SIEMENS

ACUSON X300 ultrasound system, premium edition

Cardiology



The most versatile, compact platform for today's broad range of cardiac imaging challenges

The ACUSON X300[™] ultrasound system, premium edition (PE) provides exceptional imaging performance across a wide range of cardiac patients. The system includes applications such as stress echo, color M-mode, adult TEE and left ventricular opacification, as well as advanced imaging applications such as intracardiac echocardiography (ICE) are supported for a complete cardiac solution. The system incorporates a full set of quantification tools for spectral and color DTI[™] Doppler tissue imaging and anatomical M-mode. Optional advanced quantification capabilities, imaging applications and specialty transducers enable comprehensive cardiac assessment.

Highlights

• Dynamic TCE[™] Tissue Contrast Enhancement Technology:

Advanced, proprietary, real-time processing algorithm that enhances tissue contrast resolution and reduces speckle, improving border definition.

- Anatomical M-mode: Allows for acquisition of anatomically accurate M-mode by allowing angle correction. Available during live, cineloop and DIMAQ image review.
- ACUSON AcuNav[™] Ultrasound Catheter: Enables procedure visualization and device placement monitoring with a fully functional 8F or 10F intracardiac transducer.
- CartoSound Communication: Enables ethernet communication between the ACUSON X300 PE and the Biosense Webster CartoSound[™] system to enhance visualization and navigation during complicated intracardiac echocardiography imaging procedures.
- syngo[®] Velocity Vector Imaging[™] (VVI) Technology: A sophisticated 2D tracking algorithm that provides accurate rotation, strain and strain rate calculations (longitudinal, circumferential and radial) of myocardial mechanics.
- syngo[®] Auto Left Heart (Auto LH) Technology: Uses progressive pattern recognition technology based on a comprehensive database providing expert-like measurements of ejection fraction, end diastole and end systole volumes of the left ventricle and left atrium.
- syngo[®] fourSight[™] TEE View: Facilitates analysis of complex anatomy in 3D display of cardiac structure and function from unlimited perspectives.
- *syngo*[®] Mitral Valve Assessment (MVA): Renders precise 3D anatomical mapping of mitral valve structure, spatial relationships and blood flow.

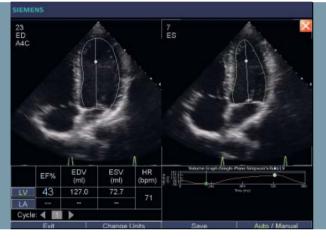


Adult TEE Imaging

• Sensitive color Doppler identifies an incompetent mitral valve.

Anatomical M-mode

Provides off-axis alignment for M-mode measurements.



syngo Auto LH Technology

• Automatically calculates left atrial and left ventricular volumes and ejection fractions.

syngo VVI Technology

• Displays direction, relative velocity and motion measurements at any point in the cardiac cycle.

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Standalone clinical images may have been cropped to better visualize pathology.

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