

SPECIFICATION FOR UPRIGHT TRINOCULAR MICROSCOPE

Annexure-A

Upright Trinocular Microscopes with LED with Fluorescence Attachment and Microscopic Digital Camera

1. Optical System: Plan Infinity Strain Free optics with Anti-fungus treatment, uniformly centered, interchangeable & Parfocal and with Multi-layer Coating & Anti – Fungus treated for component durability microscope with Parfocal and Centered Strain Free Optics
2. Body: Aluminum die-cast body with Hexagonal base to give greater stability & all critical movement based on ball bearing and wire guides thereby ensuring smooth and precise manipulation , optics should be anti-fungus treated for component durability
3. Mechanical Stage: Co-axial low drive with Rackless mechanical stage (125mm x 145mm) (+/- 5mm) with traverse area of 50mm x 76mm (+/- 5mm) Mechanical stage focus-lock prevents slide mishaps with double side holder. Ocular Micrometer and stage micrometer need for measurement of specimen should be available in optional.
4. Focusing Systems: Co – axial coarse & fine controls with a focus adjustment and fine adjustment knobs. Coarse Focus range 20mm. Fine focus 0.25mm per rotation
5. Condenser: Centerable abbe condenser with aperture iris diaphragm (N.A. 1.25) focusable with rack & pinion and a continuously variable iris diaphragm with a removable frosted glass filter for daylight observation
7. Illumination: Built – Illumination base with pre – centered 3W LED Light source High brightness, long life (30,000hrs) coupled with an efficient collector lens system. Universal power supply 100 V-240V 50/60Hz through SMPS circuit for constant voltage to prolong lamp life
8. Nose piece: Quintuple revolving inward nosepiece based on precision ball-bearing mechanism with positive click stop.
9. Plan achromat objectives (Anti – fungus): Plan Infinity Strain Free (PISF) optics

4X	0.10	18.5 mm
10X	0.25	10.6 mm
20X	0.45	2.4 mm
40X (spring loaded)	0.65	0.6 mm
100X (oil, spring loaded)	1.25	0.13 mm

Uniformly centered, Interchangeable & Parfocal Anti – fungus treated not favoring to fungus growth
11. Observation tube: Trinocular 30° inclined Siedentopf, 360° rotatable, Butterfly head, Left diopter adjustment Observation Head with an anti – reflection optical coating of the prism (to enhance the image brightness)
12. Eyepiece (wide field) for observation: WH 10x (FN 20mm) paired eyepiece.
13. Can be upgradeable to Epi – Fluorescence minimum one filter, Simple PH attachment and simple Polarizer Analyzer attachment
14. Power requirement 220 V/50 Hz
15. Should be ISO, CE certified/FDA and Anti fungus Treated certificate
16. Accessories, dust cover and power cord.
17. Epi – LED (BG) – REFLECTED DUAL LED FLUORESCENCE LIGHT ATTACHMENT

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(WITH FRONT SELECTION OF FILTER CUBE & SWITCHING LED SWITCH) WITH 480nm BLUE & 535nm GREEN EXCITATION FOR IMMUNOFLUORESCENCE TESTS.

18. Specifications: 2.0 Mega Pixel CMOS Camera with Sony Exmor sensor having sensor size of 1/2", Resolution: 1920 X 1080, suitable for Fluorescence & Bright Field Imaging, frame rate of 125 @ 1920 X 1080 , pixel size 3.75 X 3.75 um, Binning 1X1, USB 3 port for faster data transfer,

comes with a software for point to Point measurement, auto white balance, auto exposure option, basic setting: Gain, Gamma, Contrast, Auto white balance, optical Port : C-Mount compatible with Windows 10. Packing includes: 2.0 MP Camera, C-Mount adapter 0.5x, USB 3 cable, calibration slide

19. 3-year warranty

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