

Meiji's EMZ series stereo microscopes are top of the line, Made in Japan microscopes and are the final name when it comes to superb optics, rugged dependability. Multi-coated optical components provide crystal clear, high resolution images. The Greenough optical design provides superior erect, unreversed, stereoscopic images, rich in contrast, brightness and correct in their original color.

Features:

- Trinocular zoom body for use in photographic and video applications. When the beamsplitter is engaged 100% of the light from the left optical path is directed to the phototube. The image can still be viewed through the right eyetube.
- Crisp, high resolution, precision optics provide an excellent, erect, unreversed stereoscopic image.
- Extended Magnification Range, 2.1X - 270X and extended working distances of 34mm - 251mm (With supplemental objectives and eyepieces).
- Dual dioptic adjustment (± 5 diopters) allows the specimen to remain in focus throughout the entire zoom magnification range.
- Rugged all metal body designed to last a lifetime.
- Economically positioned bilateral zoom controls
- Binocular eyetubes inclined at 45° for fatigue free viewing.
- Rotatable 360° with Zoom Control



EMZ-5 Series Specifications

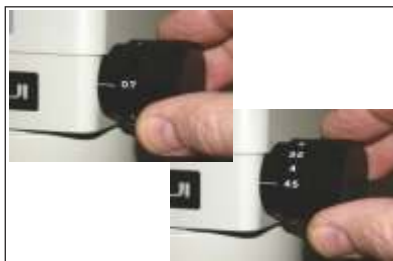
Model	EMZ-5-PK	EMZ-5TR-PKL2	EMZ-5TR-PKL2-INP	EMZ-5TR-PKL2-INP-3MP
Body	Binocular	Trinocular	Trinocular	Trinocular
Zoom Ratio	6.5:1	6.5:1	6.5:1	6.5:1
Zoom Range	0.7x - 4.5x	0.7x - 4.5x	0.7x - 4.5x	0.7x - 4.5x
Zoom Control	Dual, graduated, bilateral mount	Dual, graduated, bilateral mount	Dual, graduated, bilateral mount	Dual, graduated, bilateral mount
Magnification	7x - 45x	7x - 45x	3.5x - 180x	3.5x - 180x
Field of View	32mm - 5.1mm	32mm - 5.1mm	65.7mm - 1.2mm	65.7mm - 1.2mm
Eyeteube Inclination	45°	45°	45°	45°
Interpupillary Distance	54mm - 75mm	54mm - 75mm	54mm - 75mm	54mm - 75mm
Dioptic Adjustment	Dual (+/- 5 diopters)	Dual (+/- 5 diopters)	Dual (+/- 5 diopters)	Dual (+/- 5 diopters)
Eyepieces	10X	10X	10X and 20X	10X and 20X
Auxiliary Lenses	1X	1X	0.5X, 1X & 2X	0.5X, 1X & 2X
Working distance	93mm	93mm	148mm (with 0.5X auxiliary)	148mm (with 0.5X auxiliary)
Stand	Pole type without illumination	Pole type with transmitted illumination	Pole type with transmitted illumination	Pole type with transmitted illumination
Incident Illumination	-	LED type	LED type	LED type
Transmitted Illumination	-	LED type	LED type	LED type
Digital Camera	-	-	-	CMOS, 3 MP
Stand Dimensions	265(L)x330(W)x280(H)	300(L)x320(W)x255(H)	300(L)x320(W)x255(H)	300(L)x320(W)x255(H)

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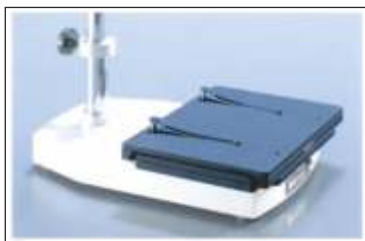
Scope of Supply

Description	EMZ-5-PK	EMZ-5TR-PKL2	EMZ-5TR-PKL2-INP	EMZ-5TR-PKL2-INP-3MP
Binocular Zoom Body	●			
Trinocular Zoom Body		●	●	●
Head holder/focusing drive with incident light LED		●	●	●
Head holder/focusing drive without incident light	●			
Plain Stand (without transmitted light)	●			
Stand with transmitted light LED		●	●	●
Extra Auxiliary Lenses(0.5X &2X) and 1 (20x) eyepiece			●	●
Manual X-Y Stage				●
3 MP Digital Camera Kit				●



Zoom Range

Continuous zoom allows changing from a macro sample overview down to viewing micro details easily. The standard configuration of a 6.5:1 zoom ratio enables a total magnification of 7X-45X. Dual dioptic adjustment (± 5 diopters) allows the specimen to remain in focus throughout the entire zoom magnification range. No need for re-adjusting the focus - system is parfocal throughout the zoom range.



X-Y Stage with Rotatable Insert

An attachable x/y-stage with 100x100mm travel range enables a precise bidirectional movement.

- Base stand mountable
- Max X Distance: 100mm
- Max Y distance: 100mm
- Dimension: 125 x 170mm



Auxiliary Objectives

The standard configuration has a working distance of 93mm, offering sufficient space for sample manipulation under the microscope. The maximum field diameter (with lowest zoom position and 10X eyepieces) will be 32.8mm.

To get a larger overview the customer may choose the following option

Auxiliary Eyepiece	Magnification	W. D. (mm)	Max. Field diameter (with 10X eyepiece)
0.5X	3.5X	148	65.7mm

Higher magnifications can be achieved by using the following auxiliary objectives:

Auxiliary Eyepiece	Magnification	W. D. (mm)	Max. Field diameter (with 10X eyepiece)
2X	90X	33	2.5mm

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EMZ-5 Optical Data

Auxiliary Objectives	Zoom Range	Working Distance (mm)	Eyepieces			
			SWF10X		SWF20X	
			Total Mag.	Field (mm)	Total Mag.	Field (mm)
None	0.7~4.5	93	7X ~ 45X	32.8 ~ 5.1	14X ~ 90X	16.4 ~ 2.5
0.5X		148	3.5X ~ 22.5X	65.7 ~ 10.2	7X ~ 45X	32.8 ~ 5.1
2.0X		33	14 ~ 90X	16.4 ~ 2.5	28X ~ 180X	8.2 ~ 1.2

Image Capturing & Digital Documentation - CMOS Digital Camera & Infinity Software

The EMZ-5TR-PKL2-INP-3MP Model includes a 3 Mega Pixel Digital Camera and Infinity Software for image capturing, analysis purposes. The combination of EMZ-5TR and CMOS digital camera delivers excellent live images.



Specifications of CMOS Camera:

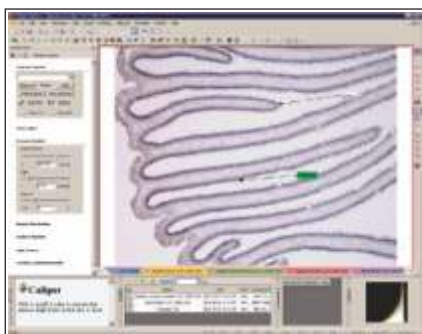
- Live Resolution: 3.0 Mega Pixel
- Image Sensor: 1/2" format, color, 6.5mm x 4.9mm array
- Effective Pixels: 2048 X 1536, 3.2 um square pixels
- Digital output: 8 and 10 bit uncompressed
- Frame Rate: 6 fps at 2048 x 1536, 60fps at 640 x 480
- Auto Exposure: Automatic / Manual
- White Balance: Automatic / Manual
- Gain: Programable / 0 to 10X optimizable
- Optical mount: C-mount lens adapter
- Interface: USB 2.0 high speed interface
- Dimensions: 3.85" (L) x 2.00" (W) x 2.75" (H)

Features of CMOS Camera:

- High Speed USB2.0 interface - eliminates having to install cards or other hardware.
- Low noise image sensor delivers crisp color quality for the most demanding brightfield and darkfield applications.
- Industry standard TWAIN interface results in rapid image capture for archiving and documentation.
- Compact design features standard "C"-mount facilitating installation on all microscope configurations including trinocular, inverted front camera port and stereo microscopes.
- Supports Windows 98/SE, 2000, ME and XP operating systems.
- Camera can take its power from the USB bus. This means with a laptop, images can be generated in the field.
- Comes with INFINITY CAPTURE and INFINITY ANALYZE software for Windows

Measurement

Caliper, polyline, circle from 3 points, area, perimeter, polygon, counting, light density, micrometer, grid/circle overlay, manual calibration drag and drop data to excel



Main Menu of software screen

Annotation

- Line
- Rectangle
- Round rectangle
- Ellipse
- Polygon
- Arrow
- Text

Some of the Basic Controls

Real time preview, Manual/auto exposure, White balance, Gain, Brightness, Gamma, Saturation, Intensity, Hue, Image orientation, Averaging, Subsampling, Light source selection, Clockwise/counter clockwise, Rotate 90 deg & 180 deg, Flip vertical, horizontal, diagonal, Mirror, Zoom preview, Cascade, Tile horizontal & Vertical

Capture Options

- Single capture
- Time lapse
- Auto increment filename
- Single key capture



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