



Analytical Technologies Color Doppler Echocardiography



ATL 3310 CD

Specification:-

Color Doppler Echocardiography System is required to study the anatomical abnormalities and blood flow in the heart and associated vessels.

Operational Requirements

Latest generation Electronic Phased array Color Doppler system with Minimum 20,000 Electronic independent channels. System is DICOM ready and capable of being interfaced with HIS/RIS/ PACS.

Frequency compounding or better technology for better resolution and penetration.

Technical Specifications

Latest generation Electronic Phased array Color Doppler system with Minimum 20,000 Electronic independent channels.

256 grey shades for sharp contrast resolutions

Adult Transthoracic Cardiac (2 probes) and Vascular probe is supplied which is latest generation wide band transducers

Harmonic Imaging- System has following modes in harmonic with separate setting for:

Tissue Harmonic

Contrast Harmonic

Harmonic Angio



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Strain rate imaging facility

Harmonic imaging capability in Adult Cardiac and linear Probe.

Gain control in two dimensions for additional level of flexibility to image quality control.

Real time high frequency 2D for higher resolution and low frequency Doppler for higher sensitivity in all probes

Frame rate is 300 FPS or more

Steerable PW/CW in all Phased Array probes.

High-definition acoustic zoom for enlarging sections of 2D and Colour flow images with more acoustic information for greater clarity and detail while maintaining an optimal frame rate.

Modes —2D, M-Mode, Steerable PW/CW Doppler, Colour Doppler, and High Definition Colour flow Anatomical M Mode.

Monitor is 15" or more, high-resolution colour Monitor.

Colour Flow Imaging for:-

Increased lateral & spatial resolution.

Detection of even subtle areas of turbulence, displaying a more physiological blood flow appearance without loss of frame rate.

Colour flow with capability of automatically picking up colour flow as a function of focal depth

Tissue Colorization (B-Colour) for improved contrast resolution

Application software for Adult and Peripheral Vascular applications.

Cine loop memory- more than 120MB of memory or equivalent cine loop memory in frames/ sec.

High Frame rate review for better clarity of playback images study in slow motion.

Quad loop with memory for pre and post image comparison of any procedure.

Memory- 256 frames or more in quad loop. M Mode & Doppler Scroll Memory 40 seconds or more.

Various maps for pre and post processing.

ECG trigger facility.

User defined system and application presets for multi-user department.

Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and contrast stress protocol usable for stress echocardiography.

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Tissue movement colorization with quantification possibly for IHD/CAD/Heart Failure patient

Three or more transducer ports.

Colour Map resolution up to 128 levels.

Facility for high definition digital acquisition, review and editing of complete patient studies.

PC based Peripheral system comprising of dedicated computer of standard make, at least 500 GB storage space (Hard disc) with 4 GB RAM or more with a Microprocessor speed of more than 3.00 GHz, frame grabber incorporated interfaced with the echocardiography machine with DVD writer and a high quality Colour Laser printer.

System Configuration Accessories, spares and consumables:-

Colour Doppler System with all application packages Quad loop for serial studies with High frame rate review. Harmonic imaging capability in all modes. (Tissue, Contrast,Anglo) Integrated Stress Echo Package

PC based Peripheral system

Adult Cardiac probe Electronics Phased Array probe

Paediatric Cardiac probe Electronics Phased Array probe

linear probe for vascular application

Online UPS with voltage regulation and spike protection of suitable rating to support main system and all accessories , for 30 min back up.



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