SonoSite M-Turbo Ultrasound

The SonoSite M-Turbo ultrasound system is a versatile, digital, and software controlled device. This portable and innovative system has numerous configurations and features sets used to obtain and display real-time, high-resolution ultrasound images used for abdominal, nerve, superficial, vascular, cardiac, venous access, and pelvic views.

Specifications

- **Imaging Modes and Processing**
  - *Broadband, multi-frequency 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
    - SonoMB® Multi-beam Imaging
    - Advanced Needle Visualization
    - Auto gain automatic image optimization
    - Dual Imaging
    - Duplex Imagine
    - 2x pan/zoom capability

- **Transducers**
  - *Broadband and multifrequency*
    - Linear Array, Curved Array, Phased Array, Multiplane TEE, and Micro-Convex
  - *Single frequency*
    - Cardiac Static Pencil

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

- **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

• 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

• Onboard Image and Clip Storage/Review
  • 8 GB 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, ellipses 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 Performed Procedure Step
  • SiteLink™ Image Manager functionality
  • SonoSite® Education Key™ training video compatible
  • SonoSite Workflow 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

• **Supported Peripheral Devices**
  • B/W video printer
  • DVD recorder
  • bar code reader

• **Dimensions**
  • 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 L x 27.4 cm W x 7.9 cm H)
  • Display: 10.4" (26.4 cm) diagonal LCD (NTSC or PAL)

• **Other Information**
  • Architecture: All-digital broadband multi-frequency imagining
  • Dynamic range: Up to 165 dB
  • Gray scale: 256 shades
  • HIPAA compliance: Comprehensive tool set