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Microscope Objective Lens, 10x, 0.25 NA, 16.5 mm Focal Length



The M-10X microscope objective has a 10x magnification, 0.25 numerical aperture, 16.5 mm focal length, and 7.5 mm clear aperture. It uses a standard RMS thread, 0.800-36. The objective is corrected for a rear conjugate at 160 mm. The lenses are antireflection coated with MgF2 for the visible spectrum. This M-10x objective is suitable for use with either the Model 900 or 910A spatial filters. M- series microscope objective power is based on a 160 mm tube length. MP = 160 mm/f

Ideal for Spatial Filtering

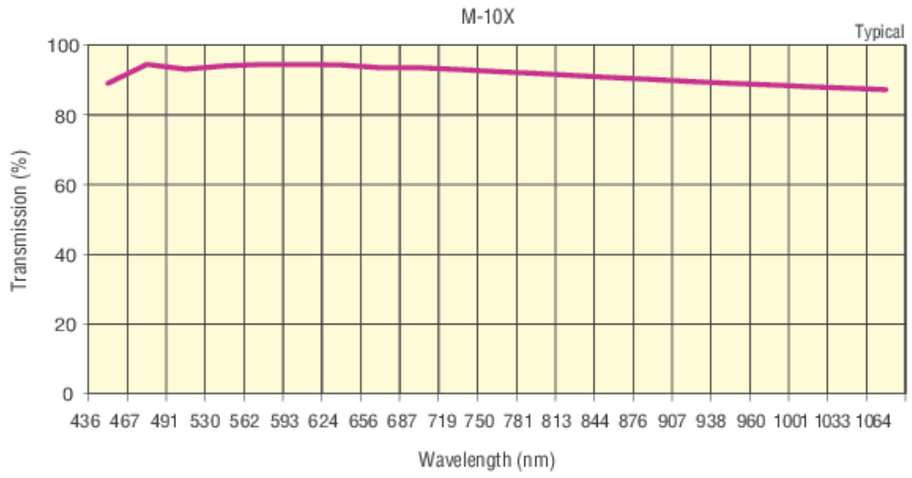


Our microscope objectives are broadband AR coated and designed for diffraction limited performance across the entire visible spectrum. This allows collimated beams from lasers such as HeNe, Argon, or frequency double Nd:YAG to be focused to a small spot for spatial filtering. In spatial filtering, a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

SHOW LESS

Specifications

Objective Type	Microscope	**Working Distance**	5.5 mm
Magnification	10x	**Thread Type**	0.800-36 RMS
Numerical Aperture	0.25	**Tube Length**	160 mm
Wavelength Range	400-700 nm	**Clear Aperture**	7.5 mm
Effective Focal Length (EFL)	16.5 mm		



— Resources & Downloads

— Related Products

Frequently Purchased Together

Compare	Description	Drawings, CAD & Specs	Avail.	Price
	**M-20X** Microscope Objective Lens, 20x, 0.40 NA, 9.0 mm Focal Length		In Stock	$213
	**M-5X** Microscope Objective Lens, 5x, 0.10 NA, 25.4 mm Focal Length		In Stock	$131
	**910A** Spatial Filter, Compact, Five-Axis, XY θxθy 100TPI, Z 80TPI		In Stock	$1,055
	**910PH-25** High-Energy Pinhole, Molybdenum, 25 µm, 0.875-20 Thread		In Stock	$136
	**F-91-C1** Fiber Coupler, Six-Axis, Connectorized Singlemode Fibers		In Stock	$1,373
	**900PH-10** High-Energy Pinhole, Molybdenum, 10 µm, 900 Series		In Stock	$186
	**910PH-15** High-Energy Pinhole, Molybdenum, 15 µm, 0.875-20 Thread		In Stock	$136
	**900PH-15** High-Energy Pinhole, Molybdenum, 15 µm, 900 Series		In Stock	$161
	**FPH-CA4** Fiber Chuck, FC Connectorized Fiber		In Stock	$289

Similar

Compare	Description	Drawings, CAD & Specs	Avail.	Price
	**M-20X** Microscope Objective Lens, 20x, 0.40 NA, 9.0 mm Focal Length		In Stock	$213

Compatible

Compare	Description	Drawings, CAD & Specs	Avail.	Price
	**SB18YZBM** XY Optic Positioner, Precision, BM Micrometers		In Stock	$1,088
	**LH-OBJ** Microscope Objective Holder, RMS-Threaded, 1.0 in. Axis Height		In Stock	$30
	**U100-A** Mirror Mount, ULTIMA®, Clear Edge, 1.0 in., No Actuators		In Stock	$123
	**LT10-RMS-N** Thread Adaptor, 1.0 in. Lens Tubes, 1.035-40 to 0.800-36 RMS Thread		In Stock	$24

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