



**Native TEQ Dynamic Ultrasound Technology**  
Control-free image optimization

# NTEQ

## Native TEQ Dynamic Ultrasound Technology Control-free image optimization through Native patient specific imaging

Automatic  
Intuitive  
Ergonomic



### Focus on the question at hand

New Native TEQ™ dynamic ultrasound technology automatically and intuitively responds to patient specific information with continuous, hands-free, voice-free gain adjustment. As such, it represents a breakthrough in scanning technology that for the first time fully addresses the labor-intensive demands of cardiovascular ultrasound. As a result, you can concentrate on the clinical question instead of reaching for the keyboard gain control or telling the system what to do. Because now it's done for you.

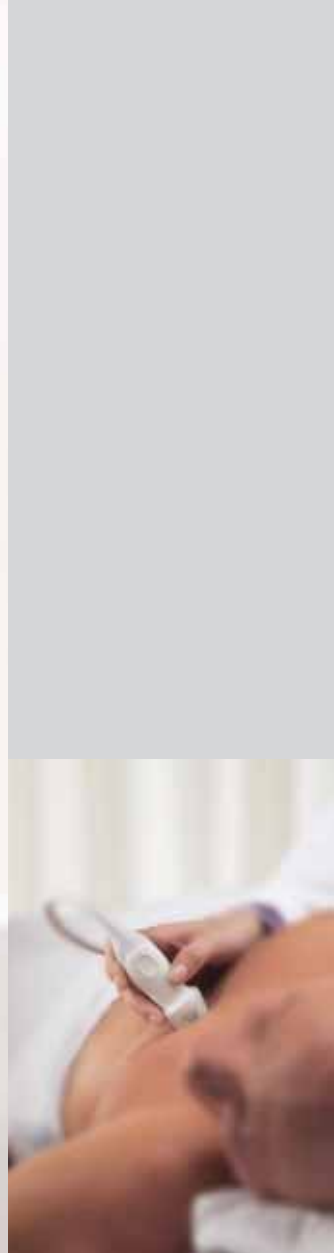
### The next step means fewer steps

Siemens pioneered image optimization with single controls such as simple, one-button TEQ. Now, with the introduction of Native TEQ dynamic ultrasound technology, the need for user intervention in image gain optimization is actually eliminated. Since this technology is integrated in the ACUSON Sequoia™ technology platform,

every sonographer and clinician can now experience the ergonomic benefits of reduced hand motion, optimized exam quality, advanced workflow efficiency and enhanced diagnostic performance.

### Continuous image optimization

Native TEQ dynamic ultrasound technology is based on two automated, synergistic processes: a real-time monitoring function that continuously checks the image for subtle tissue and interface changes, and an optimization function that is instantly triggered when a change is detected in the image plane. The Sequoia system then instantaneously calculates the new optimal settings for overall and depth-related gain, distinguishing between soft tissue, artifacts, noise and specular reflectors. As a result, Native TEQ dynamic ultrasound technology optimizes system performance by modifying patient specific data before the image is formed.



Native TEQ dynamic ultrasound technology uses returned echo information to adjust patient specific gain over the entire image, independent of any region of interest. This unique technology uses Native™ patient specific imaging to dynamically process both axial and lateral gain and is applied before the image is formed.

#### **Taking hands-free to the highest level**

Native TEQ dynamic ultrasound technology significantly enhances efficiency, consistency and diagnostic performance even in the most challenging environments. As an option on the Sequoia echocardiography system, Native TEQ dynamic ultrasound technology provides unparalleled performance across the widest range of environments, patients and applications, every day.

#### **Native TEQ dynamic ultrasound technology**

- Frees the clinician to concentrate on the clinical question
- Significantly improves user ergonomics with dramatically reduced hand motion
- Reduces the human interface interaction necessary to optimize the image
- Accelerates workflow and shortens study time
- Enables more consistent exams
- Provides optimized results independent of user experience level
- Consistently and reliably delivers acoustically balanced images
- Allows automatic image optimization on every patient, from every view, in every application, with every transducer

**For more information on Native TEQ dynamic ultrasound technology with the Sequoia system, please contact your Siemens ultrasound representative.**

Concentrate on the clinical question instead of the keyboard with Native patient specific imaging—hands-free, voice-free Native TEQ dynamic ultrasound technology.

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