

### DESCRIPTION

ACUCAL Inverted Biological microscope is equipped with excellent Universal Infinity System (UIS) optical system, wide field eyepieces, long working distance plan achromatic objectives and very long working distance condenser. Compact & steady main frame body is embodiment for shock resistance. The ideal ergonomics design is adopted in this unit and have easier operation & wide space. It can observe transparent and unfinished living specimen in culture bottle or culture utensil. It can be used in scientific research institutes, universities, medical treatment, agriculture and epidemic prevention, etc.



### TECHNICAL SPECIFICATION

#### Main Body

- Compact & steady main frame Ergonomic Design, Highly rigid, Non Hinged type, vibration free Aluminum alloy casting, Robust mechanics combined with improved optical performance.

---

#### Optical System

- Plan Infinity, Anti Fungus coated optics

---

#### Observation Head

- Side n top Binocular Observation head 45° inclined, 360° rotatable.
- Inter-pupillary distance from 53mm to 75mm.

---

#### Eyepiece

- Compensating Wide field 10X (paired) F.O.V. 22mm

---

#### Nose Piece

- Quintuple, Ball Bearing loaded, interchangeable, Precise, Positive click stops for centred alignment.

---

#### Objectives: Infinity Plan Achromatic, Anti-fungus, Interchangeable & Par focal

- PLL 10X (N.A. 0.25), Cover glass thickness 1.2mm
- PLL 20X (N.A. 0.40) , Cover glass thickness 1.2mm
- PLL 40X (N.A. 0.60) , Cover glass thickness 1.2mm
- PLL 10X (Phase Contrast) (N.A. 0.25) , Cover glass thickness 1.2mm

---

#### Mechanical Stage

- Mechanical Stage 227\*208mm, Glass Round Stage Dia. 118mm, Moving Range 77\*114mm, Moving Stage Detachable.
- Culture Dish Holder-1, 86mm (W)\*129.5 (L), For Circular Culture Dish Dia.87.5mm (Optional)
- Culture Dish Holder-2, 34mm (W)\*77.5 (L), For Circular Culture Dish Dia.68.5mm (Optional)
- Culture Dish Holder-3, 57mm (W)\*82mm

### Condenser

- Long Working Distance 55mm, Turnable Type, For Phase Contrast View.
- Continuously variable Iris Diaphragm with swing in and swing out filter holder.

---

### Focusing Control

- Coaxial Coarse & Fine Focus Knob, With Tension Adjustable And Limit Stopper, Minimum Division 0.002mm, Ergonomically designed for easy grip.

---

### Illumination

- Kohler Illumination, 6V30W Halogen Lamp, Brightness Adjustable.

---

### Electronics

- Universal Input 100-240 V AC, 50/60 Hz.

---

### Standard Accessories

- Operating Manual, Dust Cover, Guarantee Card and Styrofoam Molded pack.

---

### Optional Accessories

- High Resolution Microscopy Camera, Eyepieces, Objectives.
- 

## FEATURES

- Equipped with phase contrast unit, include long working distance condenser, phase contrast objective and centering telescope
- 6V 30W halogen lamp with brightness control.
- Wide field eyepieces, long working distance plan achromatic objectives
- Coaxial coarse/fine focus system with tensional adjustable and up stop, minimum division of fine focusing: 2 $\mu$ m
- Offers high resolution images of the cells, tissue & other biological specimens.
- It is widely used in tissue culture & other life science industry for research & quality purpose.