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M Series Standard Microscope Objective Lenses

Our M Series objective lenses are broadband AR coated and designed for diffraction limited performance across the entire visible spectrum. This allows collimated beams from lasers such as HeNe, Argon, or frequency double Nd:YAG to be focused to a small spot for spatial filtering.



- Visible 400-700 nm antireflection coated
- Rear conjugate corrected objectives
- Ideal for use in spatial filtering
- Cleanly collimate and focus beams

See All Features

Compare	Model	Availability	Price
	**M-5X** Microscope Objective Lens, 5x, 0.10 NA, 25.4 mm Focal Length	In Stock	$131
	**M-10X** Microscope Objective Lens, 10x, 0.25 NA, 16.5 mm Focal Length	In Stock	$159
	**M-20X** Microscope Objective Lens, 20x, 0.40 NA, 9.0 mm Focal Length	In Stock	$213

Specifications







Models	M-5X	M-10X	M-20X
Magnification	5x	10x	20x
Numerical Aperture	0.1	0.25	0.4
Wavelength Range	400-700 nm	400-700 nm	400-700 nm
Effective Focal Length (EFL)	25.4 mm	16.5 mm	9.0 mm
Working Distance	13.0 mm	5.5 mm	1.7 mm
Clear Aperture	6.0 mm	7.5 mm	6.0 mm
Thread Type	0.800-36 RMS	0.800-36 RMS	0.800-36 RMS
Tube Length	160 mm	160 mm	160 mm

Features

Finite Conjugate Objective Selection

Our M- microscope objectives are corrected for a rear conjugate at 160 mm, and this family is the most popular family in the microscope objective offering. The M- series is currently available in a range of powers from 5x to 20x. If cost is an issue, the MV- series is the economical choice for standard laboratory applications. Please see Economy Microscope Objective Lenses.

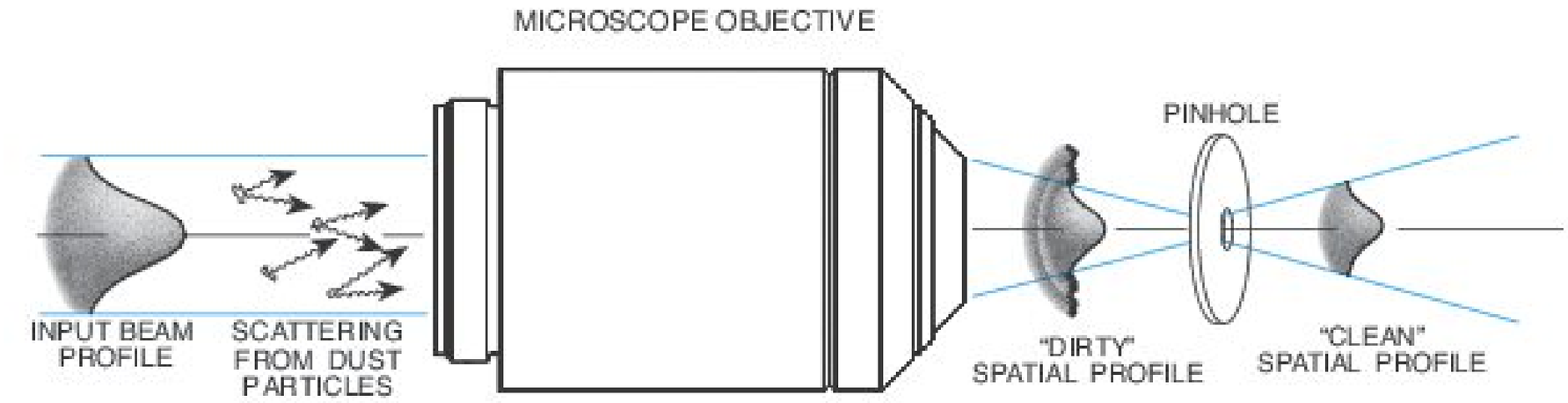


Ideal for Spatial Filtering



Our microscope objectives are broadband AR coated and designed for diffraction limited performance across the entire visible spectrum. This allows collimated beams from lasers such as HeNe, Argon, or frequency double Nd:YAG to be focused to a small spot for spatial filtering. In spatial filtering, a laser source is focused to a diffraction limited airy disk spot pattern. A pinhole is placed at the focal plane sized such that only the central lobe of the airy disk may pass through. This removes undesired higher spatial frequencies to produce a clean uniform output beam. Please see our Three-Axis Spatial Filters and our space-saving Compact Five-Axis Spatial Filters.

Spatial Filter Lens & Pinhole Selection*



Objective Lens	Recommended Max Input Beam Diameter	Calculated Pinhole Diameter*	Recommended Pinhole Diameter	Recommended Pinhole
M-5X	5.0 mm	32.2 µm	50 µm	900PH-50
M-10X	5.5 mm	20.9 µm	25 µm	900PH-25
M-20X	5.0 mm	11.4 µm	15 µm	900PH-15

* For 1 mm diameter beam at 632.8 mm. For a tutorial, check out Fundamentals of Spatial Filtering.

High Power Laser Application Example

The M-20X is highlighted here in a laser engraving example. This example highlights the fact that these objectives can be used without issue. Unfortunately there is no specific data for actual laser damage. For any high power application, due to the sensitive nature of the environment, the level of cleanliness, and laser power homogeneity, the objectives cannot be guaranteed to perform without damage.

Accessories

RMS Threaded Adapters and Mounts

Compare	Description	Drawings, CAD & Specs	Avail.	Price
	**LT10-RMS-N** Thread Adaptor, 1.0 in. Lens Tubes, 1.035-40 to 0.800-36 RMS Thread		In Stock	$24
	**UPA-OM** Objective Lens Adapter, RMS Thread, 1 inch Mount		In Stock	$49
	**LPMH-05** Objective Lens Holder, RMS, 0.875-20 Thread, For LP-05A Series		In Stock	$37
	**LPMH-1** Objective Lens Holder, RMS, 1.438-20 Thread, For LP-1A Series		In Stock	$36
	**561-OBJ** Objective Lens Mount, 561 Series		In Stock	$171
	**LH-RMS** Microscope Objective Mount, Fixed, A-LINE, 0.800-36 Thread, 8-32		In Stock	$30
	**OC1-RMS** Objective Lens Mount, Insertable, RMS Thread, Optics Cage Plus		In Stock	$28

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