

## USG Machine, Portable

Description of Functions: A general purpose portable ultrasound imaging system with data storage, Offline measurement, Annotation, Gain, Depth, Zoom, etc. on the saved Images & Videos.

Operational Requirements: It shall operate on AC power supply as well as built in rechargeable battery.

System Configurations: A portable USG system with a convex probe & B/W video printer(Sony/Mitsubishi).

#### Technical Specifications

- a. It shall come with a custom made trolley on castors to hold the main unit on top with provision of a probe holder and drawers for storage of probes, printer and ultrasound gel.
- b. Main applications: Abdomen, Obstetrics, Gynecology, Urology, Cardiology, Pediatric, Small Parts, Blood Vessel, Superficial, Orthopedic, MSK, Nerve, Cephalic, etc.
- c. Shall feature minimum of 12" color anti-flickering LCD display.
- d. Probe connector: at least 2 activated probe connector.
- e. Scan Modes: B-Mode, B-Steer, 2B/4B -Mode, M -Mode, B/M-Mode, PW/CW -Mode, Anatomic M Mode, Panoramic imaging, Trapezoidal (Linear probe), THI Mode, CW -Mode, Pure Inversion Harmonic (PIH), etc.
- f. Grayscale levels: 256.
- g. Shall have function to reduce patch noise and other image artefacts without compromising quality of images.
- h. Dynamic range shall be selectable up to 200dB.
- i. The system shall support digital medical imaging features like DICOM Storage, DICOM Work list, DICOM MPPS, etc.
- j. Shall have at least 3 USB ports for connectivity & file transfer.
- k. The system weight must be  $\leq 6.5$  Kg, including battery.

#### Accessories & Consumables

- a. The system shall be inclusive of 1 convex probe, 1 original trolley & 1 video printer.
- b. All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.

Operating Environment: The system shall operate under various conditions of purchaser's country with power supply of 220 – 240 VAC, 50Hz fitted with appropriate plug.

Standards & Safety Requirements: Must submit ISO13485 for Medical Devices, CE and USFDA approved product certificate.

Warranty: Comprehensive warranty for 1 year after acceptance.

Preferred Brands:Chison, EDAN, Mindray, Sonoscape, Zoncare