

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 solid surfaces to be examined with greater clarity and permits the precise manipulation of samples during magnification.

**What is Fusion Optics:**

ACUCAL Plan Optics Stereo Zoom Microscope offers Fusion Optics technology which puts a high resolution image at the highest possible Numerical Aperture to the right eyepiece and a large depth of field image to the left. The result is Outstanding Richness of Details and Outstanding Depth of Field. In many industrial applications, Stereozoom Microscope with this technology provide new and better possibilities of examining and evaluating microstructures of material, components and products.

APPLICATION

- 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 Biological studies & microsurgery, geology, Zoological research work, Forensic research work, Forensic research work (Biological specimen examination) & Life Science (Fisheries).
- In Polarising studies of thin Sections, polished Sections, microfossils, mineral grains, rock samples, drill cores, micromounts, fossils) with modular zoom head for configuration flexibility.
- Wider industry applications including the examination of circuit boards and microchips. Working & inspection of Printed Circuit Boards with uneven electronics & soldering surface.

TECHNICAL SPECIFICATION**Optical System**

- Greenough Plan Optics Zoom based Stereo Microscope with fully Plan Achromatic & Lead Free fusion optics providing plan field of view and large depth of field.
- Specialized Parfocal corrected optics that combines High Resolution for Ideal 3D Optical Images.

Observation Head

- Inter-pupillary distance adjustment from 50mm to 76mm.
- Observation Tube inclined at 45°, rotatable at 360°.
- Vertical phototube for micro photography with 100%:0% beam splitter.

Eyepiece

- Diopter adjustment facility in both eyepieces suitable for both eyeglass and non eyeglass wearers.
- Compensating, High Eye point, Distortion- free & adjustable with exchangeable eyecup.
- Focusable Extra Wide field 10X (paired) F.O.V.23mm, Field Number 23
- Focusable Extra Wide field 15X (paired) F.O.V.16mm, Field Number 16 (Optional)
- Focusable Extra Wide field 20X (paired) F.O.V.12mm, Field Number 12 (Optional)
- Focusable Extra Wide field 30X (paired) F.O.V.8mm, Field Number 8 (Optional)

Objective :

- Inbuilt & 1X Objective
- 0.5X Objective (Optional)
- 2X Objective(Optional)

Zooming Range & Ratio

- Zoom 0.6 X to 5.5X with Optical Zoom ratio of 9:1,Manually operable.

Optical Magnification Range

- 6X-55X with 10X eyepiece pair and inbuilt 1X Objective.

Working Distance

- 115mm with 1X Objective

Mechanical Body

- Plain Track stand with fan type big base & Clip for holding specimen.
- Transmitted & Reflected LED Focusing Stand with glass plate & Black and white plate.
- Coaxial Focusing knobs on both sides with tension adjustable.

Illumination System (Diascopic & Episcopic)

- High Power Incident/Reflected and Transmitted Light Base light systems with white LED lamps having lifetime of more than 50000 hrs.
- Regulated power supply for both lights with separate brightness controls & ON/OFF.
- Additional Reflected multiple LED's based ring light illumination or Double Spot Illuminator, with high brightness 5600K,(Optional)
- Integrated power unit 12V DC 24W/100...240V AC/50...60Hz

Standard Accessories

- Operating user Manual, Antistatic Polymer 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 with Sharply focused over the whole magnification range.
- Ease the tiredness with ergonomic design.
- Providing even illumination With LED light & Compatible with multiple types of illumination techniques.
- With complete eyepieces, objectives and accessories it is an ideal instrument for industry assembling, inspection and teaching field.
- Large Field of view and apochromatic correction with Extended Working distance
- Efficient stray light suppression for crisp three dimensional images.
- User interchangeable Apochromatic front optics
- Double your resolution or enjoy large working distance without compromising optical quality.
- Flexible with different digital cameras.
- Designed for vibration free observation and heavy workloads, using durable and reliable mechanics.
- Continuous variable zoom or in reproducible mode by activating click stops well balanced 3D impression
- Ergonomically user friendly than any other Greenough-type stereo microscope
- Antibacterial surface treatment for Anti fungus from preventing contamination from dust, oil and water.

OPTIONAL ACCESSORIES

- Plan APO Objectives: 0.5X , 0.7X & 2X
- Wide Field Eyepieces: 15X/Ø16, 20X/Ø12 & 30X/ Ø8



Fibre Optics Illumination:
Halogen/LED



Ring Illuminator :
Halogen/LED



Polarizer/Analyzer