

DESCRIPTION

Stereomicroscopes 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.

**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 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**

- 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 head inclined at 45° rotatable at 360°.
- Vertical phototube for photography display through System, (System/Laptop).
- Inter-pupillary distance from 52mm to 76mm.

Eyepiece

	• Diopter adjustment facility 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
ACUSZMPEP20X12	• Focusable Extra Wide field 20X (paired) F.O.V.12mm, Field Number 12

Zooming Range & Ratio

ACUSZMZRA	• Manual Continuous Zoom , without click stops, (0.65 X to 6.5X) $\pm 0.5X$ with Magnification Zoom Ratio 10:1
ACUSZMZRB	• Manual Continuous Zoom , without click stops, 0.65 X to 8X with Magnification Zoom Ratio 12:1
ACUSZMZRC	• Manual Continuous Zoom , without click stops, 0.5 X to 5.5X with Magnification Zoom Ratio 11:1

Magnification Range

ACUSZMM665	• (6.5X-65X) $\pm 5X$ with 10X eyepiece pair and 1X Objective. • 3X to 390X with Combination of different eyepiece & objectives used. (Optional)
ACUSZMM680	• 6.5X-80X with 10X eyepiece pair and inbuilt 1X Objective. • 3 X to 320X with Combination of different eyepiece & objectives used. (Optional)
ACUSZMM555	• 5X-55X with 10X eyepiece pair and 1X Objective. • 2.5X to 330X with Combination of different eyepiece & objectives used. (Optional)

Objective (Thread Mounting Screw Type): Achromatic or PLAN Achromatic or PLAN Apochromatic Infinity-corrected, lead-free, Distortion- free

ACUSZMOBJ1XA	• Objective 1X (Inbuilt) , NA 0.10
ACUSZMOBJ0.5X	• Objective 0.5X (Optional)
ACUSZMOBJ1.5X	• Objective 1.5X (Optional)
ACUSZMOBJ2X	• Objective 2X (Optional)

Working Distance

- Long working distance of 110mm -120 mm for viewing and manipulation of samples without interchangeable optics.

Performance Parameters

- Depth of Field: 10 mm.
 - Field of View: 36 mm
- Optical Resolution: 600 lp/mm

Mechanical Body

- Base specimen plate size 200mm x 200mm having Glass & Black-White with Clip provision for holding specimen.
- Pillar stand with Manual Mechanical Stage with transmitted light base and Incident Light arrangement.
- Focusing through large knob on both sides.
- Coarse handle stroke per rotation 36.8mm, Fine handle stroke per rotation 0.77mm.
- Co axial Coarse and fine Focusing through large knob on both sides.(Optional)

Illumination System

- Incident/reflected and transmitted light systems with LED lamps.
- Regulated power supply for both lights with separate brightness controls.
- Life span of above 60,000 hrs.
- Additional reflected illumination by Ring type arrangement for uniform illumination OR LED Dual-gooseneck.(Optional)

Standard Accessories

- Cable, Photo Adapter, Stage Plate , 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 30000 hours.
- Tailored for industrial 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.
- Highly durable made of made of High quality materials to withstand constant rough use and rough handling in a laboratory environment.

OPTIONAL ACCESSORIES



Fibre Optics Illumination
Halogen



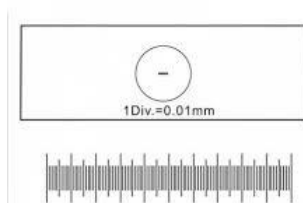
Ring Illuminator:
LED or Fluorescent



Polarizer/Analyzer



Dark Field Attachment



Calibration Slide



Micrometer Eye Piece

OPTIONAL ADDITIONAL OPTICS

- Eyepieces : WF 15X/Ø16 & WF 20X/Ø12 & WF 30X/Ø8



- Plan Auxiliary Objectives: 0.3X, 0.5X, 0.7X, 1.5X & 2X



ACUCAL SERVICES
901A/6, Ashok Vihar
Ambala City-134003
Web: www.acucalservices.com

