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.
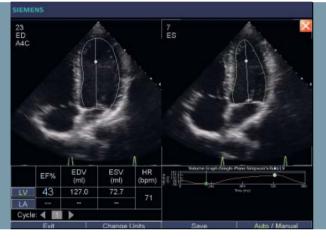
Adult TEE Imaging
- Sensitive color Doppler identifies an incompetent mitral valve.

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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