

Z SERIES STEREO MICROSCOPES



INNOVATIVE OPTICS

UNPARALLED PERFORMANCE

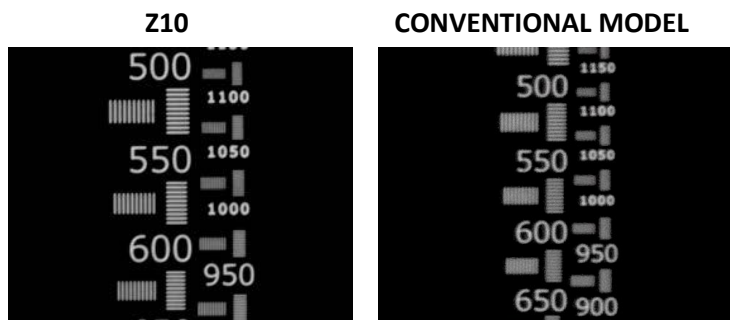
SUPERB ERGONOMICS

Utilizing state of the art design and advanced lens coating techniques, the Z series provides users with both a high magnification imaging stereo microscope and a low power macro-imaging stereo microscope--all bundled into one system. Specialized optical coatings provide for crisp, 3d images with a large dept of focus for biological and industrial applications.

DISTORTION FREE PARALLEL OPTICAL SYSTEM

Producing images with reduced distortion that are inherent in some stereo microscopes was the top consideration for the Z series scope. Carefully selected optical glass and glass coatings matched to each objective and internal glass surface provide for an image free from Aberration and Distortion.

Each Z series microscope is a Parallel Optical Design-producing images unmatched in the industry. Coupled with the coatings used on the optics, the Parallel Optical design provides for superior resolution and increased line pairs rarely seen from a Stereo Microscope in this class.



In addition, the enhanced depth of focus provides an in-focus image for thick specimens. This allows for users to view their samples at the highest spatial resolution and most accurate color reproduction all with a single, in focus image.

WIDE ZOOM RANGES

The Z series microscope offer a wide zoom range to allow for low-magnification macro imaging to high-magnification observation of minute structures.

Z10 10:1 Zoom Ratio with 0.8x -8.0x magnification range with 7 defined zoom steps

Z8 8:1 Zoom Ratio with 0.8x- 6.4x magnification range with 7 defined zoom steps

Z6 6:1 Zoom Ratio with 0.8x - 5.0x magnification range with 7 defined zoom steps

All Z series microscopes have co-axial zoom controls with positive click stops at every 1x assuring users of reproducible results for repeated examinations. The positive click stops also allow the user to know the specific magnification being used without removing their eyes from the specimen and interrupting their work flow.

SELECTABLE OBJECTIVES

All Z series microscope have a wide variety of interchangeable objective to choose from. Each objective is carefully designed to provide both a par-centric image as well as a par-focal image as the user zooms through the entire zoom range. This eliminates the constant refocusing during use but also eliminates the re-positioning of the sample as you zoom.

Users can select from 0.3x, 0.5x, 1x, and 2x objectives as standard magnifications and upon request, we offer 0.75x and 1.5x third party objective choices.



To enhance the zoom range of your Z series microscopes, we also offer a Dual Objective Nosepiece module that allows the user to mount 2 objectives on the scope simultaneously. This nosepiece has positive click stops to ensure par-centricity between objectives and is par-focal to maintain focus.



MODULAR UPGRADEABLE DESIGN

As all Z series microscopes are a 2 piece module system, the user can select what options to add and when to add them. You no longer are required to purchase options today that you may not have an immediate use for. With the Z series, you simply purchase the module and functionality as your needs demand.

Epi-fluorescence is an optical module with high transmission coatings on all internal glass to provide a bright, even illumination of all specimens. A 4 position slider allows for multiple dyes and wavelengths to be used on the scope and a universal mount allows for the use of LEDs, Metal Halide, Mercury or Xenon Illumination sources.



Other intermediate modules and techniques available include:

*Episcopic Polarization

*Diascopic Polarization

*Co-Axial Illumination

ERGONOMIC EYETUBES

Designed as a modular system, the Z series microscopes is offered with an Ergonomic Tilting Viewing body that offers a tilt range from 0-30 degrees. This Ergo Viewing body provides a comfortable position that allows the user hours of strain free operation. In addition, the adjustment angle of the eye-tube allows users to use the scope on a bench where the user may stand at times. This eye-tube has a 180 degree rotation feature.

A fixed low profile 20 degree angle viewing tube is also available.



STANDS AND BOOM ARMS

The universal design of the Z series scopes offers the wide choice in stands. Users can select any number of the standard bases or one of our custom stands.

PLAIN STAND



TOP\BOTTOM LED STAND



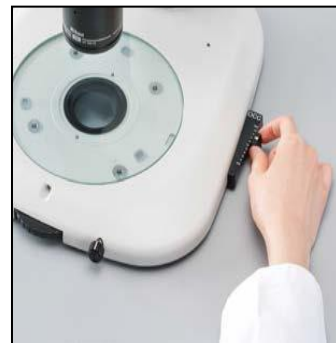
DIASCOPIC TRANSFER STAND



BALL BEARING BOOM



CONTRAST STAND (3rd PARTY)



DIGITAL IMAGING MADE SIMPLE

With the optional Dual Port Module, adding an HD or Digital Camera to your Z series scope is a breeze. The Dual Port module allows the user to direct the image to the camera screen for live teaching, viewing or image capture while keeping BOTH eyepieces on the scope live and in focus--unlike other systems that use one of the eyepieces for the camera system.

The VDHD6m High Definition (HD1090p) camera mounts directly to your Z series stereo scope providing a head up viewing system with HD image capture for still images as well as live movies--all without the need for a computer.



Z SERIES SPECIFICATIONS

Optical System:	Parallel Optical System	
Zoom Ratio\Range:	Z10 - 0.8x-8.0x Continuous Variable Zoom with 10:1 Zoom Ratio Z8 - 0.8x-6.4x Continuous Variable Zoom with 8:1 Zoom Ratio Z6 - 0.8x-5.0x Continuous Variable Zoom with 6:1 Zoom Ratio	
Viewing Eyetubes:	Ergonomic Tilting Binocular with 0-30 Degree Inclination: 180 Degree Rotatable Low Profile Binocular: 180 Degree Rotatable Standard 20 degree Inclination Binocular	
Eyepieces:	CWF 10x : 24mm F.O.V CWF 15x : 16mm F.O.V	CWF 10x : 22mm F.O.V CWF 20x : 12.5mm F.O.V
Objectives:	0.5X Plan APO: NA .06 WD 126mm 0.75x Plan APO: NA .078 WD 107mm 1.0x Plan APO: NA .10 WD 70mm 0.3X Plan Achromat NA .03 WD 280mm 0.5X Plan Achromat: NA .05 WD 189mm 1.0x Plan Achromat: NA .09 WD 78mm 1.5x Plan Achromat: NA .15 WD 44mm 2.0x Plan Achromat: NA .02 WD 32.5mm	
Camera Adaptability:	Beam Splitter with 2 Positions (100\0 : 80\20) Dual Port Beam Splitter with 3 Positions (100\0 : 80\20 : 0\100)	
ESD Protection:	Viewing body is made from anti-electrostatic material	
Stands:	Plain focusing stand Ball Bearing Boom Stand	Integrated LED stand Contrast Stand (3rd party)
Light Sources:	LED with adjustable light guides	LED Ring light
Optional Modules:	Iris Diaphragm Episcopic and Diascopic Polarization Epi-Fluorescence Module Co-Axial Illuminator Teaching\Dual View Module	