AC: universal power adapter, 100–240 VAC, 50/60 Hz input, 15 VDC output
Less than 25 sec. from power-on to scanning

**EDGE II STAND AND PERIPHERALS**

Mini-dock, transducer and gel holders
AC Cord Retainer
Larger baskets with easy removal feature for cleaning
Casters to prevent accidental locking
Optional Triple Transducer Connect (TTC) to quickly activate transducers electronically
Optional foot switch
Optional PowerPack and PowerPack

**OPTIONAL PERIPHERALS**

Printers: Medical-grade black and white or color
**External data input devices**: Bar code reader
**ECG Slave Cable and Adapter Kit**: Used to interface with external ECG monitors

**ECG module**: 3-lead ECG – works with standard ECG leads and electrodes

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