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true mobility

PC- and Macfriendly for effortless data management with 2 high-speed USB 2.0 ports

Battery-powered and

wireless capabilities for

Weighs 7.5 lbs./3.4 kg with battery

AT A GLANCE

- Premium image quality
- Drop tested at 3 feet/91.4 cm
- Splash resistant user interface
- · Quick boot-up time
- · Easy to operate
- No annual service contract



High Resolution Imaging Across the Point of Care

Engineered for striking image quality, durability and ease of use, the M-Turbo® ultrasound system, has earned customer satisfaction ratings of 99%*. Proprietary algorithms optimize multiple imaging parameters so you get essential information quickly and easily.

Turbo Technology

SonoADAPT™ Tissue Optimization – eliminating complicated manipulation of multiple controls.

SonoHD™ Imaging Technology – reducing speckle noise and other image artifacts while preserving and sharpening tissue information.

SonoMB™ Multi-beam Imaging – increasing resolution of small structures and enhancing border delineation.

Advanced Needle Visualization – aiding needle visualization while maintaining striking image quality of the target and surrounding anatomy.

ColorHD™ Technology – increasing color performance, sensitivity and frame rates for more diagnostic information.

Point-of-Care Applications

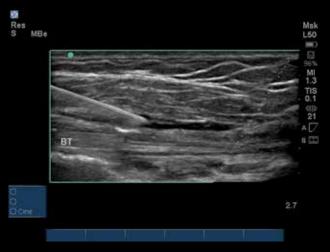
Anesthesia, Critical Care, Cardiology, Cardiovascular Disease Management, Emergency Medicine, Musculoskeletal, OB/Gyn, Radiology, Vascular, Surgery, Vet Imaging, Women's Health

*Verispan surveys 2008





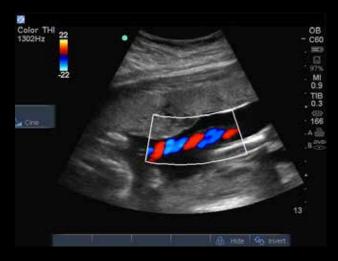
Abdomen - Pelvis - Free Fluid



Shoulder Injection with Needle



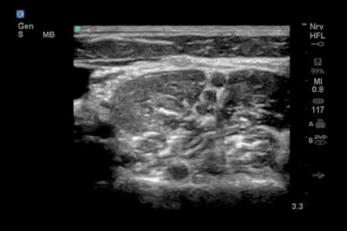
Heart Parasternal Short Axis



OB Cord



Liver, Right Kidney



Brachial Plexus Nerves Root

L38xi



10-5 MHz Linear

Applications:

breast, IMT, musculoskeletal, nerve, small parts, vascular, venous

Scan depth: 9 cm

HFL38x



13-6 MHz Linear

Applications:

breast, IMT, musculoskeletal, nerve, small parts, vascular, venous

Scan depth: 6 cm

HFL50x



15-6 MHz Linear

Applications:

breast, musculoskeletal, nerve, small parts

Scan depth: 6 cm

L25x



13-6 MHz Linear

Applications:

musculoskeletal, nerve, superficial, vascular, venous, ophthalmic

Scan depth: 6 cm

C8x



8-5 MHz Curved

Applications:

prostate, transrectal

Scan depth: 11.5 cm

C11x



8-5 MHz Curved

Applications:

abdominal, neonatal, nerve, vascular, cardiology (vet)

Scan depth: 10 cm

C60xi



5-2 MHz Curved

Applications:

abdominal , musculoskeletal, nerve, ob, gyn

Scan depth: 30 cm

ICTx



8-5 MHz Curved

Applications:

ob, gyn

Scan depth: 13 cm

P21x



5-1 MHz Phased

Applications:

abdominal, cardiology, ob, orbital, TCD

m Scan depth: 35 cm

P10x



8-4 MHz Phased

Applications:

ped. abdominal, ped. cardiology, neonatal head

Scan depth: 14 cm

SLAx



13-6 MHz Linear

Applications:

musculoskeletal, nerve, superficial vascular, venous

Scan depth: 6 cm

TEExi



8-3 MHz Multi

Applications:

adult cardiology, multiplane transesophageal 180° rotation of the imaging plane, providing a 360° field of view

Scan depth: 18 cm

P11x



10-5 MHz Phased

Array
Applications:

Venous and vascular access

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L52x (VET)



10-5 MHz Linear

Applications:

musculoskeletal, ob, vascular

Maximum Depth: 12cm Scan depth: 15 cm

SYSTEM SPECIFICATIONS

System weight: 7.5 lbs./3.4 kg with battery

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

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, save Dedicated AutoGain and exam keys to allow quick

TRANSDUCERS

Broadband and Multifrequency: Linear Array, Curved Array, Phased Array, Multiplane TEE and Micro-

Single Frequency: Cardiac Static Pencil

DURABILITY

Drop-tested at 3 feet/91.4 cm

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)

ONBOARD IMAGE AND CLIP STORAGE/REVIEW

16 GB encrypted, internal Flash memory storage capability. Potential to store 40,000 images or 1900

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

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

Q-path ultrasound management system

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

CONNECTIVITY

S-video (in/out) to VCR for record and playback DVI output

Composite video output (NTSC/PAL) to VCR or video printer .

Audio output

Integrated speakers

Ethernet or wireless image/data transfer

USB ports (2)

RS-232 transfer

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

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 PowerPark and PowerPack

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

FUJ!FILM

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