

7X-90X Binocular Stereo Zoom Microscope w/Multi-Zone 144 LED on Compact Pillar Stand

SKU: SM-IBNY-144A

Asking; \$450.00



Magnification

7X-15X 3.5X-45X 7X-135X 3.5X-90X 7X-90X 3.5X-100X

Camera Type

none selected

USB 2.0 1.58 3.4

Camera Pixels

none selected

Key Features

- 7X-90X extended zoom magnification using high-quality Greenough stereoscopic objective lenses and a 2X Barlow lens.
- Continuous zoom magnification
- Super widefield optics offer crystal clear images with a large field-of-view
- Sturdy pillar stand with a small footprint and extended, beveled front edge
- The 144-LED ring-light uses a power module with four subdivisions to produce either directional light or an encompassing ring of light.

DESCRIPTION

This is a binocular stereo zoom microscope with a compact stand with 12" pillar. The stand's base has an extended, beveled front edge for comfortable hand placement. The microscope incorporates all the most excellent features of a high quality laboratory instrument. Designed to meet the demands of modern microscopy applications, this microscope exceeds all expectations. It comes with SUPER widefield optics and basic table stand. This microscope offers high resolution and good depth within a broad field of view. It provides crystal clear sharp stereo images with a 4" (100mm) native working distance. Its 45 degree inclined ocular tubes ensure an easy observation and rubber eyeguards provide further comfort.

The stereo optics provide clear, sharp images with excellent focus-depth and a large working-distance. With 0.7X-4.5X zoom objectives, moving through the magnification range is as easy as turning a knob. 10X wide-field eyepieces provide an ample magnification range from 7X to 45X, with high-eyepoint optics to accommodate glasses or goggles. A 2X Barlow lens is included, which can be mounted to the objective housing to double the magnification range to 14X-90X. This will also result in decreased working distance. The combined magnification ranges provide 7X-90X.

This microscope is useful for many applications. It can be used in gemology, geology, forestry, archaeology, agriculture and biology. It is appropriate for educational purposes in hospitals and schools. It is great for the exploration of the world of surface details and fine structures of various materials like wood, metal, solder, semiconductor and gemstone. It is perfect for the examination of insects, plants, rocks, stamps, coins, jewel, soldered points, microelectronic components, circuit boards or virtually any three dimensional objects. This scope is an ideal tool for research labs, gemologists, collectors, engravers, watchmakers, jewelers, dies-makers, philatelists, and anyone in semiconductor or electronic industry.

This package includes a 144-LED ring-light with quadrant-control for bright and cool illumination. This lightweight illuminator mounts to the microscope's objective housing, and projects a smooth, encompassing field of light over objects, eliminating most shadows. When you need some shadows to bring out more details, the power-controller provides control over four subdivisions to manipulate the directionality of the light. You can cast light from the top, bottom, or either side in order to bring out the necessary topological details. Whether used as the sole light-source or in combination with additional illuminators, the ring-light produces a crucial light pattern for virtually any application. Energy-efficient and producing low heat, this ring-light can be used with biological specimens as well as industrial.

Features :

- 0.7X-4.5X Continuous Zoom Objective Lenses
- 30mm Super Widefield Oculars
- 4" (100mm) Large Native Working Distance
- 45 Degree Inclined Binocular Head
- Crystal Clear Original True Color Images
- Erect Sharp Stereo Images over a Super Widefield of View
- High Resolution with Great Flatness and Contrast
- Accurate Alignment Ensuring Fatigue-Free Comfortable Observation
- Both Ocular Tubes with Adjustable Diopters
- Adjustable Interpupillary Distance
- Full Optical Glass Elements
- Precise Ground Glass Lenses
- Metal Pillar Stand Finished with Stain Resistant Enamel
- Extended, beveled front edge of stand base allows comfortable hand placement
- All Metal Mechanical Components

Packing List:

- One binocular stereo microscope head
- 10X eyepiece(s)
- One 2X Barlow lens
- One pair eye-guards
- One stand base
- One stand pillar
- One focusing block
- One pair stage clips
- One black/white stage plate
- One hex wrench
- Screws and washers
- One LED ring-light
- One power controller
- One power cable
- One ring-light mounting adapter

Specifications

Microscope Head

Head Type	Binocular, 45° incline, 360° rotatable
Optical System	Greenough stereoscopic
Interpupillary Adjustment	Compensation-free gemel, 54-76mm
Ocular-port Diameter	30mm
Dioptric Adjustment	Both oculars, ±5dp
Eyepieces	10X
Objective Lenses	0.7X-4.5X zoom
Objective Numerical Aperture	0.065 @ 4.5X 0.02 @ 0.7X
Objective Resolution	195 lp/mm @ 4.5X 60 lp/mm @ 0.7X
Native Field-of-View (10X Eyepieces)	4.4mm-28.6mm
Native Working Distance	100mm
Auxiliary (Barlow) Lens	2X, 30mm working distance
Stand	
Stand Type	Pillar stand with large base
Stand Dimensions	Base: 12.5"x10"x0.75" (320x280x20mm) Pillar 12" (300mm) height, 1.25" (32mm) diameter
Focusing-block Focus Range	50mm
Stage Plate Diameter	95mm