

## Z12 Microscope Series

ZOOM STEREO MICROSCOPE

- Galilean Optical System With Apochromatic Common Main Objective for High Resolution & Excellent Color Visualization
- Variable Zoom Drive Magnification System With Parallel Optical Axis For Flexible Performance
- Ergonomic, Tilting Trinocular Viewing Head for Extreme Comfort In Operation



The new Z12 Zoom Stereo Microscope from UNITRON offers best-in-class performance and value for industrial and life science applications. The Galilean optics design and apochromatically-corrected objectives deliver crisp, high resolution images at all magnifications. With a 12.5:1 zoom range and several stand and illumination options, the Z12 can be configured to meet the demands of both industrial and life science applications.

## SPECIFICATIONS

<b>Optical System</b>	Galilean optical system. Variable zoom magnification system with parallel optical axis; zoom drive system: horizontal handle. Apochromatically corrected common main objective. Click-stops for various zoom positions incorporated – manual, user can turn this feature on or off
<b>Viewing Body</b>	Choice of ergonomic tilting trinocular viewing head, 5° - 45° adjustable (0:100 or 100:00 viewing split), or 30° fixed angle trinocular viewing head (50:50 viewing split)
<b>Anti-Mold</b>	Anti-mold, air-tight design
<b>Magnification</b>	Zoom ratio: 12.5:1; Magnification 0.63—8.0x with click-stops Magnification indications at 0.63, 0.8, 1.0, 1.25, 1.6, 2.0, 2.5, 3.2, 4.0, 5.0, 6.3, 8.0
<b>Working Distance</b>	80mm (with 1.0x objective); 20mm (with 2.0x objective)
<b>Interpupillary Distance</b>	52mm—75mm
<b>Camera Adaptability</b>	0.35x, 0.50x, 0.65x and 1.0x C-mount adapters
<b>Eyepieces</b>	WF10x/23mm FOV focusing eyepieces with built-in diopter adjustment and roll-down eyeguards (eyepiece accepts a 26.5 mm reticle) <i>Optional:</i> WF15x/16mm focusing eyepiece with built-in diopter adjustment and eyeguard; WF20x/12mm focusing eyepiece with built-in diopter adjustment and eyeguard
<b>Auxiliary Objectives</b>	S-APO 1.0x objective, N.A. 0.1, W.D. 78mm <i>Optional:</i> S-APO 2.0x objective, N.A. 0.2, W.D. 20mm; objective holder to mount and interchange two objectives
<b>Stands</b>	Choice of diascope transmitted light base with 360° sliding/tilting mirror (as shown on front) with 24 watt LED fiber optic illuminator with flexible gooseneck, slim profile LED transmitted light stand with adjustable color temperature, or Plain focusing stand
<b>Optional Accessories</b>	LED ring lights, fiber optic lights, 150w halogen fiber optic illuminators
<b>Optional Digital Camera System</b>	Excelis™ and Lumenera® CCD and CMOS cameras

*Design, features and specifications are subject to change without notice.*

## Optical Data Table, Resolution & Numerical Aperture

MAIN OBJECTIVE	WORKING DISTANCE	RESOLUTION (lp/mm)	NUMERICAL APERTURE (N.A.)	EYEPIECE			
				10X/23mm	15X/16mm	20X/12mm	
1.0X	78mm	300	0.1	Total Magnification	6.3x-80x	9.45x-120x	12.6x-160x
				Field of View (mm)	34.92-2.75	25.40-2.0	19.05-1.5
2.0X	20mm	600	0.2	Total Magnification	12.6x-160x	18.9x-240x	25.2x-320x
				Field of View (mm)	17.46-1.38	12.70-1.0	9.52-0.75