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100X T0.7 Mitutoyo

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General

Model Number:	378-754-15	Compatible Tube Lens Focal Length (mm):	Focal Length: 200mm
Type:	Microscope Objective	Style:	Infinity Corrected
Manufacturer:	Mitutoyo	Note:	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

Physical & Mechanical Properties

Length excluding Threads (mm):	82.94	Maximum Diameter (mm):	34
Weight (g):	335.00		

Optical Properties

Compatible Cover Glass Thickness (mm):	0.7	Design Wavelength DWL (nm):	532, 1064
Horizontal Field of View, 1/2" Sensor:	0.06mm	Horizontal Field of View, 2/3" Sensor:	0.09mm
Focal Length FL (mm):	2.00	Magnification:	100X

Numerical Aperture NA:	0.50	Resolving Power (μm):	0.6
Depth of Field (μm):	1.10	Field of View, 18 Diameter:	0.18
Field of View, 24 Diameter Field Eyepiece (mm):	0.24	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.</p> <p>Select Your Country/Region:</p> </div>	
Wavelength Range (nm):	480 - 1800		
Immersion Liquid:	N/A		
Sensor			
Maximum Sensor Format:	2/3"		
Threading & Mounting			
Mounting Threads:	M26 x 36 TPI		
Environmental & Durability Factors			
Performance Assurance Temperature (°C):	23 ±2		
Regulatory Compliance			
RoHS 2015:	Exempt	Certificate of Conformance:	View
REACH 241:	Contains SVHC(s)		

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 UV LCD Infinity Corrected Objectives combine the benefits of the standard M Plan Apo and M Plan 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 UV LCD 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

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

Dimensions

HR 100X	85.13	39	37	9.87
M Plan NUV	A (mm)			W.D. (mm)
20X, T0.7	78			16.96
50X, T0.7	80			14.76
100X, T1.1	83.97			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

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Mitutoyo Glass Thickness-Compensated Infinity Corrected Objectives



Mitutoyo NIR, NUV, and UV Infinity Corrected Objectives

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