

NEW Model Z850 Stereo Zoom Microscope Series

- High performance optics at an affordable price
- Excellent zoom range 0.8x-5.0x
- 115 mm working distance for easy access to specimens
- Binocular or trinocular viewing heads are inclined 45° and can rotate 360°

The Z850 Series is a versatile, high performance, ergonomically designed zoom stereo microscope ruggedly built to withstand years of heavy use. With a zoom ratio of 6.3:1 the Z850 provides superior optical performance at an affordable price.

These Microscopes are supplied in several complete systems with either Trinocular or Binocular zoom bodies and six different stand options.

Select from the plain focusing stand or the LED illuminator stand. The booms stands do not have illumination, but permit working with large objects.



LED Illuminator Stand

Simultaneous variable reflected and transmitted LED illumination can be utilized on this stand. The compact, thin design of the base allows users to keep sample positions low and maintains easy accessibility to the variable light controls. The reflected LED illuminator is powered by a 12 volt, 2 watt LED system and the transmitted LED illuminator by a 12 volt, 4 watt LED system. Both light sources are variable and controlled by a universal power supply (110–240V).



Plain Focusing Stand

The Plain Focusing Stand's thin design helps keep sample positions low resulting in increased user comfort. The focus mount is easily removable and can be positioned at two different points on the dovetail to offer maximum flexibility when working with small or large size samples.

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Boom Stand

The boom stand features safety tracks on the horizontal arm and Delrin® inserts in the focus block to ensure smooth, precise movements.



Articulating Swing Arm Stand

Designed for maximum freedom and flexibility this stand will deliver the adjustability you need. Ideal for the inspection of specimens that require a lot of movement or to scan a large sample area, the articulating arm can be easily adjusted into hard to reach positions and moved easily out of the way.



Ball Bearing Boom Stand

For users seeking precise, stable movements the ball bearing boomstand is the recommended choice. Sturdy and ruggedly built, the ball bearing boom stand is ideal for observation applications where magnification adjustment and the ability to move across a sample are important considerations.



Diascopic/Embryo Transfer Stand

This cost-effective transmitted illumination stand provides bright, even illumination across the entire magnification range. A tiltable mirror provides direct and oblique illumination for low contrast specimens. This unit can be configured with either a 6V, 20W halogen illuminator or 150W fiber optic illuminator.

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Specifications

Viewing Body

Optical System	Twin zooming objective
Viewing Bodies	Binocular or Trinocular with 50/50 light split
ESD Protection	Viewing body is made from anti-electrostatic materials
Anti-Mold	Anti-mold and airtight design
Magnification	0.8x to 5.0x with click stops at 1x, 2x, 3x, 4x and 5x
Zoom Ratio	6.3:1
Working Distance	115 mm (4.5 in)
Viewing Angle	45 degrees
Interpupillary Distance Adjustment	52-75 mm
Camera Adaptability	0.4x or 0.5x C-mount adapters, photo tube
Eyepieces (with diopter adjustment)	WF 10x/22 mm with reticle holder (Reticle size: 27 mm), WF 15X/16 mm with reticle holder (reticle size: 20 mm), WF 20x/12.5 mm
Auxiliary Objectives	0.5x (211 mm working distance) and 2.0x (43.5 mm working distance)

Stands

Plain Focusing Stand	76 mm focus mount diameter, 100 mm focusing stroke, 240 x 290 x 318 mm (9.4 x 11.4 x 12.5 in) (LxDxH), 125 mm black & white plate
LED Reflected/Transmitted Illuminated Stand	76 mm focus mount diameter, 100 mm focusing stroke, 240 x 292 x 318 mm (9.4 x 11.5 x 12.5 in) (LxDxH), 100 mm clear glass and black & white plate. Variable Transmitted & Reflected LED illumination. Average LED life expectancy - 7,000 hours, Color temperature: 6200-7000° Kelvin
Diascopic Stand with Transmitted Illumination Attachment	76 mm focus mount diameter, 100 mm focusing stroke, 255 x 310 x 382 mm (10 x 12.2 x 15 in) (LxDxH), 280 mm clear glass plate. Tiltable mirror provides direct and oblique illumination. Choice of 6V, 20 W halogen or 150 W fiber optic illuminators
Pole Stand	76 mm focus mount diameter, 305 mm pole height, 193 mm focusing stroke, 240 x 290 x 318 mm (9.4 x 11.4 x 12.5 in) (LxDxH), 125 mm black & white plate
Boom Stand	Base dimensions: 254 x 254 mm (10 x 10 in), Vertical Post - 365 mm, Horizontal Post - 518 mm. Physical weight 37 lbs. (16.8 kg)
Ball Bearing Boom Stand	Base dimensions: 254 x 254 mm (10 x 10 in), Vertical Post - 394 mm, Horizontal Post - 585 mm. Physical weight 42 lbs. (19 kg)
FlexArm/Swing Arm Stand	The Swinging Arm has a 3 ft scanable range and a lockable 14.5 in vertical motion range with an adjustable counterbalanced support. Horizontal or vertical clamp mount

Eyepiece Specifications

Auxiliary Objective	Working Distance (mm)	WF 10x/22		WF 15x/16		WF 20x/12.5	
		Total Magnification	Visual Field Total (mm)	Total Magnification	Visual Field Total (mm)	Total Magnification	Visual Field Total (mm)
-	115x	8-50x	27.5-4.4x	12-75x	20.0-3.2x	6-100x	15.6-2.5x
0.5x	211x	4-25x	55.0-8.8x	6-37.5x	40.0-6.4x	8-50x	31.2-5.0x
2x	43.5x	16-100x	13.8-2.2x	24-150x	10.0-1.6x	32-200x	7.8-1.3x

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Order #	Product
W4 64-1802	Trinocular Zoom Stereo Microscope on LED stand Incident & Transmitted ESD Trinocular viewing head, 50/50 light split, 0.8x to 5.0x zoom range, inclined at 45°, 115 mm W.D., interpupillary distance adj. 52-75 mm, glass lens shield Widefield 10x eyepieces with built-in diopter adjustment (paired), 22 mm field of view Variable LED incident (12v/2w) and transmitted (12v/4w) focusing stand with stageclips, universal power supply Frosted, clear glass, black & white stage plates, dust cover and manual C-mount adapters and cameras sold separately
W4 64-1803	Binocular Zoom Stereo Microscope on Boom Stand Binocular viewing head, 0.8x to 5.0x zoom range, inclined at 45°, 115 mm working distance, interpupillary distance adj. 52-75 mm, glass lens shield Widefield 10x eyepieces with built-in diopter adjustment (paired), 22 mm field of view, Bonder arm focusing mount, boom stand, dust cover and manual
W4 64-1804	Trinocular Zoom Stereo Microscope on Boom Stand Trinocular viewing head, 50/50 light split, 0.8x to 5.0x zoom range, inclined at 45°, 115mm W.D., interpupillary distance adj. 52-75 mm, glass lens shield Widefield 10x eyepieces with built-in diopter adjustment (paired), 22 mm field of view, Bonder arm focusing mount, boom stand, dust cover and manual C-mount adapters and cameras sold separately
W4 64-1805	Trinocular Zoom Stereo Microscope on Ball Bearing Boom Stand Trinocular viewing head, 50/50 light split, 0.8x to 5.0x zoom range, inclined at 45°, 115 mm W.D., interpupillary distance adj. 52-75 mm, glass lens shield Widefield 10x eyepieces with built-in diopter adjustment (paired), 22 mm field of view, Bonder arm focusing mount, ball bearing boom stand, dust cover and manual C-mount adapters and cameras sold separately
W4 64-1806	Trinocular Zoom Stereo Microscope on Flex Arm Stand Trinocular viewing head, 50/50 light split, 0.8x to 5.0x zoom range, inclined at 45°, 115 mm working distance, interpupillary distance adj. 52-75 mm, glass lens shield Widefield 10x eyepieces with built-in diopter adjustment (paired), 22 mm field of view, Bonder arm focusing mount, flexible articulating arm stand with c-clamp mount Dust cover and instruction manual, C-mount adapters and cameras sold separately
W4 64-1807	Viewing Heads ESD safe Binocular viewing head, 0.8x to 5.0x zoom range, inclined at 45°, 115 mm working distance, interpupillary distance adj. 52-75 mm, glass lens shield
W4 64-1808	Viewing Heads ESD safe Trinocular viewing head, 50/50 light split, 0.8x to 5.0x zoom range, inclined at 45°, 115 mm W.D., interpupillary distance adj. 52-75 mm, glass lens shield
W4 64-1809	Camera and Video Adapters 0.5x c-mount adapter
W4 64-1810	Camera and Video Adapters 1.0x video adapter with c-mount (no lens)
W4 64-1811	Eyepieces WF10x eyepiece with built-in diopter adjustment, 22mm field of view. Eyepiece accepts a 26.5 mm reticle
W4 64-1812	Eyepieces WF15x eyepiece with built-in diopter adjustment, 16mm field of view. Eyepiece accepts a 20 mm reticle
W4 64-1813	Eyepieces WF20x eyepiece with built-in diopter adjustment and eyeguard, 12.5 mm field of view, does not accept a reticle.
W4 64-1814	Eyepieces Roll down rubber eyeguards (pair) - small
W4 64-1815	Eyepieces Roll down rubber eyeguards (pair) - large
W4 64-1816	Reticle 26.5 mm eyepiece reticle, 10 mm/100 divisions with crossline
W4 64-1817	Reticle 26.5 mm eyepiece reticle, 10 mm/100 divisions without crossline
W4 64-1818	Reticle 20 mm eyepiece reticle, 10 mm/100 divisions with crossline
W4 64-1819	Reticle 20 mm eyepiece reticle, 10 mm/100 divisions
W4 64-1820	Stage Micrometer, 1 mm/1 - division (each division 0.010 mm)
W4 64-1821	Calibration slide
W4 64-1822	0.5x Auxilliary objective, working distance 211 mm
W4 64-1823	2.0x Auxilliary objective, working distance 43.5 mm
W4 64-1824	Plain focusing stand with ø76 mm pod holder, black and white contrast plate
W4 64-1825	Variable LED incident (12v/2w) and transmitted (12v4w) focusing stand with ø76mm pod holder, stage clips, universal power supply,
W4 64-1826	Diascopic stand for embryo transfer with tiltable mirror reflector and ø76mm pod holder (fiber optic or halogen illuminator sold separately)
W4 64-1827	Pole stand with focus mount, black and white plate - no illumination
W4 64-1828	Variable Halogen incident (12v15w) and variable transmitted (12v15w) focusing stand with ø76 mm pod holder, stage clips, glass and black & white plate Stages and Stage Plate
W4 64-1829	Universal boom stand, horizontal arm with bonder port, base dimensions 10 x 10 in, 14 3/8 in vertical post, 20 3/8 in horizontal post, order with W4 64-1834 Bonder arm
W4 64-1830	Ball bearing boom stand, horizontal arm with bonder port, base dimensions 10 x 10 in, Vertical post 15.5 in, Horizontal arm 23 order with W4 64-1834 Bonder arm
W4 64-1831	Ball bearing boom stand extension post
W4 64-1832	Flexible arm stand, lockable 14.5 in vertical motion range, 3 foot scanable range, adjustable counterbalanced support use with W4 64-1833
W4 64-1833	Horizontal or vertical c-clamp mount for use with W4 64-1832
W4 64-1834	Bonder arm (E-Arm) with ø76 mm pod holder, 5/8 in mounting pin