

OPHTHALMIC OPERATING MICROSCOPE

1. MICROSCOPE:

- Compact microscope body with high quality & complete apochromatic optics with 1:6 zoom ratio. Magnification factor 0.4X to 2.4X for continuous magnification.
- Focusing range : 65 to 68 mm, Objective lens f = 175 to 200mm.
- Tilttable Binocular tube: 0-180 degree inclinable.
- Eye Pieces: 10x to 12.5x with dioptric adjustment from +5D to -5D or more.
- Deep View: Depth of field management system for optimal depth perception & maximum light transmission.
- Inter – pupillary distance 55 to 75 mm.

2. ASSISTANT MICROSCOPE

- Assistant microscope with stereo co-axial co-observation tube with beam splitter 80:20/70:30 in the microscope body for additional stereo co-observation attachment.

3. ILLUMINATION:

- Type of illumination: LED / Halogen / Xenon
- Stereo Coaxial Illumination system, availability of red reflex switching in/out facility.
- Should have heat absorbing and UV Filters, retina protection device and contrast enhancement aperture.

4. X Y COUPLING:

- Motorized foot-controlled X-Y coupling with 40 mm x 40 mm or more, automatic re-centering.

5. Mounting and adjustments:

- Wireless/wired water proof foot-control.
- Motorized foot-controlled Zoom and focus with re-centering of focusing position through foot control.
- High quality floor stands with long spring balance suspension arm with effective length of 1 Meter or more having good load bearing capacity of at least 10 kg or more.
- Floor stand should be rust free floor standing type with fiber wheels. With manual friction breaks and clutches/ Magnetic brakes and clutches.
- Stand should have touch screen LCD display.
- Stand should have within built lamp housing with two lamps, automatic Lamp changeover facility in case of failure of main lamp.

6. Accessories, spares and consumables:

- Camera: Full HD camera integrated in the body of the microscope, with recording facility from same manufacturer.
- HD recorder with USB port, 1 TB HDD, HD LED TV 32 inch or more.
- Spare bulbs: 2.
- Detachable and sterilizable caps for knobs: 2 sets
- Cover for microscope: 01
- Suitable online UPS with at least 30 minutes back-up
- All the other standard accessories shall be provided.
- It should be compatible with BIOM and image inverter attachment for posterior segment surgery.

7. Operating Environment

- The product offered shall be designed to be stored and to operate normally under standard Power Supply, Climate, Temperature, Humidity etc.
- Power supply: 220 - 240V, 50Hz fitted with appropriate plug. The power cable must be at least 5 metre in length.

8. Standards and Safety Certificates

- Warranty: Comprehensive warranty for 5 years with further 5 years of CMC after the warranty period.
- User (Operating) and service manual in English.
- List of important spare parts and accessories with their part numbers and costing.
- USFDA/European CE with four digit notified number/BIS approved.
- Demonstration to be given inhouse for the technical acceptance of the equipment.
- Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/Para number of catalogue/data sheet.
- Standards and Safety certificates (including electrical safety) to be provided.