

## **SPECIFICATIONS OF ENT OPERATING MICROSCOPE**

### **MICROSCOPE BODY**

1. Motorized Zoom Magnifications system with apochromatic optics.
2. Magnification up to 18X or better activated by hand grip and with manual override.
3. Internal Motorized fine focusing system, activated by hand grip control continuously.
4. Adjustable working distance from 200mm to 400mm or more through singular continuous variable without exchange of objective lens, manual override, integrated continuously variable illumination field spot size.
5. Binocular stereo co-observation system movable in all axis for assistant surgeon / teaching purpose.

### **BINOCULAR TUBE**

1. 180 degree or more tiltable or straight binocular tube.
2. Graduated knob for continuous adjustment of interpupillary distance from 55mm to 75mm.

### **EYE PIECE**

1. Pair of wide field push in eye piece 10X/12.5 X.
2. Dioptre setting from -8 D to +5 D or better.

### **ILLUMINATION SYSTEM**

1. Illumination shall be integrated with latest generation tri LED, should also provide natural color boost at high intensities comparable to Xenon intensities.
2. Backup illumination with tri LED illumination with independent power supply.

### **HANDGRIPS**

1. Easily removable handgrips with adjustable keys for zoom, focus and recording and light intensity adjustment.

### **FLOOR STAND**

1. Rollable heavy Floor stand with locking device with four easily ground cleared movable castors.
2. Manipulation to any position with locking for trouble free operation.

### **DIGITAL VIDEO CAMERA SYSTEM**

1. Fully Integrated Full HD (1080p) camera for video documentation without any external attachment of modules or cables, with or without video output for slave monitor.
2. Colour monitor should be integrated in the microscope body suitable for connection to PC.
3. Medical grade monitor 20 inches or more compatible with camera.
4. Compatible fully integrated digital video recording device and still photography with direct recording on USB hard drive and pen drive and optional networking facility. Should be supplied with inbuilt 1TB or more storage device.
5. There should be a suitable output for attachment to the outside system for demonstration.

6. Must give 2KVA UPS of reputed make with 15 minutes or more back up along with microscope.
  7. Microscope should be compatible for LASER use.
  8. Microscope should be able to have good tissue contrast.
- Should have protection from voltage fluctuation and surge.
  - Power requirement 220-240 volts 50 Hz.
  - Any other accessory must for smooth functioning of the equipment.
  - Sterile drapes- 50 numbers.
  - Rate per sterile drape may be freezed for 5 years for future use.
  - Should be BIS /US FDA/CE CERTIFIED.
  - Physical demonstration should be provided.
  - Comprehensive Warranty of minimum 5 years.
  - CMC for 5 years on expiry of Warranty should be quoted.