

## System Specifications:

<b>Weight</b>	6.7 lb (3.04 kg) (system only)
<b>Dimensions</b>	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)
<b>Display</b>	10.4" (26.4 cm) diagonal LCD (NTSC or PAL)
<b>Architecture</b>	All-digital broadband
<b>Number of channels</b>	128 channels
<b>Dynamic range</b>	Up to 165 dB
<b>Gray scale</b>	256 shades
<b>HIPAA compliance</b>	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

Image processing:  
 SonoADAPT™ Tissue Optimization  
 SonoHD™ Imaging Technology  
 SonoMB™ Multi-beam Imaging  
 Dual imaging  
 Duplex imaging  
 2x pan/zoom capability  
 Dynamic range and gain

## Transducers:

Broadband and multifrequency:  
 Linear Array, Curved Array, Phased Array

## 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, 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 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

### Cardiac:

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

## 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

## External Data Management:

### 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



## 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

## 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

## Mobile Docking Stations and Peripherals:

### MDSm – 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
- Optional 15" (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 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