

DESCRIPTION

Stereozoom microscopes are optical microscopes that give a three-dimensional (3-D) view of a sample and generally operate at low magnification. The 3-D image allows surfaces to be examined with greater clarity and permits the precise manipulation of samples during magnification.



TRINOCULAR HEAD



BINOCULAR HEAD

ACUPSZM-850 is a research level Stereo Zoom Microscope with infinite Parallel Galileo optical system. Based on Galileo optical system and PLAN Achromatic objective, it can provide real and perfect microscopic images on details. The excellent ergonomics and user-friendly operating system can truly allow users to experience a simple and comfortable work.

Stereozoom microscopes are used in food science, marine biology, embryology, environmental science, and forensic science. In pharmaceutical and biotechnology labs, stereozoom microscopes are commonly used for magnifying biological samples such as plant tissues and organ samples. In Veterinary stereozoom microscopes are used for vitro tissue/embryo culture purpose. Wider industry applications include microsurgery, geology, and microelectronics, including the examination of circuit boards and microchips.

TECHNICAL SPECIFICATION

Optical System & Design Principle

- Common Main Objective (CMO) & Parallel Zoom Optical Path based Stereoscopic with **Galilean optical system with right and left independent having PLAN Achromatic Infinity Corrected & Lead Free Optics for Research.**
- Bright Field & Dark Field Observation mode.

Observation Head : Binocular (ACUPSZM850B) Or Trinocular (ACUPSZM850T)

- **Standard Outfit** : Fixed Binocular Observation head inclined at 20°, rotatable at 360°.
- Inter-pupillary distance adjustment from 55mm to 75mm.
- Vertical phototube by Beam Splitter for micro photography & documentation with C Mount adaptor (For Trinocular Head only)
- Trinocular Observation Tube 2 steps optical path selectable 100:0, 50:50.

Eyepiece

- Focusable Compensating Lead Free Wide field 10X (paired) / 22mm with Diopter adjustment facility in both eyepieces, Rubber Eye shields/Guards, distortion- free, adjustable with exchangeable eyecup & ESD Compatible.
- Having proper pupil aberration control and appropriate positioning in the eye point for comfortable observation.

Objective (Mounting Screw Type)

- Infinity-corrected, lead-free, Distortion- free PLAN Achromatic Objective 1X, Outer Dia 60mm, Working Distance 78mm.

Zooming Range & Ratio

- Horizontal Handle Knob system Zoom Drive, without Lead, with possibility on-off switching, with Click stop for repeatable task & Manually adjustable Zoom 0.8 X to 5.0X with magnification ratio of 7:1

Magnification Range

- 8X-50X with 10X eyepiece & 1X objective

Mechanical Body

- Track stand with fan type big base & Clip for holding specimen with glass & White-Black plate.

- Diascopic & Episcopic i.e. Transmitted and Reflected (Incident) LED light Microscope Focusing Stand with glass plate.
- Large Focusing Knob on both sides with tension adjustable.
- Thread Type Objective Mounting Screw.

Illumination System (Diascopic & Episcopic)

- Incident and transmitted light systems with LED lamps having long lifetime and constant colour temperature at any intensity.
- Regulated power supply for both lights with separate brightness controls.
- ON-OFF switching possible separately for both reflected and transmitted illumination.

Electronics : Universal Input 220 ± 20 volts, 50-60Hz, single phase AC supply.

Standard Accessories : Operating Manual, Dust Cover, Guarantee Card and Styrofoam Molded pack.

FEATURES

- High quality optical components, providing sharp and striking contrast image and ensure flat image at big depth of field.
- Ease the tiredness with ergonomic design.
- With LED light for both incident and transmitted illumination, Providing even illumination.
- With complete eyepieces, objectives and accessories it is an ideal instrument for industry assembling, inspection and teaching field.

OPTIONAL ACCESSORIES

- Objectives : 0.3X , 0.5X & 2X
- Wide Field Eyepieces : 15X/Ø16, 20X/Ø12 & 30X/Ø8



Fibre Optics Illumination
LED or Halogen



Ring Illuminator :
LED or Fluorescent



Fluorescence
Attachment