

TECHNICAL SPECIFICATIONS OF HIGH END ULTRASOUND SYSTEM

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| 1. | High end system capable of performing Obs-Gyn, Abdominal, Vascular, Small parts, Musculoskeletal examinations along with Shearwave elastography for liver and Stress-Strain elastography of breast and thyroid. |
| 2. | The system should have following modes: 2D, M mode, PW, Color flow imaging, Directional color power angio imaging, Anatomical M mode, Pulse inversion harmonics, Tissue Doppler imaging, Duplex, Triplex, 3D, 4D imaging. The system should be upgradable to fusion imaging. |
| 3. | Minimum 21" High resolution non-interlaced flat monitor display. |
| 4. | Minimum 10" touch screen. |
| 5. | More than 3,00,000 transmission channels. |
| 6. | The system should have at least 4 active transducer ports. |
| 7. | Cine for 256 frames and Loop review. |
| 8. | System should dual live mode or equivalent. |
| 9. | System should have Panoramic view. |
| 10. | System should have Auto IMT facility. |
| 11. | System should have minimum 256 greyscales. |
| 12. | System should have minimum 1000 fps frame rate. |
| 13. | System should have minimum 30 cm scanning depth. |
| 14. | All transducer should have Broad Bandwidth Beamformer technology for high resolution 2D imaging. |
| 15. | System should have Tissue Harmonic Imaging. |
| 16. | System should have softwares for noise and artifacts reduction that improves conspicuity and margin definition. |
| 17. | Dynamic range of 180 dB or more. |
| 18. | System should have auto optimization features and auto quantification of Doppler parameters in real time and freeze mode. |
| 19. | Pan zoom on freeze and live mode. |
| 20. | Facility for independent steering on B mode and Color mode. |
| 21. | Easy to use control panel with up-down & sideways movement with alphanumeric keyboard. |
| 22. | System should have image management software. Images should be able to stored, retrieved, transferred and can be viewed in thumbnail. |
| 23. | System should have minimum 500 GB image storage facility. |
| 24. | System should have DVD / CD R-W and USB port for image transfer. |
| 25. | System should have DICOM facility. |
| 26. | The system should have measurement package for General Imaging, Obs-Gyn, Vascular imaging, Elastography, 4D and Musculoskeletal imaging. System should have STIC for fetal echo studies. |
| 27. | System should have contrast imaging. |
| 28. | The system should be upgradable to Fusion technology. |
| 29. | The system should be US FDA approved. |
| 30. | Following Probes should be quoted: a. Convex probe with Shearwave liver elastography 2-5 MHz b. Endocavity probe 4-9 MHz c. Linear probe with Elastography 3-9 MHz d. Linear probe for superficial imaging 5-16 MHz e. Micro convex f. Volume convex |
| 31. | System should be upgraded with free software upgrades from time to time. |
| 32. | Data sheet of the system should be provided along with the quote. |
| 33. | System spares and service should be available for next 7 years from the date of purchase. |
| 34. | Thermal printer and a DICOM Color printer to be supplied. Both should be compatible with the system. |
| 35. | Air condition of a good quality of 1.5 Ton to be provided. |
| 36. | Examination couch & Operator chair should be supplied. |
| 37. | Warranty of 5 years to be provided. |
| 38. | After warranty CMC & AMC per year rates to be quoted. |

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