

# Color Doppler Echocardiography

## CDS 3000 SERIES



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

## ▶▶▶ 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 50,000 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

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

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 800 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 18" 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 40seconds or more.

Various maps for pre and post processing.

ECG trigger facility.

2D speckle tracking

Three or more active transducer ports

Colour map resolution upto 128 levels

Real time perfusion studies

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.

▶▶▶ Regulatory compliances



▶▶▶ Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



**Analytical**  
Foundation

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [info@analyticalfoundation.org](mailto:info@analyticalfoundation.org)

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3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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