

# Vascular Imaging

## REAL SOLUTIONS

Understanding challenges  
Providing answers  
Improving outcomes



The ACUSON X300™ ultrasound system is ideally suited to the diagnostic challenges of transcranial imaging, abdominal, cerebral and peripheral vascular applications. It provides superior image quality along with many Siemens' advanced imaging capabilities in a compact, light-weight design adapted equally to bedside or portable use. DICOM structured reporting and the powerful DIMAQ-IP integrated ultrasound workstation streamline workflow. Lightweight transducers with MultiHertz™ multiple frequency imaging facilitate unparalleled scanning ease and comfort.

## Key Technologies

### SieClear™ Multi-view Spatial Compounding

- Improves contrast resolution, speckle reduction and border detection through use of multiple lines of sight

### Clarify™ Vascular Enhancement Technology

- Reduces noise and artifacts to provide exceptional contrast resolution and clear delineation of micro- and macrovasculature in superficial organs and vessels

### Virtual Format

- Increases anatomical information at the touch of a button with trapezoidal imaging format
- 2D beam-steering improves the angle of insonation especially when access is challenging

### SieScape™ Panoramic Imaging

- Provides extended field of view images acquired with real-time high-resolution 2D-mode imaging
- Allows display and measurement of large structures, providing a global view for orientation

### TGO™ Tissue Grayscale Optimization Technology

- Shortens exam time, reduces repetitive motions and increases diagnostic confidence by optimizing exams consistently—across patients, operators and applications

### syngo® Arterial Health Package

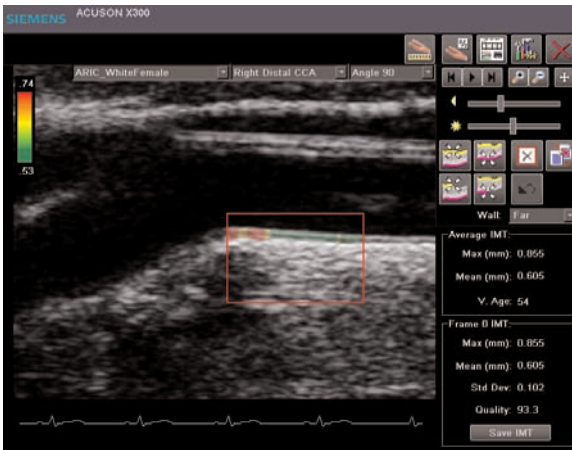
- Features a semi-automated measurement for carotid intima-media wall thickness (CIMT) — a reliable, non-invasive method for quickly evaluating cardiovascular risk

### DICOM Structured Reporting

- Streamlines clinical reporting by automatically transferring patient and calculation data to DICOM vascular reporting packages

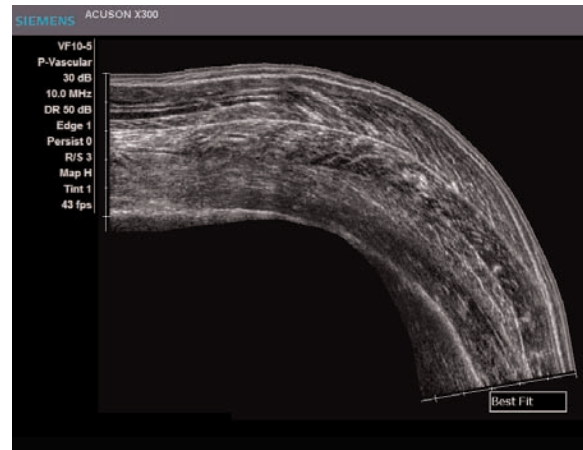
## ACUSON X300 Ultrasound Platform

Versatile portable platform for advanced vascular imaging



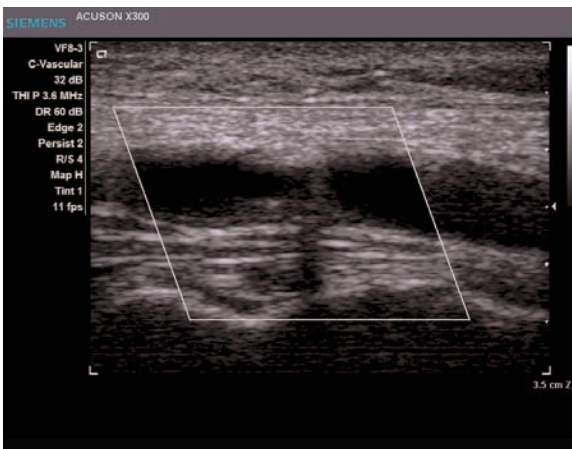
### Carotid Intima-Media Measurement (CIMT)

- Color coded display highlights areas of thickened intima (red) in the distal common carotid artery.



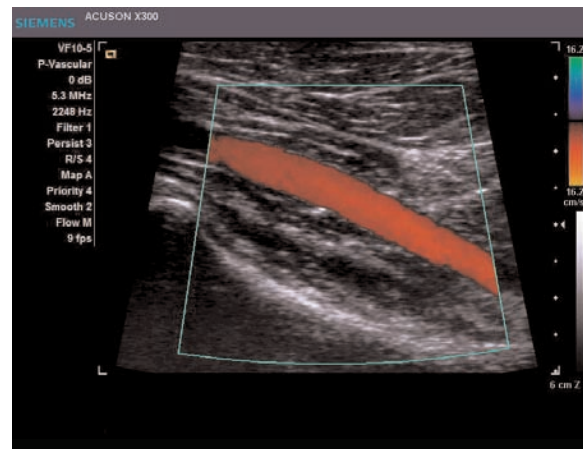
### SieScape imaging

- Provides an extended field-of view in 2D-mode as demonstrated in this lower leg muscle and vessel anatomy.



### Clarify VE Technology

- Removes noise and artifacts to clearly accentuate the extent of disease in this carotid artery.



### Virtual Format Imaging

- Provides trapezoidal imaging, allowing for increased visualization of the popliteal artery.

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