

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 specimen to be examined with greater clarity and permits the precise manipulation of specimen during observed magnification.



Acucal Stereo Zoom Microscopes are used in **Drosophila research**, Fly and zebra fish work, food science, marine biology, embryology, environmental science, and forensic science. In pharmaceutical and biotechnology labs, stereomicroscopes are commonly used for magnifying biological samples such as plant tissues and organ samples. Wider laboratory & research applications include microsurgery, geology, and microbiology, including the examination of micro gens and microbes.

TECHNICAL SPECIFICATION

Optical System

- Greenough Stereoscopic with Plan Achromatic optics

Observation Head

- Observation head inclined at 45° rotatable at 360°.
- Diopter adjustment ring on ocular tube (± 5).
- Inter-pupillary distance from 52mm to 75mm.

Eyepiece

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

Zooming Range & Ratio

- Click stop Zoom 0.8 X to 5.0X with magnification ratio of 6.3:1

Magnification Range

- 8X-50X
- 4X-200X with Additional Optics.

Working Distance

- 115 mm

Mechanical Body

- Track stand with fan type big base & Clip for holding specimen.
- Base size is 285mm X 238mm.
- Base specimen plate size $\Phi 125$ mm (Glass & Black-White)
- Focusing through large knob on both sides.

Illumination System

- Incident and transmitted light systems with LED lamps.
- Regulated power supply for both lights with separate brightness controls.

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 and life expectancy can reach 60000 hours.
- Tailored for industrial & laboratory site inspection. Very Rugged, easy to use & simple to maintain.
- With complete eyepieces, objectives and accessories it is an ideal instrument for industry assembling, inspection and teaching field.

OPTIONAL ACCESSORIES



Fibre Optics Illumination
LED or Halogen



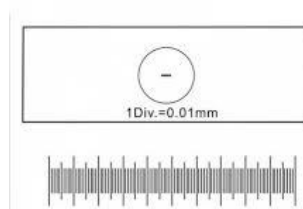
Ring Illuminator :
LED or Fluorescent



Polarizer/Analyzer



Dark Field Attachment



Calibration Slide



Micrometer Eye Piece

OPTIONAL ADDITIONAL OPTICS

- Eyepieces : WF 15X/Ø16 & WF 20X/Ø12,
- Plan Auxiliary Objectives: 0.5X , 0.7X & 2X ,



OPTICAL DATA (WIDE RANGES OF OPTIONS & CONFIGURATIONS)

Auxiliary Objective	Working Distance (mm)	EYEPIECE					
		WF 10X/22		WF 15X/16		WF 20X/12	
		Total Magnification	Visual Field (mm)	Total Magnification	Visual Field (mm)	Total Magnification	Visual Field (mm)
	115	8-50X	27.5-4.4	12-75X	20.0-3.2	16-100X	15.6-2.5
0.5X	220	4-25X	55.0-8.8	6-37.5X	40.0-6.4	8-50X	31.2-5.0
0.7X	125	5.6-35X	39.3-6.3	8.4-52.5X	28.6-4.6	11.2-70X	21.4-3.4
2X	45	16-100X	13.8-2.2	24-150X	10.0-1.6	32-200X	7.8-1-3