



# Revolutionize the Way You Work

## The First Pocket Ultrasound System

The ACUSON P10™ ultrasound system is the first pocket ultrasound imaging device providing physicians and clinical personnel with earlier, faster and more accurate clinical assessment at the point of care. The ACUSON P10 system revolutionizes existing assessment and examination protocols via the extension of the physical exam in cardiology, emergency medicine care and obstetrics.

The ACUSON P10 system is the ideal solution when it comes to supporting triage decisions, bedside monitoring, and traditional diagnosis, by providing additional information during the clinical assessment. With its instant power-up capabilities, exceptional image quality and a simplified user interface, the ACUSON P10 system is available immediately — anytime, anywhere you need it — helping you to make more informed, more confident decisions.

In cardiology, the ACUSON P10 enables you to visualize basic anatomy, function, and effusion as part of an initial patient assessment, routine follow-up, or in pre/post procedure care in the ICU/CCU.

In emergency medicine, the ACUSON P10 system eliminates the usual delays in assessing free fluid, cardiac activity, and AAA, as well as enabling ultrasound guidance for para/thoracocentesis.

In obstetrics, the ACUSON P10 system gives physicians and midwives a quick and comprehensive overview on fetal positioning, anatomy, heart beat, fluid levels and placenta location during labor or routine office visits.

### Benefits at a Glance

- Improved patient care, improved workflow, improved outcomes
- Faster, better-informed, and more confident diagnosis
- Faster time to triage
- More secure care path decisions
- Fits into coat pocket for instant availability

### Technical Specifications

#### System Specifications

- 2D-mode imaging in fundamental and harmonic modes
- Image depth from 4 cm to 24 cm
- Up to 28 frames per second
- ~10 second startup time
- Removable, rechargeable Li ion battery
- Digital dynamic exam acquisition, storage, review, and transfer via integrated SD™ Memory Card
- Kensington Security Slot for laptop-style physical security
- Docking station/dual battery charger
- ACUSON P10 Viewer™ ultrasound software – PC-based offline utility software

#### Imaging

- Up to 64 processing channels
- 78 degree scan angle
- Adjustable gain
- Automatic Time Gain Compensation (TGC)
- Configurable signal processing hardware provides a pathway for future performance expansion and technology innovations

#### Software Specifications

- Intuitive PDA-style user interface
- Application presets for cardiac, abdominal, and obstetric imaging
- Storage and retrieval of patient and study data to removable SD Card memory
  - Lossless digital acquisition of still frame and CINE image data (2 second clips)
  - Frame by frame and/or continuous CINE loop review
  - Up to 30,000 still frame or 500 CINE images on a 1 GB SD Card (~33 kB for still image, 2 MB for 2 sec CINE loop)

**ACUSON P10 Ultrasound System**  
Personal. Powerful. Pocket.

[www.pocketultrasound.com](http://www.pocketultrasound.com)

**SIEMENS**

- Measurements (2 Calipers, 1 Ellipse per image frame), available on current as well as saved/retrieved images
- Pre-defined application based annotations
- Patient worklist import from ACUSON P10 Viewer software (non DICOM) or local entry via QWERTY keypad
- On-Screen Menus for easy and immediate access to secondary controls
- Alphanumeric keyboard for text entry

#### Transducer Technology

- 2 – 4 MHz phased array transducer for abdominal, renal, obstetrics, transthoracic adult/pediatric cardiology, emergency medicine (EM)
- Frequency range: 2 – 4 Mhz
- Tissue harmonic imaging
- 4 cm – 24 cm display depth
- 64 elements
- 16.6 mm x 14 mm array footprint

#### Display

- 3.7 in (diagonal) LCD display, 640 x 480 pixels
- Wide viewing angle (80 degree typical)
- Adjustable tilt angle (0 – 170 degrees)
- Adjustable brightness
- Battery saving display power management

#### Documentation Devices and Connections Supported

- SecureDigital™ SD Memory card (24 mm x 32 mm x 2.1 mm) up to 2 GB
- USB 1.1 slave port (5 pin mini-B USB connector)

#### Acoustic Output Management

- On-screen acoustic power indicator (AIUM/NEMA output display standard)

#### Language Support

- Image screen and operating instructions available in English, German, French, Spanish, and Italian

#### Docking Station

- Dual bay battery charger with ports for ACUSON P10 system, spare battery, and probe to double as a carrying case
- Universal AC input
- Fully charges batteries in 2.5 hrs (75% charge in 1 hr)

#### Hardware Specifications

- Single unit with integrated transducer, display, and control panel, weighing 0.725 kg (1.6 lbs.)
- Handheld — Height 56 mm (2.2 in); Width 97 mm (3.8 in); Length 145 mm (5.7 in)

- Transducer: Length 136 mm (5.4 in); Width 48 mm (1.9 in); Height 33 mm (1.3 in)
- Docking station: Weight 0.953 kg (2.1 lbs); Height 101 mm (4.0 in); Diameter 274 mm (10.8 in)

## ACUSON P10 Viewer Software

#### Patient Study Management

- Search and sort patient database by Name, ID, Study Date Range, Exam type, and Study Status
- Create patient worklists and transfer them to the ACUSON P10 system to speed up exam time by eliminating the need to key in patient information
- Import patient data (still frame and CINE image data, measurements, and annotations) directly from the ACUSON P10 system via the USB port, from an SD Memory Card reader, or from a local or network disk location
- View and edit patient demographic information

#### Image Display

- Display digitally stored images and clips in a selectable 1-up, 4-up, or 9-up screen format
- VCR-style controls for CINE replay
- Export image data to \*.avi, \*.jpg, \*.bmp
- Study status of Pending, Read, and Deleted
- Single button load of next/previous Patient Study to optimize review workflow

#### ACUSON P10 System Management

- Move, Copy, Delete studies from the SD Memory Card
- Upload memory logs from ACUSON P10 system to enable service and support
- Download software updates to enable new system features, install presets for new applications, and bug fixes

## ACUSON P10 System Contents

- One (1) ACUSON P10 ultrasound system
- One (1) docking station
- Two (2) Li ion battery packs
- One (1) Secure Digital (SD) Memory Card
- One (1) compact disk containing Instructions for Use and the ACUSON P10 Viewer software
- Doppler-size ultrasound gel
- Localized power cord
- USB cable
- One year factory warranty

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