

ECHOCARDIOGRAPHY

TECHNICAL SPECIFICATIONS

1. Should be a stand alone system integrated on a light weight mobile cart.
2. The system should be a color Doppler Echocardiography all digital beam former system to study the anatomical abnormalities and blood flow in the heart and associated vessels. Should be a stand alone system integrated on a light weight mobile cart.
3. Should be a latest generation Electronic Phased array Color Doppler system with minimum 512 Electronic independent channels.
4. Should have 256 gray shades for sharp contrast resolutions.
5. Should be supplied with adult and pediatric cardiac and vascular probes of wide band transducers without frequency selection for higher sensitivity of response over a broad frequency range of operation.
6. Should have 2D, M-mode, Anatomical M-mode, Color M-mode, PW and CW doppler, Steerable CW doppler.
7. The system should have a very high dynamic range of at least 200dB to pick up subtle echoes.
8. Should have three active ports.
9. Should have 2-4 Mhz broadband phased array sector probe for adult cardiac imaging.
10. Should have 3-8 Mhz broadband phased array sector probe for paediatric and neonatal cardiac imaging.
11. Should have 3-12 Mhz broadband Linear Array probe for vascular imaging.
12. Should have multi frequency convex array probe 3-10 MHz for paediatric imaging
13. Pencil probe (optional)
14. Should have advanced tissue Harmonic Imaging.
15. Should have color flow imaging.
16. Should have color Tissue Doppler Imaging.
17. Should have gain control in Axial Plane.
18. Should have triple imaging possibility on the system.
19. Should have PW/CW Doppler facility in all imaging phased array sector probes.
20. Should have 15" or more high resolution TFT monitor with tilt and swivel facility and should be able to view in all angles and all light conditions.
21. Should have greater than 5000 images in the system hard disk drive
22. Should have in built CD/DVD writer.
23. Should have patient reporting page with embedded images.
24. Should have full functional measurement facility and calculation should be possible.
25. Should be supplied with thermal printer and 6 packs of thermal paper and the unit should have option to connect external printer.
26. Unit should function with 200-240Vac, 50/60 Hz input power supply.
27. Unit should be supplied with suitable UPS with a minimum 30 minutes back-up time.
28. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.