

50X T0.7 Mitutoyo LCD Plan Apo NIR HR Infinity Corrected Objective

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SPECIFICATIONS

General

378-869-5 **Model Number:**

Compatible Tube Lens Focal Length (mm):

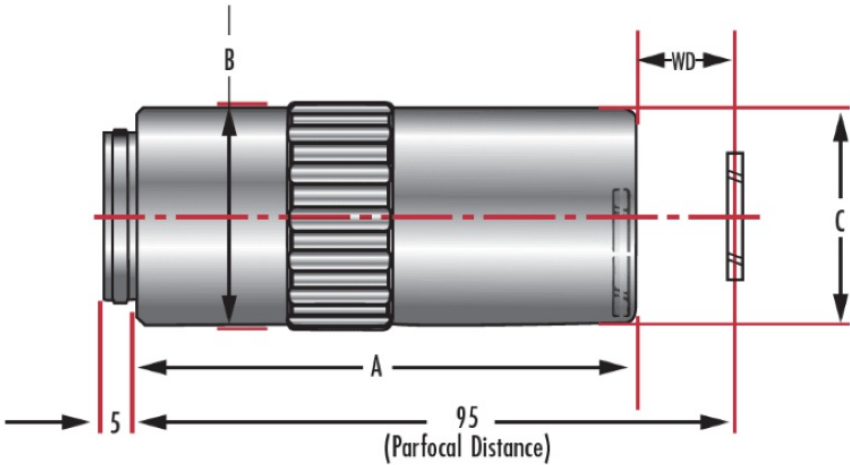
Focal Length: 200mm	
Microscope Objective	Type:
Infinity Corrected	Style:
Mtutoyo	
0.7mm thick LCD cover-glass Example Application: High magnification inspection through liquid crystal glass (LCD) or cutting and trimming of semiconductor wafer and circuits	Manufacturer:
	Note:
Physical & Mechanical Properties	
85.40	Length excluding Threads (mm):
39	Maximum Diameter (mm):
450.00	
Weight (g):	
Optical Properties	
0.7	Compatible Cover Glass Thickness (mm):
532, 1064	Design Wavelength DWL (nm):
0.13mm	Horizontal Field of View, 1/2" Sensor:
0.18mm	Horizontal Field of View, 2/3" Sensor:
4.00	Focal Length FL (mm):
50X	Magnification:
0.65	Numerical Aperture NA:
0.4	Resolving Power (μm):
0.70	Depth of Field (μm):
0.48	Field of View, 24 Diameter Field Eyepiece (mm):
0.36	Field of View, 18 Diameter Field Eyepiece (mm):
9.60	Working Distance (mm):
480 - 1800	Wavelength Range (nm):
95.24	Parfocal Length (mm):
N/A	
Immersion Liquid:	
Sensor	
2/3"	Maximum Sensor Format:
Threading & Mounting	
M26 x 36 TPI	Mounting Threads:
Environmental & Durability Factors	
23 ±2	Performance Assurance Temperature (°C):
Regulatory Compliance	
Exempt	RoHS 2015:
View	Certificate of Conformance:
Contains SVHC(s)	REACH 241:

PRODUCT DETAILS

- Ideal for Brightfield Imaging and Laser-Based Applications through LCD Glass
- Excellent Performance at Nd:YAG Laser Lines
- Compensate for Cover-Glass Thickness of 0.7mm or 1.1mm

Mitutoyo NIR, NUV, and UVLCD Infinity Corrected Objectives combine the benefits of the standard MPlan Apo and MPlan Apo SL series objectives with enhanced spectral ranges. The NIR objectives are corrected from 480 to 1800nm, making them ideal for semiconductor and telecommunication inspection, or for laser cutting with common Nd:YAG lasers. The HR series offers an increased numerical aperture, providing smaller spot sizes and higher resolution. Mitutoyo NIR, NUV, and UVLCD Infinity Corrected Objectives compensate for common LCD glass thicknesses. The NUV and UV series of objectives have excellent performance at the second, third, and fourth Nd:YAG harmonics of 532nm, 355nm, and 266nm respectively.

TECHNICAL INFORMATION



Units: mm

Dimensions				
M Plan NIR	A (mm)	B (mm)	C (mm)	W.D. (mm)
20X, T0.7	75.00	34	32.2	20.0
20X, T1.1	75.02	34	32.2	19.98
50X, T0.7	78.04	34	32.2	17.26
50X, T0.7 HR	77.74	34	32.2	9.60
50X, T1.1	77.87	34	32.2	17.13
100X	82.94	34	32.2	12.06
HR 100X	85.13	39	37	9.87
M Plan NUV	A (mm)	B (mm)	C (mm)	W.D. (mm)
20X, T0.7	78	34	32.2	16.96
50X, T0.7	80	34	32.2	14.76
100X, T1.1	83.97	34	32.2	11.03
M Plan UV	A (mm)	B (mm)	C (mm)	W.D. (mm)
20X, T0.7	80	34	32.2	14.98
50X, T0.7	83	34	32.2	12.38