



Metallurgical Microscopes



M40 / M40RT Metallurgical Microscope Features



LWD Plan Achromat MET Infinity Corrected Objectives

Part #	Objective	N.A.	W.D. (mm)
FMPLN5	5x	0.15	10.8
FMPLN10	10x	0.30	12.2
FMPLN20	20x	0.45	4
FMPLN50	50x	0.55	7.9

Semi APO BF MET Infinity Corrected Objectives

Part #	Objective	N.A.	W.D. (mm)
BF-SAPO-M5	5x	0.15	19.5
BF-SAPO-M10	10x	0.30	10.9
BF-SAPO-M20	20x	0.50	3.2
BF-SAPO-M50	50x	0.80	1.2
BF-SAPO-M100	100x	0.90	1.0



- Ergonomically inclined head with eyetubes at 30° places user in the best working position, creating less tension and fatigue. Interpupillary distance is adjustable from 54-75mm.
- 2 Koehler reflected illumination system with oblique light option.
- 5W LED with warm white light (3000-3300K) reduces eye fatigue. Long lasting LED bulb life.
- Pull levers for adjusting field diaphragm and aperture diaphragm. Stray light can be eliminated, resulting in a higher clarity image.
- 5 Simple polarization includes polarizer and 360° rotatable analyzer.
- M40RT reflected and transmitted light microscope can accommodate a 28mm sample height.

M40 reflected light microscope can accommodate a 78mm high sample when dropping the stage 50mm by repositioning the screw in the stage holder.

- M4 allen wrench for all microscope set screws stored in microscope frame making it always available when needed.
- Upper limit device helps avoid damage caused by impact between sample and objective lens.
- M40RT reflected and transmitted light microscope includes condenser with swing-out lens for maximized focused light and the ability to adjust numerical aperture to match objectives, resulting in higher image clarity and resolution.





M40 Series Metallurgical Microscope Models

M40 Reflected Light Metallurgical Microscope





Both models available in binocular and trinocular.

M40RT Reflected & Transmitted Light Metallurgical Microscope







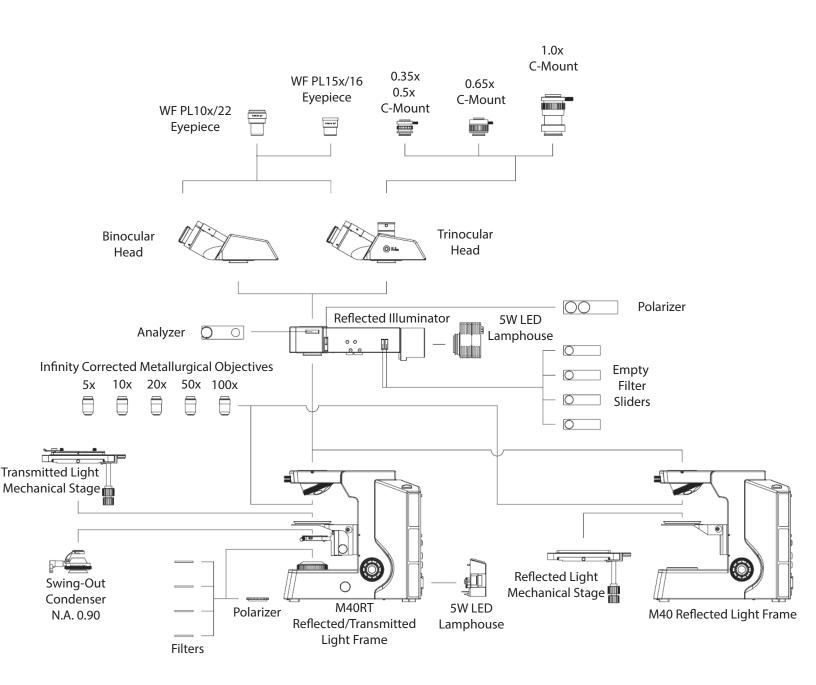


M40 / M40RT Metallurgical Microscope Specifications

Optical System	Infinity color corrected optical system.		
Viewing Head	30° inclined gemel binocular head, interpupillary distance adjustable $54\sim75$ mm, left diopter adjustable ±5 .		
	30° inclined gemel trinocular head, interpupillary distance adjustable $54\sim75$ mm, left diopter adjustable ±5 , beam splitter ratio = $100:0$, $50:50$.		
Eyepieces	High eyepoint WF PL10x / 22mm, with reticle retaining ring for 26mm diameter reticle.		
	High eyepoint WF PL15x / 16mm, with reticle retaining ring for 24mm diameter reticle.		
Objective	LWD Plan Achromat Metallurgical Infinity Corrected 5x, 10x, 20x, 50x.		
Lenses	Semi APO Brightfield Metallurgical Infinity Corrected 5x, 10x, 20x, 50x, 100x.		
Nosepiece	Reversed quintuple nosepiece.		
Focus Adjustment	M40RT (reflected & transmitted frame): coaxial focus system with tension adjustment and upper-limit device, coarse range: 28mm, fine precision: 0.002mm. Stage can be adjusted up and down. Maximum sample height = 28mm.		
	M40 (reflected frame): coaxial focus system with tension adjustment and upper-limit device, coarse range: 28mm, fine precision: 0.002mm. Stage can be adjusted up and down. Maximum sample height = 78mm.		
Stage	M40RT (reflected & transmitted frame): double layer mechanical stage with X/Y coaxial adjustment. Stage size = 175 mm x 145 mm. Moving range = 76 mm x 42 mm. Includes glass plate for transmitted light.		
	M40 (reflected frame): double layer mechanical stage with X/Y coaxial adjustment. Stage size = 175mm x 145mm. Moving range = 76mm x 42mm. Includes metal plate.		
Reflected Illumination	Wide range voltage 100V~240V. AC50/60Hz, reflected lamp house with single 5W LED, warm color. Koehler illuminator with oblique light device, center adjustable field and aperture diaphragm.		
Transmitted Illumination	Wide range voltage 100V~240V. AC50/60Hz, tranasmitted lamp house with single 5W LED, warm color.		
Polarization	Rotatable 360° analyzer and polarizer sliders fit in slots on reflected illuminator arm.		
Condenser	M40RT (reflected and transmitted frame): N.A. 0.90 swing-out achromatic condenser with center adjustable aperture iris diaphragm.		
C-Mount Adapters	C- Mount camera adapters focusing 0.35x, focusing 0.5x, focusing 0.65x, 1.0x.		
Filters	Reflected light empty filter sliders available.		
	Transmitted light 44mm filters available: yellow, green, blue, green interference, neutral density ND2, didymium		
Reticles	Variety of reticles available including: grid, ruler, cross-line, etc. Metric or inches.		

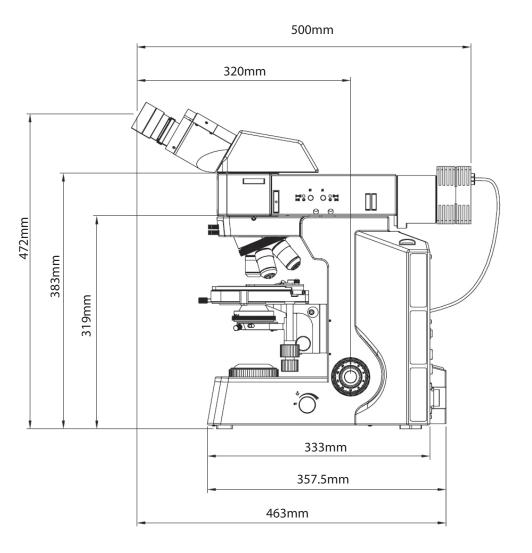


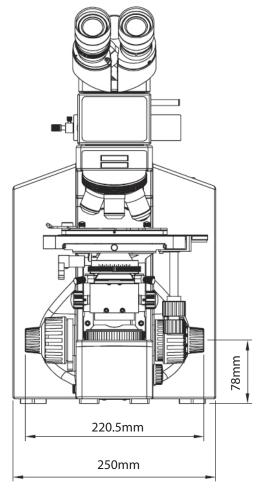
M40 / M40RT Metallurgical Microscope Diagram





M40 / M40RT Metallurgical Microscope Dimensions







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