

SIEMENS ACUSON FREESTYLE



ABOUT

The **Siemens ACUSON Freestyle** is a point-of-care ultrasound system with wireless transducers operating over a proprietary 7.8 GHz ultra-wideband radio. The system consists of a 15-inch display console and detachable, battery-powered transducers that communicate wirelessly up to 3 meters from the console. It supports B-mode, Color Flow Doppler Velocity Mode, and Color Flow Doppler Power Mode.

FEATURES

- **Wireless Transducer:** Proprietary ultra-wideband radio enables cable-free scanning up to 3 meters from the console.
- **Battery:** Provides up to 90 minutes of continuous scanning per charge with dual integrated chargers.
- **Integrated Transducer Controls:** Capacitive softkeys and slider on the transducer allow direct system control during scanning.
- **15-Inch Display Console:** High-bright LED LCD with 1024 x 768 resolution in a compact, lightweight form factor.
- **Pixelformer Image Processing:** Beam-free synthetic aperture architecture focuses at each individual pixel.
- **Three Transducer Options:** Interchangeable L8-3 linear, L13-5 linear, and C5-2 curvilinear transducers.
- **Data Storage and Connectivity:** 16 GB solid-state storage with DICOM 3.0, wired Ethernet, and 802.11 b/g wireless networking.
- **Flexible Mounting:** Console supports roll stand, tabletop, or wall-mountable configurations.



SPECIFICATIONS



DIMENSIONS

Height: 335 mm (13.2 in)

Width: 373 mm (14.7 in)

Depth: 121 mm (4.8 in)

Weight: 4.8 kg (10.5 lbs)

DISPLAY

Screen Size: 15 inches (38.1 cm) diagonal

Display Type: High-bright LED LCD

Resolution: 1024 x 768 pixels

Features: Energy-saving display power management; high contrast ratio; wide viewing angles

POWER

Line Voltage: 100 – 240 V (50/60 Hz)

Power Consumption: Maximum 0.08 kVA (may vary with configuration)

Maximum Heat Output: 273 BTU/hr

ENVIRONMENTAL CONDITIONS

Operating Temperature: +10° to +40°C (50° to 104°F)

Operating Humidity: 10 to 75% (non-condensing)

Atmospheric Pressure Range: 700 to 1060 hPa (525 to 795 mm Hg) or up to 3050 m (10,000 ft)

DATA STORAGE

Memory Type: 16 GB solid-state flash memory

Storage Capacity: Approximately 100,000 image frames

Scroll Memory: Up to 512 frames

Cine Capture Length: Up to 18 seconds

WIRELESS SPECIFICATIONS

Frequency Band: Proprietary 7.8 GHz ultra-wideband radio

Minimum Bandwidth: 500 MHz

Maximum Scanning Distance: Up to 3 meters from transducer to system console

Wireless Networking: IEEE 802.11 b/g (Wi-Fi)

Bluetooth: Bluetooth 2.0 Class 2 for bidirectional control data communication

IMAGING CONTROLS

Depth Range: 2 – 24 cm (transducer dependent)

Gain Settings: 16 settings (B-mode)

Near Gain: 10 settings

Post Processing: 5 settings

Dynamic Range: 3 settings

Spatial Compounding: 4 settings

Speckle Filter: 9 settings

Color Gain: 16 settings

Processing Channels: Up to 2,048 channels

SYSTEM INPUT/OUTPUT

Ethernet: RJ45 (10BaseT/100BaseT)

USB: 2 x USB-A

Video Output: VGA (15-pin D-sub miniature) 1024 x 768, 60 Hz/p>

Transducer Cable Adapter: 1

TRANSDUCER SPECIFICATIONS



L8-3

Array Type: Linear

Number of Elements: 128

Depth Range: 2.5 – 9.0 cm

Frequency Bandwidth: 3.0 – 8.0 MHz

Footprint: 38.4 mm x 5.0 mm

Modes: B-Mode, Color Doppler, Amplitude Doppler

Needle Guide Kit available

C5-2

Array Type: Curvilinear

Number of Elements: 128

Depth Range: 8.0 – 24.0 cm

Frequency Bandwidth: 2.0 – 5.0 MHz

Footprint: 13.0 x 67.2 mm (60.0 mm radius of curvature)

Field of View: 64°

Modes: B-Mode, Color Doppler, Amplitude Doppler

L13-5

Array Type: Linear

Number of Elements: 128

Depth Range: 2.0 – 6.0 cm

Frequency Bandwidth: 5.0 – 13.0 MHz

Footprint: 25.6 mm x 4.0 mm

Modes: B-Mode, Color Doppler, Amplitude Doppler

Needle Guide Kit available