

SonoSite 180 PLUS

SYSTEM SPECIFICATIONS

Clinical Applications

- Abdominal
- Vascular
- Breast
- Obstetrical
- Pediatric/Neonatal
- Intraoperative Procedures
- Interventional Procedures
- Cardiac
- Prostate
- Small Parts
- Gynecological
- Musculoskeletal

Imaging Modes

- 2D
- Zoom
- Narrow imaging sector
- Color Power Doppler
- PowerMap™ Directional Color Power Doppler
- Pulsed Wave Doppler (option)
- M-mode
- Tissue Harmonic Imaging (option)

Physical Characteristics

- Height: 13.3 in (33.8 cm)
- Width: 7.6 in (19.3 cm)
- Depth: 2.5 in (6.35 cm)
- Weight: 5.4 lb (2.4 kg) with one transducer attached

Transducers

- Lightweight with rapid, pinless connection
- C60/5-2: 60-mm broadband (5-2 MHz) curved array for general-purpose abdominal, obstetric and gynecologic applications
- ICT/7-4: 11-mm broadband (7-4 MHz) intracavitary array for gynecologic, obstetric and urologic applications. Biopsy guide available
- C15/4-2: 15-mm broadband (4-2 MHz) array for transthoracic and abdominal imaging
- L38/10-5: 38-mm broadband (10-5 MHz) linear array for breast, small parts, interventional, musculoskeletal and vascular imaging. Biopsy guide available
- C11/7-4: 11-mm broadband (7-4 MHz) curved array for neonatal head, pediatric and neonatal abdomen, vascular access and assessment and pediatric cardiac imaging

User Interface

- Controls: 2D, Power Doppler, Pulsed Wave Doppler, M-mode, near gain, far gain, overall gain, save, print, freeze, cine review, text/picto, select, measure, optimize, depth, zoom, patient
- Narrow Imaging Sector feature on both 2D, PowerMap and Pulsed Wave Doppler modes
- User-defined labels
- Integrated 5 in (12.7 cm) TFT color Liquid Crystal Display with brightness and contrast controls
- Integrated trackball for navigation
- Alpha-numeric keyboard
- System optimization presets for different patient body types

System Parameters

- System dynamic range: approximately 140 dB
- Frame rate: up to 100 frames/second

Image Storage and Cine

- Storage: internal 120 image memory (maximum) for off-line printing and review
- Cine: image retained for frame-by-frame viewing
- PC Direct Connectivity: connect directly to a PC using a cable link from a serial port to a PC with SiteLink image manager software to download high resolution bitmap images

Clinical Analysis Package

- OB calculations with report package via standard tables
- Cardiac calculation package
- Doppler vascular calculation package

Measurement Tools

- Distance calipers – two sets
- Ellipse for area and circumference measurements
- Volume calculation

Power

- Operates via battery or AC power – 1.5 to 4 hours on fully charged, new battery
- Battery: rechargeable lithium ion
- AC: via universal power adaptor, 100-240 VAC, 50-60 Hz

Display Annotation

- Text and pictograms

Peripheral Connections

- Composite video output (NTSC/PAL) to videocassette recorder, video printer or external monitor
- Connect to PC via PC Direct cable, or via SiteStand™ mobile docking station to download high resolution bitmap images
- ECG/serial connector



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INTRODUCING
SonoSite 180 PLUS



HAND-CARRIED ULTRASOUND

Introducing the next generation of all-digital technology from world leaders in high quality, hand-carried ultrasound.

Less than two years after launching the world's first all-digital, hand-carried ultrasound device, SonoSite now introduces the *SonoSite 180PLUS* system – putting full-featured diagnostic capability into the hands of physicians for immediate answers at the point of care.

Building on our successful *SonoSite 180* platform, we have added powerful new features that enhance utility, image quality and versatility without sacrificing portability, ease-of-use or affordability. The *SonoSite 180PLUS* delivers features previously found only on significantly more expensive cart-based systems including Pulsed Wave (PW) Doppler, Tissue Harmonic Imaging (THI), M-mode and ECG capability in an all-digital system weighing less than six pounds.

In addition, onboard **PC Direct Connectivity** allows transfer of stored images directly from the system to a PC to meet quality assurance, training, basic storage and presentation needs.

The SonoSite® 180PLUS system
taking hand-carried ultrasound to the next level.

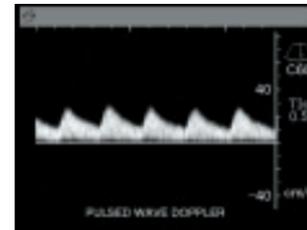
Call 1-877-657-8050 for more information.

www.sonosite.com

PULSED WAVE DOPPLER



Umbilical cord with Pulsed Wave Doppler sample volume and PowerMap™ Directional Color Power Doppler



Umbilical cord with Pulsed Wave Doppler trace displays valuable information about fetal well being

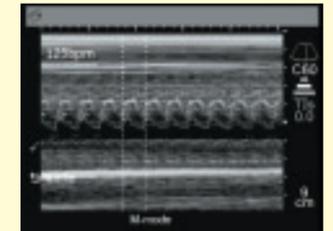
SonoSite's new PW Doppler provides extremely sensitive and accurate quantitative assessment of blood flow with a simple, intuitive user interface. The sensitivity and clear signal quality compares favorably to PW Doppler found on much larger, more expensive ultrasound systems.

M - MODE

SonoSite's M-mode is an easy-to-use and highly accurate feature that provides a quantitative assessment of moving structures such as heart valves or chambers.



M-mode sample line with 36-week fetal heart



M-mode tracing provides information on the heart rate of this 36-week fetal heart



TISSUE HARMONIC IMAGING



Fundamental scan of a 34-week pregnancy



Tissue Harmonic Imaging provides greater detail resolution of the same 34-week pregnancy

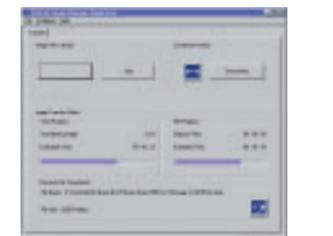
Tissue Harmonic Imaging is an advanced ultrasound technique never before available in a product in this price range. In THI mode, the system transmits at one frequency and receives at a higher, harmonic frequency, "listening" for harmonic signals generated by tissue as it is insonified by sound waves. The cleaner, higher frequency signal results in images with less noise and reduced clutter. Image quality is enhanced with improved tissue differentiation, finer dot size and a "smoother" appearance.

PC DIRECT CONNECTIVITY

PC Direct Connectivity allows for simple and efficient transfer of stored images from a *SonoSite 180PLUS* system to a standard PC. A port on the system links to a PC via a single cable. With SiteLink image manager software and a simple button click, images are downloaded in high resolution bitmap format and automatically stored in an intuitive file folder system. Images can then be archived, reviewed, converted to other formats such as JPEG, and transferred anywhere via standard Email. This system is ideal for quality assurance, ongoing training programs, low-cost image archiving, presentation development and sharing images with colleagues and patients.



PC Direct Connectivity provides a direct connection to PC via serial port and cable



SiteLink Image Manager provides fast and easy transfer of images for quality assurance, image archival, review, transfer or conversion to other formats