



MICROMAXX™

SonoSite Transducer Technology

The MicroMaxx™ system offers a wide range of transducers for multiple clinical applications.

These transducers are designed with broadband signal processing, which provides access to more information by transmitting and receiving through a broader bandwidth of frequencies. This technology allows a single transducer to image over a greater range of depths, expanding clinical utility. Unique in the industry, SonoSite transducers yield an uptime of greater than 99.9% per year.

Surgical Suite of MicroMaxx Transducers



SLT	SLA	C60e	L38e	HFL38
52-mm broadband linear array	26-mm broadband linear array	60-mm broadband curved array	38-mm broadband linear array	38-mm broadband linear array
Frequency Range: 10-5 MHz	Frequency Range: 13-6 MHz	Frequency Range: 5-2 MHz	Frequency Range: 10-5 MHz	Frequency Range: 13-6 MHz
Weight: 0.42 kg	Weight: 0.47 kg	Weight: 0.46kg	Weight: 0.46 kg	Weight: 0.48 kg
Part Number: P05180	Part Number: P05174	Part Number: P05483	Part Number: P05482	Part Number: P05697
Major applications	Major applications	Major applications	Major applications	Major applications
Intraoperative scanning of sub-diaphragmatic organs	Peripheral vascular, musculoskeletal and superficial small parts	Abdominal, obstetrics and gynecology Biopsy guide available	Small parts, breast, vascular, nerve, IMT, musculoskeletal, superficial imaging Biopsy guide available	Small parts, breast, vascular, nerve, IMT, musculoskeletal, superficial imaging Biopsy guide available

MicroMaxx™ System Specifications

System Specifications:

Weight	8.4 lb (3.8 kg) (one transducer attached)
Dimensions	11.8" L x 10.8" W x 3.1" H (30.2 cm L x 27.7 cm W x 8.0 cm H)
Display	10.4" (26.4 cm) diagonal LCD (NTSC or PAL)
Architecture	All-digital broadband
Number of channels	128 channels
Dynamic range	Up to 165 dB
Gray scale	256 shades
HIPAA compliance	Comprehensive tool set

Imaging Modes and Processing:

2D/velocity color Doppler/color power Doppler/M-mode/PW and CW Doppler
Dual imaging

M-mode/Duplex Imaging:

3 sweep speeds
1/2:1/2, 1/3:2/3 and full-screen options
2X pan/zoom

Tissue Harmonic Imaging
Broadband, multifrequency imaging
1-8 focal zones

Image Processing:

Compression, contrast enhancement, persistence, dynamic range and gain

Scanning Formats (broadband, multifrequency transducers):

Linear Array, Curved Array, Phased Array, Multiplane TEE

User Interface and Remappable Controls:

- Softkeys to drive advanced features
- Delta key: user-assigned functions for increased ease of use
- Alphanumeric QWERTY keyboard
- Track pad with select key for easy operation and navigation
- Doppler/M-mode controls: angle, steer, scale, baseline, gain and volume
- Image acquisition keys: review, report, VCR, clip store, save

Application Specific Calculations:

OB/Gyn/Fertility:

Diameter/ellipse measurements, volume, six 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

Vascular:

Diameter/ellipse/trace measurements, volume, volume flow, percent diameter and area reduction, Lt/Rt CCA, ICA, ECA, ICA/CCA ratio, time average mean (TAM), peak trace, user-defined ratio, angle correction, patient report

IMT (Intima-Media Thickness):

Automatic edge detection
Patient report

Cardiac:

Complete cardiac calculations 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

Onboard Image and Clip Storage/Review:

Store up to 10,000 images with a 1 GB CompactFlash card
Cine: review up to 220 frame-by-frame images
Store up to 700 clips with a 4 GB CompactFlash card

External Data Management:

DICOM Image Management (Ethernet interface)

Print and Store
Modality Work List

PC Workstation Image Management (Ethernet or USB interface)

SiteLink Image Manager – allows transfer, archiving, viewing and printing of high-resolution bitmap images, and batch compression to JPEG on PCs

Measurement Tools, Body Markers and Annotations:

2D

Distance calipers
Ellipse for area and circumference measurements

Doppler

Velocity measurements, RI & S/D ratio
Volume flow calculation

M-mode

Distance and time measurements
Heart rate calculation

User-selectable text and body markers

Application-specific text via function keys

Biopsy guidelines

External Video and Audio (requires an MDS, MDS Lite or separate minidock):

- S-video (in/out) to VCR or DVD for record and playback
- RGB output to external LCD display
- Composite video output (NTSC/PAL) to VCR, video printer or external LCD display
- Audio output
- Integrated speakers

Power Supply:

System operates via battery or AC power – from 1.5 up to 4 hours on fully charged battery
Rechargeable lithium-ion battery
AC: universal power adapter, 100-240 VAC, 50/60 Hz input, 15 VDC output

Mobile Docking Stations and Peripherals:

MDS – Convenient Workstation:

Storage for fully integrated printer, VCR and/or DVD
Transducer holder and storage
Optional Triple Transducer Connect allows the user to quickly activate transducers electronically
Optional 12.1" (30.7 cm) (diagonal) monitor

MDS Lite – Convenient Workstation:

Storage for fully integrated printer, VCR or DVD
Transducer holder and storage
Optional Triple Transducer Connect allows the user to quickly activate transducers electronically

Printers:

Medical-grade black and white or color

External storage devices:

Medical-grade VCR or DVD

ECG module:

3-lead ECG – works with standard ECG leads and electrodes



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