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Mitutoyo Infinity-Corrected Long Working Distance Objectives



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- Long Working Distance, 6mm for 100X
- Bright Field Inspection
- High Quality Plan Apochromat Design
- Good Color Reproducibility
- Flat Image Surface over Entire Field of View

Mitutoyo's objectives are world-renowned for setting the standard of excellence for long working distance microscope optics. They have achieved the best combination of working distance and optical performance by using a new approach—avoiding outdated conventions used by competitors. Making the objectives larger and longer has made the designs easier (95mm parfocalization length). In order to maintain as high an N.A. and contrast as possible, the lenses are all Plano Apochromats. An apochromatic objective lens is chromatic aberration corrected for red, blue, and yellow while a standard achromatic objective lens is only corrected for red and blue. Plano Apochromats are typically very expensive, but high volume production has made it possible to keep the cost down to that of standard Achromat long working distance objectives. In addition, all these objectives are strain-free. Optimized for bright field illumination (incident illumination parallel to optical axis), these lenses are ideal for in-line illumination applications. For an infinity correction system, a secondary (or tube) lens is required. All stated magnifications are based on a tube lens focal length of 200mm. Seven series of objectives are available: [M Plan Apo](#), [M Plan Apo HR](#), [M Plan Apo SL](#), [M Plan NIR](#), [M Plan NIR HR](#), [M Plan NUV](#), and [M Plan UV](#). Mounting thread: 26mm x 0.706mm pitch (36 TPI).

Accessory Tube Lenses

[Accessory Tube Lenses](#) and [C-Mount Thread Adapters](#) can be used to adapt the Mitutoyo objectives to additional configurations.

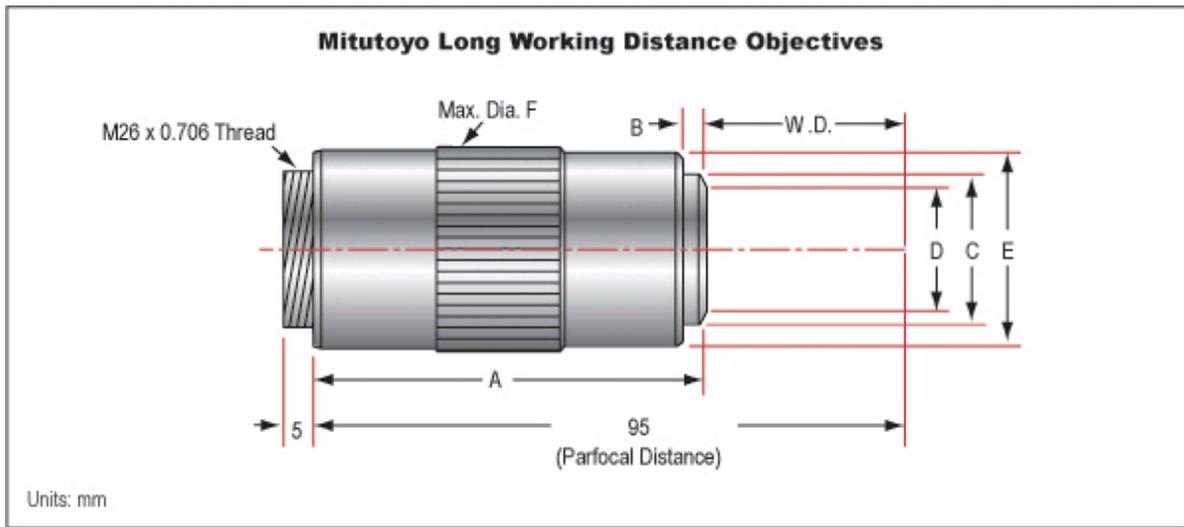
Edmund Optics is the main source for Mitutoyo Objectives. Place your orders now for these in demand quality products.

Description	Stock No.	Price	In Stock	
2X Mitutoyo Plan Apo Infinity-Corrected Long WD Objective	NT46-142	\$829.00		BUY
5X Mitutoyo Plan Apo Infinity-Corrected Long WD Objective	NT46-143	\$620.00		BUY
7.5X Mitutoyo Plan Apo Infinity-Corrected Long WD Objective	NT66-383	\$1,120.00		BUY
10X Mitutoyo Plan Apo Infinity-Corrected Long WD Objective	NT46-144	\$778.00		BUY
10X Plan Apo Infinity-Corrected Long WD (Recertified 4-P)	NT46-144-RCD	\$648.50	EMAIL	BUY
20X Mitutoyo Plan Apo Infinity-Corrected Long WD Objective	NT46-145	\$1,830.00		BUY
50X Mitutoyo Plan Apo Infinity-Corrected Long WD Objective	NT46-146	\$2,390.00		BUY
100X Mitutoyo Plan Apo Infinity-Corrected Long WD Objective	NT46-147	\$3,090.00		BUY

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Objective Dimensions

M Plan Apo	A	B	C	D	E	F	Stock No.
2X	61.0mm	1.6mm	27.5mm	24.5mm	32.2mm	34.0mm	#46-142
5X	61.0mm	1.6mm	25.0mm	22.0mm	32.2mm	34.0mm	#46-143
7.5X	60mm	0.6mm	25.0mm	24mm	32.2mm	34.0mm	#66-383
10X	61.5mm	2.2mm	25.0mm	24.0mm	32.2mm	34.0mm	#46-144
20X	75.0mm	4.4mm	25.2mm	23.8mm	32.2mm	34.0mm	#46-145
50X	82.0mm	4.6mm	25.2mm	21.5mm	32.2mm	34.0mm	#46-146
100X	89.0mm	4.5mm	25.2mm	17.5mm	32.2mm	34.0mm	#46-147



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