

#### DESCRIPTION

**S**tereomicroscopes are optical microscopes that give a three-dimensional (3-D) view of a sample and generally operate at low magnification. Stereo Zoom Microscope can provide crystal clear sharp images with high resolution and good depth within a broad field of view. Once brought in focus, image remains clear and sharp throughout the whole zoom range.



Stereomicroscopes are used in 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 industry applications include microsurgery, geology, and microelectronics, including the examination of circuit boards and microchips.

#### TECHNICAL SPECIFICATION

##### Optical System

- Greenough Stereoscopic with **Achromatic** optics Non Hinged Type with built in light and with light intensity controller.

##### Trinocular Observation Head

- Research Trinocular head inclined at 45° rotatable at 360°.
- Vertical phototube for micro photography.
- Diopter adjustment ring on ocular tube ( $\pm 5$ ) of both eyes.
- Inter-pupillary distance from 54mm to 76mm.

##### Eyepiece

- **Compensating** Wide field High Eye Point **10X** (paired) F.O.V. 20mm.
- Compliant to IS:8275/1976 (Latest)

##### Numerical Aperture

- NA 0.25

##### Zoom Range (Optics) & Ratio

- Continuous Zoom 0.7 X to 45X with Zoom ratio of 6.3:1

##### Magnification Range

- 7X-45X

##### Working Distance

- 100 mm

##### Mechanical Body

- Universal Boom stand with Ball Bearing for accommodating larger work pieces.
- Dual Arms for stability.
- Bonder Arm with **Coaxial Coarse & Fine focusing** knobs to hold Trinocular Head

#### Illumination System

- Reflected illumination of White LED Ring Light with suitable power adaptor for 230V with brightness control facility.

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#### Standard Accessories

- Operating Manual, Dust Cover, Guarantee Card and Styrofoam Molded pack (storage cases), lens cleaning kit, power supplies, cables, adaptors, rubber guard for eyepiece and connectors.
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### 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.
- 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.

### OPTIONAL ACCESSORIES



Fibre Optics Illumination  
LED or Halogen



Ring Illuminator :  
Fluorescent



Polarizer/Analyzer