

AN IMPRESSIVE MICROSCOPE OF MODULAR DESIGN, OUTSTANDING QUALITY, ENHANCED FEATURES AND COST EFFECTIVENESS

UNICO is proud to present the ZM180 stereo zoom microscope series. Packed with all the features you will ever need, these microscopes compete favorably feature to feature with every leading brand. These instruments of outstanding quality have been built to meet your demand for reliable performance at a competitive price. The superb quality and affordable price make the ZM180 series an ideal instrument for a variety of industrial, medical, educational or special OEM applications.

The ZM180 Features:

- Superior optical design with outstanding resolution and brilliantly sharp images
- Rugged all metal construction
- Excellent zoom range from 0.7X to 4.5X
- The parfocal zoom system keeps the image in constant focus while you zoom
- Zoom control knobs are conveniently side-mounted for smooth, comfortable operation
- Binocular or trinocular body with comfortable 45° inclination angle for fatigue-free viewing.
- The binocular or trinocular body may be rotated 360° for group sessions
- Dual diopter adjustment of ± 5 diopters enables you and your colleague to precisely set focus according to individual needs
- Interpupillary adjustment range from 55mm to 75mm
- Total magnification range extends from 2.1X to 225X
- The working distance of the zoom body is 108mm, extendible to 314mm with 0.3X auxiliary objective
- Widefield eyepieces of 10X, 15X, 20X, 25X
- Wide range of auxiliary objectives 0.3X, 0.5X, 0.75X, 1.5X and 2X
- A wide variety of stands, arms and boom stands
- Choice of different illumination systems including fiber optic illuminators
- Polarizing attachment and other accessories



VARIOUS STANDS, ARMS, ILLUMINATION SYSTEMS AND ACCESSORIES AVAILABLE TO ACCOMMODATE YOUR EXPANDED APPLICATIONS

Model ZM184HF-TC

Photomicrographic System Meets Your Documentation Needs.

ZM180 series trinocular body provides a vertical camera port for CCTV or photographic applications (requires CCTV adapter or photographic adapter). The image from the left eye path is transferred completely to the camera to provide maximum light while allowing simultaneous observation through the right eyetube. 35mm camera adapter system (D4-8010) is available. With proper T-mount, it is compatible with all camera bodies.

You can take advantage of the increasing popularity of CCTV with the ZM180 trinocular microscope. Focus-adjustable CCTV adapter (D-8020) and fixed C-mount video adapter (D-8021) are available. ▼

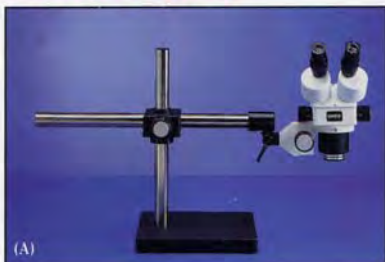
ZM184HF-TC



(A) Boom Stand with Universal Arm, Binocular Body and Eyepieces ▶

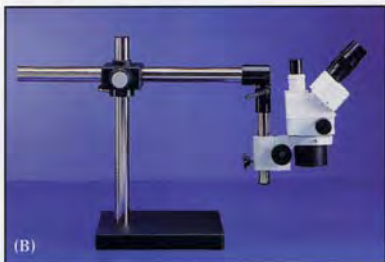
The rugged boom stand features a 15.4" chrome steel vertical post and a 21" horizontal bar. The 10.3" X 9.5" rectangle metal base assures positive stability. A locking collar prevents accidental slippage on the vertical pole.

The universal arm with the standard 5/8" diameter knuckle (D4-4101) mounts directly to the end of the horizontal bar. It has a drift free focusing range of 35mm. The knuckle enables adjustment and locks the microscope body to a precise angle for inspection of large specimens.



(B) Boom Stand with 25mm diameter post carrier, Focusing Mount, Trinocular Body and Eyepieces ▶

The focusing mount (D4-4102) is attached to the boom stand via a 25mm vertical post carrier (D4-4106). The focusing mount provides positive focusing action over a range of 55mm.



(C) Model ZM181

Exceptional long working distance!

The ZM181 features a post stand with a 7" x 9" base and 25mm diameter chrome steel pole. The working distance is up to 13" inches long. ▶



(D) Model ZM183FF

Cool Light Illumination!

The model ZM183FF is equipped with both transmitted and incident fluorescent illumination. It best suits the application requires illumination with no heat. ▶



UNICO™ ZM180 SERIES ZOOM STEREO MICROSCOPE

CATALOG NO.	ZOOM BODY	EYEPIECE	OBJECTIVE	STAND	ILLUMINATION
ZM181	Binocular 0.7X-4.5X	WF10X	1X	PE Stand	None
ZM181HF	Binocular 0.7X-4.5X	WF10X	1X	PE-HF Stand	Built-in incident halogen & transmitted fluorescent
ZM181HF-TC	Trinocular 0.7X-4.5X	WF10X	1X	PE-HF Stand	Built-in incident halogen & transmitted fluorescent
ZM181HF-TV	Trinocular 0.7X-4.5X	WF10X	1X	PE-HF Stand	Built-in incident & transmitted fluorescent
ZM182	Binocular 0.7X-4.5X	WF10X	1X	DPT Stand	None
ZM182DL	Binocular 0.7X-4.5X	WF10X	1X	DPT Stand diascopic base	6V20W halogen illuminator
ZM183FF	Binocular 0.7X-4.5X	WF10X	1X	DFF Stand	Built-in incident & transmitted fluorescent
ZM184	Binocular 0.7X-4.5X	WF10X	1X	DE Stand	None
ZM184HF	Binocular 0.7X-4.5X	WF10X	1X	DE-HF Stand	Built-in incident halogen & transmitted fluorescent

OPTICAL DATA

	Working Distance	Eyepiece WFH10X FN: 23mm		Eyepiece WF10X FN: 19mm		Eyepiece WF15X FN: 14.5 mm		Eyepiece WF20X FN: 11mm		Eyepiece WF25X FN: 9mm	
		Total Mag.	F.O.V. (mm)	Total Mag.	F.O.V. (mm)	Total Mag.	F.O.V. (mm)	Total Mag.	F.O.V. (mm)	Total Mag.	F.O.V. (mm)
Auxiliary Lens											
0.3X	314mm	2.1-13.5X	Φ110-17	2.1-13.5X	Φ95-14.8	3.2-20.3X	Φ76.2-11.9	4.2-27X	Φ55-8.5	5.3-33.8X	Φ43-6.7
0.5X	189mm	3.5-22.5X	Φ66-10.2	3.5-22.5X	Φ57-8.9	5.3-33.8X	Φ45.7-7.1	7-45X	Φ33-5.1	8.8-56.3X	Φ26-4
0.75X	122mm	5.3-33.8X	Φ44-6.8	5.3-33.8X	Φ38-5.9	7.9-50.6X	Φ30.5-4.7	10.5-67.5X	Φ22-3.4	13.1-84.4X	Φ17.2-2.7
None	108mm	7-45X	Φ33-5.1	7-45X	Φ28.6-4.4	10.5-67.5X	Φ22.9-3.6	14-90X	Φ16.4-2.6	17.5-112.5X	Φ13-2
1.5X		10.5-67.5X	Φ22-3.4	10.5-67.5X	Φ19-3	15.8-101.3X	Φ15.2-2.4	21-135X	Φ11-1.7	26.3-168.8X	Φ8.6-1.3
2X		14-90X	Φ16.4-2.6	14-90X	Φ14.3-2.2	21-135X	Φ11.4-1.8	28-180X	Φ8.2-1.3	35-225X	Φ6.5-1

CATALOG NUMBERS FOR ZM180 SERIES

ZM180 ZOOM BODIES

D4-3001	Binocular Zoom Body 0.7X-4.5X
D4-3002	Trinocular Zoom Body 0.7X-4.5X

ZM180 EYEPIECES AND AUXILIARY LENS

D4-1001	Widefield Eyepiece 10X FN: 19mm
D4-1002	Widefield Eyepiece 15X FN: 14.5mm
D4-1003	Widefield Eyepiece 20X FN: 11mm
D4-1004	Widefield Eyepiece 25X FN: 9mm
D4-1005	Extra Widefield Eyepiece 10X FN: 23mm
D4-2001	Auxiliary Lens 2X
D4-2002	Auxiliary Lens 1.5X
D4-2003	Auxiliary Lens 0.75X
D4-2004	Auxiliary Lens 0.5X
D4-2005	Auxiliary Lens 0.3X

ZM180 STANDS, ARMS AND BASES

D4-4001	PE Stand, pole type with extension pillar
D4-4001HF	PE-HF Stand, incident halogen (6V20W) and transmitted fluorescent illumination (5W)
D4-4002	DPT Stand, with incident illuminator port
D4-4003FF	DFF Stand, incident and transmitted fluorescent illumination (5W)
D4-4004	DE Stand, two-step extendible arm
D4-4004HF	Same as D4-4004 but with incident halogen (6V20W) and transmitted fluorescent illumination (5W)
D4-4006	Boom stand with universal arm (P/N D4-4101, included)
D4-4007	Boom stand with 25mm post carrier (P/N D4-4106, included) and focusing mount (P/N D4-4102, included)
D4-4101	Universal arm (Bonder Arm) with 5/8 inch knuckle pin
D4-4102	Focusing mount with 25mm diameter through hole
D4-4103	Probe arm
D4-4104	Boom stand with 5/8 inch knuckle hole
D4-4105	Boom stand with 25mm post carrier (P/N D4-4106, included)
D4-4106	25mm post carrier
D4-4201	Diascopic base (only use with DPT stand P/N D4-4002)

OTHER COMPONENTS AND ACCESSORIES

D4-7001	Illuminator, 6V20W halogen, light intensity adjustable
D4-7002	Fiber optics dual-chrome gooseneck
D4-7003	Fiber optics ring light
D4-7004	Fiber optics light source 115V 100W
D4-8010	35mm camera adapter and photo eyepiece system
D4-8020	Video adapter with external C thread, adjustable
D4-8021	Fixed video C-mount adapter O.D. 23.2mm
D4-8901	Objective protection ring with glass
D4-8902	Reticule for 10X eyepiece (P/N D4-1001)
D4-8903	Reticule for WFH10X eyepiece (P/N D4-1005)

Warranty: Five Year Limited Warranty on mechanical and optical parts and one year on electrical parts against manufacturing defects.

Design and specifications are subject to change without notice or any obligation.

Authorized distributor:

United Products and Instruments, Inc.

