

DESCRIPTION

Stereomicroscopes are useful for applications that require three-dimensional examination and when the perception of depth and contrast is significant to understanding the structure of the sample.



The 3-D image allows samples to be examined with greater clarity and permits the precise manipulation of samples during magnification in a big and comfortable working space. The broad field of view and variable magnification provided by stereomicroscopes is additionally helpful for biological research.

APPLICATION

These microscopes are also utilized in various disciplines such as education (biology, chemistry, botany, geology, and zoology), medicine, and pathology. Another application of this device is in the observation of opaque thick objects where the transmission of light is impossible for example rocks, coins, insects, etc. Stereomicroscopes are generally used in various industries like the semiconductor business, circuits, metallurgy, textiles, microsurgery, geology, and microelectronics and different enterprises that require assembly and assessment of miniature parts including the examination of circuit boards and microchips.

Stereomicroscopes are irreplaceable in countless numbers of applications ranging from the production business, quality control, and materials research to forensics research science, Drosophila research, Fly and zebra fish work, C elegans research work, Colony Morphology, food science, marine biology, embryology, environmental science biotechnology, genetic sciences, food science, marine biology, embryology, environmental science, and almost all fields of biomedical research. The microscope is also used extensively in zoology, botany, entomology, histology, geology, mineralogy, and archaeology and dermatology tools of research and anatomy. It can also assist the palaeontologists during the procedure of cleaning and studying fossils.

TECHNICAL SPECIFICATION**Optical System**

- Greenough Optical Stereoscopic System provide true stereo viewing, allowing for a three dimensional view of samples.
- Excellent optical quality with high resolution, contrast and color fidelity, to provide clear & accurate images.

Observation Head : Trinocular

- Observation tube inclined at 45° rotatable at 360°.
- Inter-pupillary distance adjustment from 52mm to 75mm.
- In Trinocular Head : Vertical phototube for micro photography with built – in C-mount 0.55 x magnification lens. Light Distribution is 50:50% for simultaneous view on Microscope & Computer

Eyepiece

• Diopter adjustment facility ± 5 in both eyepieces suitable for both eyeglass and non eyeglass wearers.	
• Builtin Reticule Holder with 0.1mm least count (Optional)	
ACUSZMPEP10X22	• Extra Wide field 10X (paired) F.O.V.22mm, Field Number 22
ACUSZMPEP15X16	• Focusable Extra Wide field 15X (paired) F.O.V.16mm, Field Number 16 (Optional)
ACUSZMPEP20X12	• Focusable Extra Wide field 20X (paired) F.O.V.12mm, Field Number 12 (Optional)

Zooming Range & Ratio

ACUSZMZRA	• Manual 0.8 X to 5.0X with Magnification Zoom Ratio 6.3:1, • Click stop at 0.8x,1x,2x,3x,4x & 5x
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Magnification Range

ACUSZMM850	• 8X-50X with 10X eyepiece pair and inbuilt 1X Objective. • 4X to 300X with Combination of different eyepiece & objectives used. (Optional)
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Objective (Thread Mounting Screw Type): PLAN Achromatic, lead-free, Distortion- free

ACUSZMOBJ1XA	• Objective 1X (Inbuilt)
ACUSZMOBJ0.5X	• Objective 0.5X (Optional)
ACUSZMOBJ2X	• Objective 2X (Optional)

Working Distance : Long working distance of 110 mm for viewing and manipulation of samples without interchangeable optics.

Mechanical Body

- Track stand with fan type big base, column & Clip for holding specimen.
- Base size is 285mm X 238mm & Pillar Height 120mm (Or customized)
- Base specimen plate size $\Phi 125$ mm (Glass & Black-White) ESD Compatible.
- Focusing through large knob on both sides with tension adjustment facility.

Illumination System

- Incident and transmitted light systems with LED lamps.
- Regulated power supply for both lights with separate brightness controls.
- Uniform and consistent illumination across the entire field of view.
- Incident Light : 3.3 Watt LED 30° oblique illumination.
- LED Service Life : Approx 30000 hours
- Light Quality: Homogeneous daylight (6500°K). Free of UV and IR emissions.

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

Standard Accessories : Operating Manual, Dust Cover, 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.
- Optics and accessories are made with Eco-friendly Lead & Arsenic Free material.
- With LED light for both incident and transmitted illumination, Providing even illumination and life expectancy can reach 30000 hours.
- Tailored for industrial site inspection. Very Rugged, easy to use & simple to maintain.
- Anti-electrostatic for higher yields & Anti Fungus from preventing contamination from dust ,oil and water.
- With complete eyepieces, objectives and accessories it is an ideal instrument for industry assembling, inspection and teaching field.
- Highly durable made of made of High quality materials to withstand constant rough use and rough handling in a laboratory environment.
- Anti-mold Design to ensure protection from contamination while working in hot & humid environments.

OPTIONAL ACCESSORIES



Fibre Optics Illumination
LED or Halogen



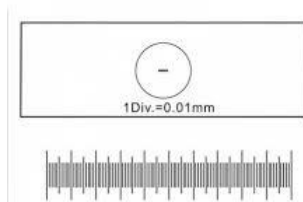
Ring Illuminator :
LED or Fluorescent



Polarizer/Analyzer



Dark Field Attachment



Calibration Slide



Micrometer Eye Piece

AVAILABLE OPTIONS



Binocular Head



Trinocular Head



Flat Base

PHOTOS CAPTURED



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