



THE M-TURBO® ULTRASOUND SYSTEM FROM SONOSITE

SYSTEM SPECIFICATIONS:

System weight	6.7 lbs./3.04 kg
Dimensions	11.9" x 10.8" x 3.1" / 30.2 cm x 27.4 cm x 7.9 cm (L x W x H)
Display	10.4"/26.4 cm diagonal LCD (NTSC or PAL)
Architecture	All-digital broadband
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 Color Doppler / Color Power Doppler
- PW, PW Tissue Doppler and CW
- Doppler angle, correct after freeze

Image processing:

- SonoADAPT™ Tissue Optimization
- SonoHD™ Imaging Technology
- Advanced Needle Visualization (SonoMBe™ Imaging)
- Dual Imaging, Duplex Imaging, 2x pan/zoom capability, Dynamic range and gain

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 elastomeric 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, Clip Store, DVD, save
- Dedicated AutoGain and exam keys to allow quick activation

TRANSDUCERS:

Broadband and Multifrequency:

- Linear Array, Curved Array, Phased Array, Multiplane TEE and Micro-Convex

Single Frequency:

- Cardiac Static Pencil

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

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

CIMT (Carotid Intima Media Thickness):

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

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

Transcranial Doppler (TCD): Complete TCD package including Time Average Peak (TAP)



M-TURBO®

SYSTEM SPECIFICATIONS



ONBOARD IMAGE AND CLIP STORAGE/REVIEW:

- 8GB internal Flash memory storage capability
Potential to store 30,000 images or 960 2-second clips
- 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
- 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

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 DATA MANAGEMENT AND WIRELESS:

- **DICOM® Image Management (TCP/IP):**

Print and Store, Modality Work List

- **Storage Commit:**

Modality, Perform, Procedure Step

- PC Workstation Image Management (TCP/IP, USB):

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: MPEG-4 (H.264), JPEG, BMP, and HTML

SonoSite® Education Key™ training video compatible

- SonoSite Workflow Solutions (SWS™):

A suite of specialized tools to streamline exam management for billing, credentialing, EMR and image archiving

EXTERNAL VIDEO AND AUDIO:

- 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

H-UNIVERSAL™ STAND AND PERIPHERALS:

- Transducer and gel holders
- Optional Triple Transducer Connect (TTC) to quickly activate transducers electronically
- Optional foot switch
- Optional 15" (diagonal) DVI monitor

OPTIONAL PERIPHERALS:

Printers: Medical-grade black and white or color

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

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