

Precision Stereo ZOOM Microscope – PZMIV

- Modular, two parallel beam design
- Planachromatic objectives, no optical distortion
- High-contrast imaging, ideal for Observing transparent, low-contrast objects
- Large zoom ratio: 8:1
- Large zoom range: 0.62x to 5.0x
- Long working distance
- Step and continuous zoom
- 5-year warranty

The fourth generation of WPI's precision stereo zoom microscopes uses modular, two parallel beam path design and high quality optical system. The advanced optical design with planachromatic objectives provides sharp and distortion-free contrast image throughout the entire zoom range and comes with an impressive 5-year warranty.

The PZMIV is available in a binocular or trinocular version. In addition, an extensive list of optional accessories is available that makes the PZMIV suitable for integrated optical and biological research.

The microscope comes with a track stand, standard 10x eyepieces (wide-field, distortionfree and high eye point), 1x planachromatic distortion-free objective. See the Table on next page for all optical options.



All PZMIV and PZMTIV microscopes come with 10x eyepieces, built-in 1x auxiliary lens, and light ring adapter.

Shown: PZMTIV with COLCAM and 0.5X c-mount adapter (camera and c-mount not included)



502160

Lighted Fan Base

PZMIV	Precision Stereo Zoom Binocular Microscope (Model IV), on Track Stand
PZMIV-BS	PZMIV Microscope on Boom Stand
PZMIV-AAC	Microscope on Articulated Arm with Table Clamp or Wall Mount
PZMTIV	Precision Stereo Zoom Trinocular Microscope (Model IV), on Track Stand
PZMTIV-BS	PZMTIV Microscope on Boom Stand
PZMTIV-BCS	PZMTIV Microscope on Boom Clamp Stand
PZMTIV-AAC	PZMTIV Microscope on Articulated Arm with Table Clamp or Wall Mount
PZMTIV-CCTV	PZMTIV Microscope Video System, including PZMTIV, COLCAM Color Video Camera, 0.5x CCD Camera Coupler, Novaflex Optical Illuminator, Bifurcated Optical Fiber Light Guide, and 13" Color TV Monitor (NTSC format)



PZMIV & PZMTIV Eyepieces and Objectives

Objective	10x Eyepiece		16x Eyepiece		20x Eyepiece		25x Eyepiece		Working Distance
	Mag	Field (mm) (Video Field)	Mag	Field (mm) (Video Field)	Mag	Field (mm) (Video Field)	Mag	Field (mm) (Video Field)	
0.32x	1.9x - 16x	106 -13.1 (49.8 - 6.1)	3.2x 25.6x	70.6 - 8.8 (49.8 - 6.1)	3.9x - 32x	55.4 - 6.9 (49.8 - 6.1)	5x - 40x	45.4 - 5.6 (49.8 - 6.1)	296 mm
0.5x	3.1x - 25x	67.7 - 8.4 (31.8 - 3.95)	5x - 40x	45.2 - 5.6 (31.8 - 3.95)	6.2x - 50x	35.5 - 4.4 (31.8 - 3.95)	7.8x - 62.8x	20 - 3.6 (31.8 - 3.95)	187 mm
0.63x	3.9x - 31.5x	53.8 - 6.7 (25.3 - 3.15)	6.2x - 50.4x	35.8 - 4.4 (25.3 - 3.15)	7.8x -63x	28.2 - 3.5 (25.3 - 3.15)	9.8x - 78.8x	23 -2.9 (25.3 - 3.15)	149 mm
1.0x (inc)	6.2x - 50x	33.9 - 4.2 (15.9 - 1.97)	9.9x - 90x	22.6 - 2.8 (15.9 - 1.97)	12.4x - 100x	17.7 - 2.2 (15.9 - 1.97)	15.5x - 125x	14.5 - 1.8 (15.9 - 1.97)	80 mm

The Video Field is based on a 1/2-inch CCD (8 mm diagonal) and a 0.5x camera adapter.

OPTIONAL ACCESSORIES

502000	PZMIV Binocular Body With 10X Eyepieces, 1X Objective, Eye guards
502001	PZMTIV Trinocular Body With 10X Eyepieces, 1X Objective, Eye guards
502004	Boom Stand W/O Focus Mount (requires 502009 Focus Mount for PZMIV)
502005	Ball Bearing Boom Stand W/O Focus Mount (requires 502009 Focus Mount for PZMIV)
502006	Boom Clamp Stand (requires 502009 Focus Mount for PZMIV)
502007	Articulated Arm and Table Clamp w/o Focus Mount (requires 502009 Focus Mount for PZMIV)
502009	Universal Focus Mount for 76 mm PZMIV (Required for BS, AAC, BBS, and BCS) (5/8" pin)
502160	Lighted Fan Base, Fluorescent base, Tungsten Halogen beam
502010	10X Wide Field Eyepiece for PZMIV (pair)
502011	16X Wide Field Eyepiece for PZMIV (pair)
502012	20X Wide Field Eyepiece for PZMIV (pair)
502013	25X Wide Field Eyepiece for PZMIV (pair)
502015	Ring Light Adapter for PZMIV (For R-8-8-WPI01 Ring Light Guide)
502016	0.32x, Planachromatic Objective (Distortion-free) (296 mm WD)
502017	0.50x, Planachromatic Objective (Distortion-free) (187 mm WD)
502018	0.63x, Planachromatic Objective (Distortion-free) (149 mm WD)
502019	1.0x, Planachromatic Objective (Distortion-free) (80mm WD)
500261	0.3x CCD Camera Coupler, C-Mount (Use with Pixera Professional)
500262	0.5x CCD Camera Coupler, C-Mount (Use with COLCAM)
500263	0.75x CCD Camera Coupler, C-Mount
500028	1.0x CCD Camera Coupler, C-Mount (Use with Digital Camera Adapter Kit 501384)
501384	Digital Camera Adapter Kit (see page 222 for details)
500828	Stage Micrometer, 1 mm/200 div (recommended for calibrated photography)
502163	Wall Mount Plate for Articulated Arm System
NOVA	NOVAFLEX Fiber Optic Illuminator
500186	Bifurcated Light Guide with Lenses
R-8-8-WPI01	Ring Light Guide
NOVA-186	NOVAFLEX Fiber Optic Illuminator with Bifurcated Light Guide and Lenses
EJA	Replacement Lamp for NOVAFLEX
502167	Replacement Fluorescent lamp for Lighted Fan Base (502160)
502168	Replacement Tungsten Halogen lamp for Lighted Fan Base (502160)



CCD Camera Couplers
C-Mount, available as 0.3x,
0.5x and 0.75x.

PZMIV SPECIFICATIONS

EYEPIECES WFH	10x
AUXILIARY LENSES	1x
ZOOM RANGE	0.62x - 5x
TOTAL MAGNIFICATION	6.2x - 50x
ZOOM RATIO	8 : 1
FIELD OF VIEW	Ø33.9- Ø4.2 mm
WORKING DISTANCE	80 mm
BINOCULAR TUBE	Inclined 45°
INTERPUPILARY DISTANCE	50 - 75 mm
DIOPTER ADJUSTMENT	± 5 Diopter
MICROSCOPE BODY	Rotatable 360°
OPTIONAL ACCESSORIES	
Eyepieces	16x, 20x, 25x
Auxiliary lenses	0.32x, 0.5x, 0.63x
Total Magnification	1.9x - 125x
Field of view	Ø106 - Ø1.8 mm
Working Distance	80 - 296 mm