

Acuson: world's first wireless ultrasound

- Siemens Healthcare is introducing the Acuson Freestyle ultrasound system that features wireless transducers, eliminating the impediment of cables in ultrasound imaging at Arab Health 2013 in Dubai.
- The system brings to the market a large number of innovations, including acoustics, system architecture, radio design, miniaturization, and image processing.
- The Acuson Freestyle will expand ultrasound's use in interventional and therapeutic applications, where the technology provides numerous workflow and image quality advantages.
- Transducer cables are an impediment to fast and ergonomic examination procedures, but they also present an infection control risk in sterile interventional settings, even when they are covered in sterile sheaths.
- Wireless transducers can expand ultrasound into new and emerging applications, such as administering nerve blocks, enhancing vascular access, and improving target localization through ultrasound guidance during therapeutic interventions and biopsies.
- For image acquisition and processing, the Acuson Freestyle system employs advanced synthetic aperture imaging technology, which produces excellent image quality by focusing on each pixel in the image.
- The device's design reduces its power requirements, increasing battery life.
- Wireless real-time ultrasound data transmission is enabled through the development of a new ultra-wideband radio technology.
- Three wireless transducers are available for the system, covering a range of general imaging, vascular, and high-frequency applications such as musculoskeletal and nerve imaging.
- The user can operate the transducers up to three meters away from the system.

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