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1. SERVICE: SURGICAL
2. SECTION: ORTHOPEDICS

## TECHNOLOGY

Our most versatile system, for abdominal, nerve, vascular, cardiac, venous access, pelvic, and superficial imaging. The new M-Turborm ultrasound tool comes with SonoHDTM imaging technology, enhanced color flow and soon an optional new SonoRemoteTu control. The M-Turbo has 16 times the processing power of our previous generation and still weighs under 7 pounds. As always, it comes with our unparalleled 5-year warranty. Drop-tested from three feet. Boots in seconds from a cold start. Simple-to-use, because you're a physician, not a sonographer. Even a sealed, fluid-resistant interface for thorough disinfection.

## SEE HOW VERSATILE ULTRASOUND CAN BE

We engineered the M-Turbo ultrasound tool to give you radically better image quality with sharp contrast resolution and clear tissue delineation. You can better visualize detail, improving your ability to differentiate structures, vessels and pathology. Because the more you can see, the more you can do for your patient

### ◆ SONOGTTM GLOBAL TARGETED TECHNOLOGY

SonoGTTm Global Targeted technology, an advance that capitalizes on the power of the M-Turbo platform to drive a new level of color flow imaging, wireless connectivity and workflow integration for anesthesia, emergency medicine, critical care and other acute point-of-care markets

### ◆ COLORHDTM TECHNOLOGY

A proprietary, color Doppler algorithm that harnesses the power of the M-Turbo system's digital signal processor to increase color performance, sensitivity and frame rates. Available on all transducers, ColorHD technology works in parallel with multiple M-Turbo algorithms, including SonoHDTM imaging technology, to provide increased diagnostic information and better visualization of color flow, particularly in low flow states. ColorHD technology also comes with a variable sector size for the P10x8.4 MHz and the P21x15.1 MHz phased array transducers for increased frame rates during cardiac imaging

#### ◆ **SONOREMOTEni CONTROL**

A new accessory enabled by the SonoGT technology platform untethers the clinician from the ultrasound system during procedures to increase ergonomic comfort and is expected to be very useful in sterile field procedures. Based on Bluetooth wireless technology, the SonoRemote control can operate within a sterile bag or sheath and can be used to adjust system controls from within a radius of 10 meters. SonoSite plans to begin shipping this option in the first quarter of 2009.

#### ◆ **SONOROADV" TECHNOLOGY**

An option using 802.11b/g technology, SonoRoam technology enables wireless image transfer from the M-Turbo system to a PACS system via DICOM and to a personal computer via SonoSite's SiteLinIOm so that clinicians can quickly retrieve the information from any location. Wireless connectivity is increasingly viewed as a critical component to reduce medical errors and speed time to diagnosis in a portable ultrasound system.

#### ◆ **WORKFLOW INTEGRATION**

**DICOM Storage Commit** and DICOM Modality Performed Procedure Step have been added to the M-Turbo system to complete the IHE profile (Integrating the Healthcare Enterprise) Scheduled Workflow (SWF) Integration Profile. This facilitates seamless clinical integration of ordering, scheduling, image acquisition, storage, viewing and billing of patient procedures.

**Patient Management** - Patient demographics can now be entered before, during or after the exam. This allows flexibility in getting the procedure completed in time-critical situations where documentation is secondary to that of the procedure itself. DICOM Multi-Modality Worklist (MWL) queries can be made to the hospital information network to gain quick access to patient scheduling for ultrasound and non-ultrasound procedures.

**New USB Bar Code Reader** - This accessory allows clinicians to quickly and accurately enter patient information and update exam information prior to its entry into the patient record. SonoSite's bar code reader now is powered through a USB port freeing AC power for another device.

#### ◆ **5-YEAR WARRANTY**

SonoSite's industry leading 5-Year Warranty covers the system and SonoSite-manufactured transducers. It also includes next-day delivery of a loaner replacement system if needed, where available. For complete terms and conditions, please contact your sales consultant.

## Specifications

**System Weight:** 6.7 lbs (3.04 kg) (without battery and transducer)

**Dimensions:** 11.9" L x 10.8" W x 3.1"H (30.2 cm Lx 27.4 cm W x 7.9 cm H)

**Display:** 10.4" (26.4 cm) diagonal LCD (NTSC or PAL)

**Connectivity:** 2 USB 2.0 ports, Ethernet port, RS-232, Digital Video Interface (DVI), S-Video(in out), and composite video out.

**USB Storage Formats:** MPEG-4 (H.264), JPEG, BMP. Compatible with Mac and PC formats.

**Architecture:** All-digital broadband multi-frequency imaging.

**SonoGrm Global Targeted technology:**

ColorHDTM Technology

SonoRemoteim Control

SonoRoam™ Technology

**Imaging Capabilities:** 2D with Tissue Harmonic Imaging Velocity Color Doppler, Color Power Doppler, SonoMBTM Multi-beam technology, Auto Gain automatic image optimization, Dynamic range and gain

**Image processing:** SonoHDTMA Imaging Technology SonoADAPrm Tissue Optimization SonoMlrm Multi-beam Technology Dual Imaging, Duplex Imaging, 2x pan/zoom capability

**Application Specific Calculations:**

- **Cardiac:** Complete cardiac calculations package and patient report, including ventricular, aortic and atrial measurements, ejection fraction, volume, Simpson's rule, continuity equation, pressure half-time and cardiac output.
- **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, ICA/CCA ratio, angle correction, patient report
- **IMT (Intima Media Thickness):** Embedded SonoCalc® IMT software - automatic edge detection with mean and maximum thickness reporting

**Information management:** 8GB internal storage. Enough storage for up to 64,000 images or 1,066 2 second clips.

**Supported Peripheral Devices:** **B&W** video printer, DVI recorder, Bar Code Reader

**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

## SYSTEM CONFIGURATION

Configuration- Included Items			
Item		Description	Qty
1		Sonosite M-Turbo	1
2		M-Turbo Color Option- Olympic Mist	1
3		Standard Application Software Package M-Turbo	1
4		DICOM Bundle (print/store/worklist, Mpps, Sc) M-Turbo	1
5		Color Doppler and Velocity Color	1
6		Pulsed Wave Doppler	1
7		SonoMBe, M-Turbo	1
8		Footswitch Kit MDSmJMDSeIMDS Lite with DV1 Mini dock	1
9		HFL38x / 13-6 MHz Transducer Biopsy Compatible	1
10		SLAx 113-6 MHz Transducer	1
11		H Universal Stand (M- Turbo only)	1
12		User Guide M-Turbo	1
13		Service Manual M-Turbo	2
14		60 Months Standard Coverage Warranty	1
15		12 Month Standard Coverage Warranty	1