

## Technical Specifications : video camera for laparoscope

- 1- High Definition VIDEO CAMERA 3 CHIP for Laparoscope *with following features and componenets:*
- 2- High Definition Digital Three-Chip Medical –Video –Camera-, with integrated Digital Image Processing
- 3- Camera head should be Auto-clavable
- 4- Should be fully compatible to the color systems PAL & NTSC.
- 5- Should have the facility of Digital Image Processing by means of an integrated Image Processing Module. Multiple settings allow the user to select the preferred level of image enhancement.
  - (a)-Digital contrast enhancement
  - (b)-Digital anti-moire/ anti-grid filter for use with fiberscopes
- 6- Should have Zoom lens system
- 7- Should have the additional facility of Electronic 2 x zoom, selectable in 4 steps.
- 8- Integrated Still Image function.
- 9- High horizontal image resolution of more than 750 lines, therefore even the finest variations in tissue structures are perceivable on a high-resolution monitor.
- 10- Automatic white balance with memory functions for two settings.
- 11- Multilingual menu system
- 12- Character generator
- 13- Composite, S – VHS and RGB compatibility
- 14- World power supply
- 15- 2 or more programmable function keys on the Camera head for control of camera functions or video printer/ recorder functions and other peripheral units.
  
- 16-Image sensor : HD 3CCD – Chip
- 17-Resolution : > 750 lines (horizontal)
- 18-Signal-to-noise ratio: > 60 dB
- 19-AGC: Microprocessor Controlled
- 20-Min.Sensitivity: 3 Lux (f 1.4) in standard mode
- 21-Lens : Zoom Lens, f= 25mm -50 mm
- 22-Video output Composite, S-video & Digital Video Interface Signals

**23- XENON LIGHT SOURCE** - High intensity Xenon light source with spare Xenon lamp with following features:

- (a) High light intensity with 300 watt Xenon Lamp
- (b) High colour temperature – more than 5500 K corresponds to brightness of sunlight resulting in high visual and photographic clarity for colour rendition.
- (c) Lamp type- Xenon lamp, 300 watt
- (d) Colour temperature > 5500 K
- (e) Light outlets- 1
- (f) Light intensity adjustment- continuously adjustable from 0 to 100 %
- (g) Xenon bulb life minimum 500 hrs

**24- FIBER OPTIC LIGHT CABLE:** Qty -1\_ Size should be 3.5 mm, length >160 cm

25-Equipment Must be FDA Approved.

26-Principal company should have service centre in India

27- Vendor has to support the specifications with manufacturer's brochure failing which offer will be rejected. Vendor has to demonstrate the equipment within specified time limit, if asked for; failing which offer will be rejected.