v.a. medical center
3710 sw vets hosp rd
Portland, or

PO# 648-B31000

Configuration - Included Items

Item Part Number - Description	Qty
1 L05323 -SonoSite M-Turbo	1

SonoSite M-Turbo high-resolution, all-digital, 7.5-pound (3.0 kg) ultrasound system with 10.4in. Digital display. Standard features include display module, 2D grayscale with SonoMB Multi Beam Technology and Auto Gain, with SonoADAPT Tissue Optimization Technology, Clips storage, M-mode, HIPAA compliance tool set, comprehensive application specific calculation packages, PC direct connectivity capability (through USB Memory Stick or via SiteLink and USB Cable ordered separately). Also includes battery, ultrasound gel, and user guide on a CD (Printed user guides also available as a purchasable
option). You can select one of five (5) different exterior color plates to customize your system.

The M-Turbo combines the high performance of cart-based systems with the speed, flexibility and durability of hand-carried ultrasound. 8 GB of on-board Flash memory will retain enough data for over 40 standard exams (or 2,400 seconds of clips, 1,200 still frames and 40 report pages) even after power is turned off. The system supports USB media playback, and connectivity is accomplished through one of two USB slots on the system, which allow for direct sharing of images (JPEG) and Clips (MPEG4) to a PC or Mac. Additional connectivity is achieved via the optional H-Stand or Mini-Dock, to meet your specific needs.

M-Turbo's reliability and durability are backed by a five-year standard warranty, which is included in the price of the system. Software upgrades to the main system and transducer databases are both accomplished through one of the two USB ports on the system.

Additional features available to add to our system include: SonoHD Imaging Technology image processing, SonoMBe, ColorHD, Tissue Harmonic Imaging, PW Doppler, TDI PW, CW Doppler, DICOM Bundle, In Progress
Archive, Worksheets, and a full array of multi-frequency, broadband transducers. This product is designed with an intuitive interface with Chip Fusion Technology.

Included with the purchase of your SonoSite M-Turbo, you will receive four consecutive hours of installation provided by a SonoSite Clinical Specialist.
The installation includes an overview of the product and accessories
purchased, training on the features, functions, and user interface, and system

Item	Part Number -	Qty

2 P07272 -M-Turbo Color Option - Glacier Sky
   Glacier Sky, Blue

3 P08592 -Standard Application Software Package M-Turbo   1   0
   The following minimum application package must be ordered with your
   M-Turbo ultrasound system in order to assure the best imaging
   performance that was designed into the product. If any of the
   application software packages below are ordered, there is no need to order
   this option since this capability is bundled with the other software features.
   This package provides the following capabilities for the transducers that
   support these features:
   - Tissue Harmonic Imaging (THI), a capability in which the system
   transmits at one frequency and receives at a higher harmonic frequency
   to reduce noise and clutter and improve resolution.
   - SonoHD Imaging Technology, technology which significantly reduces
   speckle noise while enhancing tissue margins, thereby dramatically
   improving contrast and structural resolution.

4 P12819 -DICOM Bundle (Print/Store/Worklist Mpps Sc) M-Turbo   1
   The DICOM complete package includes the capability to interface with
   your PACS network with the complete offering of DICOM Print, Store,
   Worklist, storage commit, and modality perform procedure step.

5 P08293 -Color Doppler And Velocity Color   1
   Velocity color flow imaging provides the clinician with the color sensitivity
   to perform color Doppler examinations with all transducers during a
   clinical procedure.

6 P17726 -Wireless Data Management   1
   This kit includes the USB dongle that is used to transmit images and
   information wirelessly and installation instructions.

7 P13930 -SonoMBe, M-Turbo   1
   Proprietary software that enhances the systems ability to aid needle
   visualization.

8 P07693 -HFL50x / 15-6 MHZ Transducer Biopsy Compatible   1
   HFL50x / 15-6 MHz multi-frequency, broadband, 50mm linear array
   transducer for small parts, breast, musculoskeletal and nerve. Supports 2D
   with SonoMB, Sono UltraRes Technology, Multi Beam Technology and
   Auto Gain capabilities, SonoHD Imaging Technology, M-mode, Color
   Power Doppler, Velocity Color Flow Doppler and Pulsed Wave
   Doppler. Biopsy guide available. Maximum depth is 6 cm.

9   L12163 -H-Universal Stand (M-Turbo Only)   1

Item	Part Number -	Qty
	Ergonomic stand and mobile work platform for the M-Turbo system and transducers. Complete with power supply, DVI mini-dock and accessory basket.	
10	P07662 -User Guide M-Turbo M-Turbo Ultrasound System User Guide, English	1
11	P14689 -USB Footswitch Hands-free operation with a customizable two pedal footswitch with USB connection. Allows user customization for high use functions such as Freeze, Save, Save Clip, Record, or Print.	1
12	P08144 -Service Manual M-Turbo M-Turbo Ultrasound Service Manual.	1
13	P08144 -Service Manual M-Turbo M-Turbo Ultrasound Service Manual.	1
14	5-YR-WARRANTY -60 MONTHS - STANDARD COVERAGE WARRANTY 60 MONTHS - STANDARD COVERAGE WARRANTY	1

System Specifications:

System weight	6.7 lbs./3.04 kg
Dimensions	11.9" Lx 10.8" Wx 3.1" H / 30.2 cm Lx 27.4 cm Wx 7.9 cm H
Display	10.4"/26.4 cm diagonal LCD (NTSC or PAL)
Architecture	All-digital broadband
Dynamic range	Up to 165 dB
Gray male	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, Dynaic range and gain

Transducers:

Broadband and Multifrequency:
  Linear Array, Curved Array, Phased Array, Multiplane TEE and Micro-Convex
Single Frequency:
  Cardiac Static Pencil

User nterface and Remappable Controls:

Softkeys to drive advanced features
Programmable A and B keys: eachcan 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

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, userdefined tables, multiple userselectable 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

CITMT (Carotid Intima TMedia Thickness): Embedded SonoCalc® IMT software (optional) automatic edge detection withmean 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): Coplete TCD package including Tie Average Peak (TAP)

Onboard mage and Clip Storage/Review:

8GB internal Flashmemory 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:

Syste 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 traceTM-TMode: Distance and time measurements, heart rate calculation User-selectable text and pictograms
User-defined, application-specific annotations
Biopsy guidelines

External Data Management and Wireless:

DICOTMe Image TManagement (TCP/IP):
  Print and Store, Modality Work List
Storage Commit:
  Modality, Perform, Procedure Step
PC Workstation Image TManagement (TCP/IP, USB):
  SiteLink- Image Manager allows transfer, archiving, viewing and printing of high
    resolution bitmap images/clips, and batchcompression to J PEG 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
SonoSitee Workflow Solutions (SWS-):
  A suite of specialized tools to streamline exam management for billing, credentialing,
  EMR and image archiving
Wireless Solutions:
  SonoRemote- Control — Bluetooth® wireless technology

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

HUniversar 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 withstandard ECG leads and electrodes
External analog ECG input also available
USB bar code reader

SonoSite.

World leader and specialist in hand-carried ultrasound.

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Fax: +1 (425) 951-6800 E-mail: m-turbo@sonosite.com
www.sonosite.com/products/m-turbo

SonoSite designs, manufactures and tests transducers in-house with real-world customer needs in mind. our transducers exceed stringent military specifications for drop testing and fluid resistance, so you can use them with confidence in the most demanding of environments. Maybe that's why SonoSite is the only ultrasound company to offer an industry leading 5-year warranty on the transducers it manufactures.

STANDARD 5 YEAR WARRANTY

Technology Driven 5-Year Warranty
Made in the USA

L38xi

10-5 MHz
38-mm broadband
linear array

Scan Depth:
9 cm

Applications:
Breast, small parts, vascular, IMT, nerve, venous,

HFL38x

13-6 MHz
38-mm broadband
linear array

Scan Depth:
6 cm

Applications:
Breast, small parts, vascular, musculoskeletal, IMT,nerve,venous

HFL50x

15-6 MHz
50-mm broadband
linear array

Scan Depth:
6 cm

Applications:
Breast, small parts, musculoskeletal, nerve

L25x

13-6 MHz
25-mm broadband
linear array

Scan Depth:
6cm

Applications:
Musculoskeletal, vascular, nerve, superficial, venous, ophthalmic

C11x

8-5 MHz
11-mm broadband
curved array

Scan Depth:
10 cm

Applications:
Abdominal, neonatal, nerve, vascular

C60x

52 MHz
60-mm broadband
curved array

Scan Depth:
30 cm

Applications:
oB, gyn, abdominal, nerve, musculoskeletal

CTx

musculoskeletal

8-5 MHz
11-mm broadband
tightly curved aray

Scan Depth:
10 cm

Applications:
oB, gyn

P21x

1 MHz
21-mm broadband
phased array

Scan Depth:
35 cm

Applications:
Abdominal, oB, cardiology, TCD, orbital

P1Ox

8-4 MHz
10-mm broadband
phased aray

Scan Depth:
14 cm

Applications:
Cardiology, abdominal, neonatal head

SLAx

13-6 MHz
25-mm broadband
linear array

Scan Depth:
6cm

Applications:
Vascular, musculoskeletal, venous, superficial, nerve

TEEx

8-3 MHz
Multiplane transesophageal 180° rotation of the imaging plane, providing a 360° field of view

Scan Depth:
18 cm

Applications:
Adult cardiology

D2x

2 MHz
Penciltransducer, Pedof CW

Scan Depth:
N/A

Applications:
Cardiology (CW)

Biopsy kits available with the following transducers — L38xi, HFL38x, HFL50x, C60x, ICTx and 1310x. A transverse needle guide is available with the L25x transducer.

For detailed information, please visit www.sonosite.com/products/m-turbo or speak with your SonoSite customer representative.

Universal Stand

The universalstand offers physicians a more ergonomic design with a lighter, more robust, and modular architecture. Idealfor point-of-care ultrasound applications, the universalstand can be easily maneuvered through crowded hospitalcorridors and optimally positioned at the patient's bedside or in other space-constrained areas. The H-Universal‑ Stand and the V-Universal‑ Stand's are compatible with our third and fourth generation products.

The universalstand can be upgraded to incorporate SonoSite Power Solutions (see reverse side) to offer the most flexible options to meet the challenges of point-of-care environments.

Features:

- Four transducer holders
- Cable hooks
- Locking wheels
- Storage basket
- Power supply
- Keyboard tray*

Peripherals (optional):**

- Sony B&W printer
- Sony color printer
- Sony DVD recorder
- 15 in. auxiliary monitor***
- Triple transducer connect***

Accessories:

- PowerPark—Dedicated charging station
- PowerPack—Extended battery pack

The H-UniversalStand can be configured with the M-Turbo® and MicroMaxx® ultrasound systems.

The V-UniversalStand can be configured with the S Series™ and NanoMaxx™ ultrasound systems.

*V-UniversalStand only
**V-UniversalStand only accommodates one periphera
***H-UniversalStand only

HUniersal Stand

VUniersal Stand

Specifications		VUniversal Stand
Width:	20 in./50.8 cm	20 in./50.8 cm
Depth:	23 in./58.4 cm	23 in./58.4 cm
Height:	Min: 33 in./83.8cm. Max: 45 in./114.3 cm.	Min: 42.5 in./108 cm Max: 54.5 in./138.4 cm
Pneumatic height range:	12 in./30.5 cm	12 in./30.5 cm
Weight:	40.0 lbs./18.1 g	45.0 lbs./20.5 g

PowerPark Dedicated Charging Station

For true mobility to any point-of-care location around the hospital or office, the PowerPark is a cordless and convenient charging solution for SonoSite ultrasound systems. The PowerPark provides a dedicated charging station while the ultrasound system is mounted on the stand. Just park and charge.

- Increase workflow and efficiency—System remains fully-charged
- Provide storage—Dedicated storage location for stand and ultrasound system
- Facilitate cord management—No need for ultrasound system electrical cords

Specifications:	
Width	8.6 in./21.8 cm
Length	15 in./38.1 cm
Height	4.8 in./12.2 cm
Weight	20 lbs./9 kg

PowerPack Extended Battery Pack

The ultimate power solution for hospital and office settings, SonoSite's PowerPack-Ft is an innovative and streamlined external battery pack. With the ability to double a system's battery life, the PowerPack provides improved flexibility and efficiency, enabling physicians to see more patients on a single battery charge. The PowerPack can be easily installed on the SonoSite universal stand for a ready-to-go charging solution.

- Improves flexibility and workflow
- Extends the operating time of the ultrasound system
- Reduces the need to seek a power supply outlet in the patient exam room

Specifications:	
Width	4 in./10.2 cm
Length	10 in./25.4 cm
Height	2 in./5.1 cm
Weight	1.4 lbs./0.6 kg

† The PowerPark and PowerPack are compatible with SonoSite's H Universal Stand and V Universal Stand. The PowerPark can be used with the MicroMaxx, NanoMaxx, M Turbo and S Series ultrasound systems and the PowerPack is compatible with the M Turbo, S Series and NanoMaxx ultrasound systems.

†† Product release is expected Q4 2010.

SonoSite.

SonoSite's ndustryleading Warranty

SonoSite's technology-driven, 5-year standard warranty covers damage to the system and SonoSite manufactured transducers due to defective materials, workmanship, and/or failure to operate in accordance with specifications in the User Guide. We will provide customers with loaner equipment of systems and transducers the next day where delivery is available. Additional coverage is available for purchase.

STANDARD 5 YEAR WARRANTY — Technology Driven 5-Year Warranty — Made in the USA

5-year warranty inclusions:

M-Turbo® and S Series— ultrasound systems. Transducers: C60x, HFL38x, L38xi, L25x, C11x, ICTx, P10x, P21x, HFL50xMicroMaxx® ultrasound system. Transducers: C60e, HFL38, L38e, P10, L25e, C11e, ICTe, P17
NanoMaxx— ultrasound system. Transducers: C60n, L38n, L25n, C11n, P21n

Cost savings from SonoSite's 5Year Standard Warranty		
Year	SonoSite's 5Year Standard Warranty	ndustry 1Year Standard Warranty*
1	$0	$0
2	$0	$4,000
3	$0	$4,000
4	$0	$4,000
5	$0	$4,000
Additional cost to customer	$0	$16,000

* Based on $*50,O* purchase price and annual service contract of *10*% of purchase price.

Warranty for Accessories and OEM Transducers

SonoSite accessories, as well as products and accessories made by our manufacturing partners that carry the SonoSite label, are covered under a 1-year warranty that covers damage due to defective materials and workmanship, and/or failure of the accessories and transducers named below to operate in accordance with specifications in the User Guide.

1-year warranty inclusions:

Transducers: C8e, TOE/TEE, SLA, SLT, D2 (Cardiac static pencil)
Accessories: H-Universal™ Stand, V-Universal™ Stand,SonoRemote™ Control

Please see SonoSite`s Terms and Conditions for detailed coverage information on SonoSite`s waranty oferings. Terms may vary for veterinary products.

Call (877) 657-8050 to speak to a SonoSite representative to find out more about these options or to ask about the status of your warranty.

S Series

MICRO**MAXX.**

SonoSite.

World leader and specialist in hand-carried ultrasound.

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Fax: +1 (425) 951-6800 E-mail: sonohg@sonosite.com
www.sonosite.com/support/warranty and service

MTurbo

NanoMaxx

How can we offer the best warranty in the industry?

When you build very durable products, you can eliminate annual service contracts and offer a 5-year warranty to deliver the lowest cost of ownership in point-of-care medicine

SonoSite's hand-carried and mounted ultrasound systems are the toughest in the industry. Built to exceed military specifications, our systems and proprietary transducers withstand a 3-foot drop onto a hard surface and resist fluid contamination. In the unlikely event your system or transducer needs repair, we have an overnight loaner program to minimize downtime.

SonoSite's third and fourth generation ultrasound systems comes with the same industry-leading, 5-year warranty that you have come to expect from us. With an installed base of more than 50,000 systems worldwide, our technology-driven warranty is based on a proven record of reliability and durability—just one of the reasons customers give us a 99% satisfaction rating.

Visit www.sonosite.com/support/warranty-and-service or call (877) 657-8050 to speak with a customer service representative.

SonoSite.
World leader and specialist in hand-carried ultrasound.