

#### 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.

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

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

##### Trinocular Observation Head

- Binocular Observation Tube inclined at 30°, rotatable at 360°.
- Vertical phototube for micro photography 100%:0% beam splitter.
- Inter-pupillary distance adjustment from 50mm to 75mm.

##### Eyepiece

- Extra Wide field 10X (paired) F.O.V. 23mm with Diopter adjustment facility in both eyepieces, Rubber Eye shields/Guards,
- Micrometer Reticle with 0.1 mm Least count. (Optional)

##### Zooming Range & Ratio :

- Click stop Zoom 0.6 X to 5.0X with magnification ratio of 8.3:1

##### Magnification Range

- 6X-50X
- 3X-300X with Additional Optional Optics.

##### Working Distance :115 mm

##### Mechanical Body

- Track stand with fan type big base & Clip for holding specimen.
- Diascopic Focusing Stand with glass plate.
- Large Focusing knobs on both sides with tension adjustable.

##### Illumination System (Diascopic & Episcopic)

- 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 6000 hours.
- With complete eyepieces, objectives and accessories it is an ideal instrument for industry assembling, inspection and teaching field.

#### OPTIONAL ACCESSORIES

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



Fibre Optics Illumination  
LED or Halogen



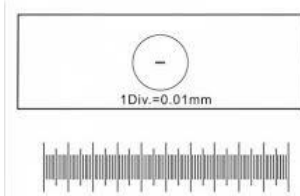
Ring Illuminator :  
LED or Fluorescent



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	6-50X	38.3-4.6	9-75X	26.6-3.2	12-100X	20.0-2.4
0.5X	220	3-25X	76.6-9.2	4.5-37.5X	53.2-6.4	6-50X	40.0-4.8
0.7X	125	4.2-35X	54.7-6.5	6.3-52.5X	38.0-4.6	8.4-70X	28.5-3.4
2X	45	12-100X	19.1-2.3	18-150X	13.3-1.6	24-200X	10.0-1.2