

ACUSON P10™ Hand-Held Ultrasound

Available exclusively to the pre-hospital market through EMS Innovations

Seeing Is Believing!



FLIGHT TESTED:

- **Drop Test**
 - Complies with the IEC60601-1 safety regulation
 - Transducer (head, side) 1.22m or 4ft
 - Handheld system 1.22m or 4ft
- **Shock and Vibration**
 - Complies to MIL-STD-180E: 1989
 - Method 514.4 Category 8 Procedure 1
- **Emissions of Radio Frequency Energy (Conducted and Radiated)**
 - Complies to RTCA/DO-160D, Environmental Conditions and Test Procedures for Airborne Equipment
 - Section 21, Category B
- **Atmospheric Pressure Testing**
 - Completed visual, mechanical and functional tests associated with the test table below.

The SIEMENS ACUSON P10™ ultrasound system is the world's first pocket ultrasound device—a handheld diagnostic and screening tool designed for physicians, nurses, EMTs and clinical professionals.

Start treatment sooner with cost efficient, non-invasive diagnostics.

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.

- **The Most Significant Advance in Triage Diagnostics Since the Stethoscope!**
- **Confirm Diagnostic Assumptions on the Spot in Real Time!**
- **Start Treatment Sooner with Cost Efficient, Non-Invasive Diagnostics**
- **Intuitive PDA type Interface with USB Ports for Rapid Transfer of Images**
- **The First Pocket Ultrasound Device—A Handheld Diagnostic and Screening Tool Designed for Physicians, Nurses, EMTs and Clinical Professionals.**

Atmospheric Pressure Step Test Table	
Hour : Min	Altitude (Kft)
00:20	0
00:40	2
01:00	4
01:20	6
01:40	8
02:00	10
02:20	12
02:40	14
03:00	16
03:20	18
03:40	20

Carry the ACUSON P10 system with you to make earlier, faster and more accurate decisions at the point of care. Use it anywhere, anytime — confirm diagnostic assumptions on the spot in real time. An array of applications, from cardiology and OB/GYN to emergency medicine and more, benefit from being able to visualize basic anatomy, function, and effusion as part of an initial patient assessment. The most significant advance in triage diagnostics since the stethoscope!

Patient Study Management

With its powerful processor and USB connectivity you can search and sort a stored 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.

An intuitive PDA type interface and USB ports for rapid transfer of images make the ACUSON P10 a valuable diagnostic and patient management tool when coupled with the P10 Viewer™ PC-based offline utility software



Sample Images



Cardiological



Obstetrical



Abdominal

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
- P10 Viewer™ PC-based offline utility software

Imaging

- Up to 64 processing channels
- 78° scan angle
- Adjustable gain
- TGO™ tissue grayscale optimization technology
- Configurable signal processing hardware provides a pathway for future performance expansion and technology innovations

Software Specifications

- Intuitive PDA-like 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)
- 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 P10 Viewer (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

- ACUSON P4-2 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
- Wall mount or desktop use
- 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
- Handheld — Height 54 mm (2.1 in), Width 97 mm (3.8 in), Length 142 mm (5.6 in)
- Transducer: Length 137 mm (5.38 in); Width 47.8 mm (1.88 in); Height 31.8 mm (1.25 in)
- Docking station: Weight 953 kg (2.1 lbs); Length 279 mm (11.0 in); Width 279 mm (11.0 in); Height 92.2 mm (3.63 in)

FEATURES:

- 1.6 lbs / .73 kg
- Designed for ease of use with intuitive PDA-style user interface
- Ready anywhere, anytime with instant power-up imaging < 10 seconds
- High-quality imaging (fundamental and harmonic 2D-mode)
- SecureDigital SD memory card for CINE and still-frame image storage
- Industry-standard USB port for information sharing and software upgrades

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