



## System Specifications:

System weight

30.2 cm L x 27.4 cm W x 7.9 cm H Dimensions 26.4 cm diagonal LCD (NTSC or PAL) Display

Architecture All-digital broadband **Number of channels** Dynamic range Up to 165 dB **Gray scale** 256 shades

**HIPAA** compliance Comprehensive tool set

# Imaging Modes and Processing:

Broadband, multifrequency imaging: 2D / Tissue Harmonic Imaging / M-mode Velocity Colour Doppler / Colour Power Doppler PW, PW Tissue Doppler and CW

Image processing: SonoADAPT™ Tissue Optimisation SonoHD™ Imaging Technology SonoMB™ Multi-beam Technology **Dual** imaging Duplex imaging

2x pan/zoom capability Dynamic range and gain

# Transducers:

Broadband and multifrequency:

Linear Array, Curved Array, Phased Array, Multiplane TOE/TEE and Micro-Convex Single frequency:

Cardiac Static Pencil

# 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
- Alphanumeric QWERTY keyboard
- Track pad with select key for easy operation and navigation
- Doppler controls: angle, steer, scale, baseline, gain and volume
- Image acquisition keys: review, report, VCR, Clip Store, DVD, save
- Dedicated AutoGain and exam keys to allow quick activation

# **Application Specific Calculations:**

# OB/Gyn/Fertility:

Diameter/ellipse measurements, volume, six follicle measurements, estimated foetal weight, established due date, gestational age, last menstrual period, growth charts, user-defined tables, multiple user-selectable authors, ratios, amniotic fluid index,

# 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, ICA/CCA ratio, angle correction, patient report

# IMT (Intima Media Thickness):

Embedded SonoCalc® IMT software (optional) – automatic edge detection with mean and maximum thickness reporting

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; PA AT, TV E, A, PHT, TVI, MV time, Pulm Veins

# Transcranial Doppler (TCD):

Complete TCD package including Time Average Peak (TAP)

# Onboard Image and Clip Storage/Review:

8GB internal Flash memory storage capability

Potential to store 64.000 images or 1.066 2-second clips

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.

Cine review up to 255 frame-by-frame images

# 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











### External Data Management and Wireless:

### DICOM® Image Management (TCP/IP):

Print and Store Modality Work List

# PC Workstation Image Management (TCP/IP, USB or Flashcard reader):

SiteLink™ Image Manager — allows transfer, archiving, viewing and printing of high resolution bitmap images/clips, and batch compression to JPEG on PCs Direct writing capability to USB 2.0 mass storage removable media (PC and MAC compatible)

Supported export formats are: MPEG4 (H.264), JPEG, BMP, and HTML

#### Wireless Solutions:

SonoRoam™ Technology with 802.11 b/g USB wireless adapter SonoRemote<sup>™</sup> Control – Bluetooth® wireless technology

# 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

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

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

# Mobile Docking Stations (MDS) and Peripherals:

# MDSm - Convenient Workstation:

- Storage for fully integrated printer or DVD
- Transducer holder and storage
- Optional Triple Transducer Connect (TTC) allows the user to quickly activate transducers electronically
- Optional foot switch
- Optional 38 cm (diagonal) DVI monitor

# MDS Lite - Convenient Workstation:

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

Printers: Medical-grade black and white or colour External storage devices: Medical-grade DVD External data input devices: Bar code reader

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

External analog ECG input also available

USB bar code reader



The M-Turbo® ultrasound system offers a range of transducers with broadband signal processing capabilities to access critical diagnostic information and provide procedural guidance across multiple clinical applications. M-Turbo transducers are compatible with the specialised S Series™ of products. With a fluid resistant membrane for safe cleaning, and the ability to

5

withstand the impact of a 1 metre drop, you can depend on the M-Turbo and S Series systems in the most demanding of situations and environments. Both systems are covered by the same industry-leading 5-year warranty.

Transducer	Applications	Bandwidth	Scan Depths	Biopsy Kit
L38x	Breast, small parts, vascular, IMT, nerve, venous	10-5 MHz 38-mm broadband linear array	9 cm	Available
HFL38x	Breast, small parts, vascular, musculoskeletal, IMT, nerve, venous	13-6 MHz 38-mm broadband linear array	6 cm	Available
L25x	Musculoskeletal, vascular, nerve, superficial, venous, ophthalmic	13-6 MHz 25-mm broadband linear array	6 cm	Transverse Guide Available
C11x	Abdominal, neonatal, nerve, vascular	8-5 MHz 11-mm broadband curved array	10 cm	NA
C60x	OB, gyn, abdominal, nerve	5-2 MHz 60-mm broadband curved array	30 cm	Available
ICTx	OB, gyn	8-5 MHz 11-mm broadband tightly curved array	10 cm	Available
P21x	Abdominal, OB, cardiology, TCD, orbital	5-1 MHz 21-mm broadband phased array	35 cm	N/A
P10x	Paediatric cardiology, abdominal, neonatal head	8-4 MHz 10-mm broadband phased array	14 cm	Available
SLAx	Vascular, musculoskeletal, venous superficial, nerve	13-6 MHz 25-mm broadband linear array	6 cm	NA
TOEx/TEEx	Adult cardiology	8-3 MHz Multiplane transoesophageal 180 degree rotation of the imaging plane, providing a 360 degree field of view	18 cm	NA
D2x	Cardiology (CW)	2 MHz Pencil Transducer, Pedof CW	NA	NA



# SonoSite Ltd

European Headquarters

Alexander House, 40A Wilbury Way, Hitchin, Herts SG4 0AP, United Kingdom Tel: +44 1462-444800 Fax: +44 1462-444801 E-mail: europe@sonosite.com

# SonoSite, Inc.

Worldwide Headquarters 21919 30th Drive SE, Bothell, WA 98021-3904 Tel: +1 (425) 951-1200 or +1 (877) 657-8050 Fax: +1 (425) 951-6800 E-mail: admin@sonosite.com

# SonoSite Worldwide Offices

SonoSite Australasia Pty Ltd - Australia 1300-663-516 - New Zealand 0800-888-204 SonoSite KK - Japan +81 3-5304-5337 SonoSite SARL - France +33 1-69-18-96-30 SonoSite GmbH - Germany +49 91-31-97-79-29-0 SonoSite India Pvt Ltd - India +91 124-288-1100 SonoSite Iberica SL - Spain +34 91-640-49-11 SonoSite Ltd - China - Shanghai +86 21-5239-6693 SonoSite Canada Inc. - Canada +1 888-554-5502 SonoSite Ltd - United Kingdom +44 1462-444800 SonoSite Italy S.r.l. - Italy +39 02-98490885