

# Pathological Research Microscope Type: ACUBL-U1

#### DESCRIPTION

ACUCAL Pathological / Biological Microscopes are Compound Research Microscopes which is best suited for pathological purpose. Pathological Microscopes that are primarily used to observe and study organism and microorganisms. These Microscopes are usually used to observe transparent and translucent objects, such as animal and plant cells , tissues, bacteria as well as various kinds of tiny particles by means of sectioning.



### APPLICATIONS

- To Detect acid fast bacilli in sputum smear and other materials for use in Tuberculosis Control Programme.
- Widely used in Hospitals, Laboratories, Schools, Wastewater treatment plants, Veterinary, Histology and Pathology.
- To View blood cells, cheek cells, parasites, bacteria, algae, tissue, and thin sections of organs.
- To view samples that cannot be seen with the naked eye.



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### TECHNICAL SPECIFICATION

Main Body: Upright Modular Frame, Highly rigid, non hinged type, vibration free Aluminium alloy casting, Anti rust heavy metal stand, Sturdy & Stable with built in transmitted light LED power supply & Brightness Control integrated in the base. Robust mechanics combined with improved optical performance. All optical parts including objectives, eyepieces, and prisms should have an anti-reflective coating which also gives an anti-fungal property. -----**Optical System :** Plan Finite, Anti Fungus coated Prism Conforming to Pathological IS:4381 latest, Research IS:5204 latest Indian Standards • **Observation Head : Monocular or Binocular or Trinocular** Observation head inclined at 45°. 360° rotatable. • Diopter adjustment Facility on one ocular tube. Inter-pupillary distance from 54mm to 74mm. • Vertical phototube for micro photography. (In Trinocular) • Eyepiece : Huygenian or Compensating Wide field 10X (paired), Antifungal. Binocular eyepieces confirming to the requirements of IS : 8275 / 1976( latest). -----Nose Piece : Ball Bearing loaded, interchangeable, Inward Quadruple type, Precise & Positive click stops for centered alignment to hold 04 objectives. Rubbered grip for easy rotation mounted on a precision ball bearing mechanism for smooth and • accurate alignment. **Objectives: SEMI PLAN Achromatic Or Achromatic, Interchangeable & Par-focal, Antifungal** 4X (NA 0.10) 10X (NA 0.25) • 40X (SL, NA 0.65) 100X (SL,Oil, NA 1.25) • Objectives have Suitable prominent marking for easy identification: magnification, NA • Provided with Immersion oil. • Mechanical Stage: Coaxial Graduated uniformly horizontal Mechanical Rectangular Stage with fine Vernier Micrometer graduation. Mechanical Stage Size 125x120mm, smooth travel for slide manipulation. • Maintenance free built in Low position /Low drive right handled movement. • Ball Bearing Loaded with soft feel drive with Coaxial Control. • . . . . . . . . . . . . . . . . **Condenser :** Centerable Abbe Condenser NA 1.25 with Aspheric Lens. Continuously variable Iris Diaphragm, Suitable for Bright field. • \_\_\_\_\_ Focusing Control : Precise and Separate coarse and fine focusing controls with ergonomically placed knobs on both directions, Ergonomically designed for easy grip. Illumination : Halogen or LED 3W, 3V illumination with variable control having Universal SMPS based Input 100-240 V AC, 50/60 Hz, built-in voltage stabilizer. Standard Accessories : Operating Manual, Dust Cover, Styrofoam Molded pack

Email: acucalservices@gmail.com

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Phone: +91-9034125607