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100X T1.1 Mitutoyo LCD Plan Apo NUV Infinity Corrected Objective

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A\$20,608^{.00}

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General	
378-751-4	Model Number:
Compatible Tube Lens Focal Length (mm): Focal Length: 200mm	
Microscope Objective	Type:
Infinity Corrected	Style:

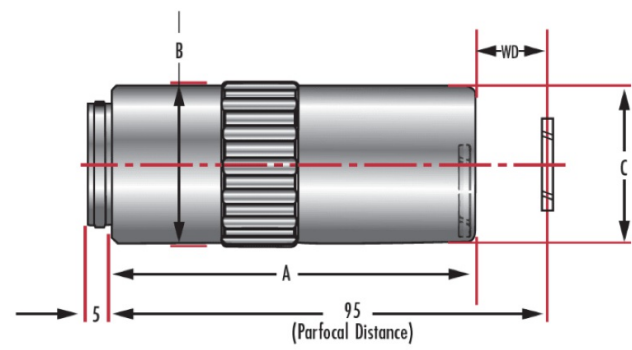
Manufacturer:	
Mtutoyo	
Note:	
1.1mm thick LCD cover-glass Example Application: High magnification inspection through liquid crystal glass (LCD) or cutting and trimming of semiconductor wafer and circuits	
Physical & Mechanical Properties	
Length excluding Threads (mm):	
83.97	
Maximum Diameter (mm):	
34	
Weight (g):	
380.00	
Optical Properties	
Compatible Cover Glass Thickness (mm):	
1.1	
Design Wavelength DWL (nm):	
355, 532	
Horizontal Field of View, 1/2" Sensor:	
0.06mm	
Horizontal Field of View, 2/3" Sensor:	
Not Listed	
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, 24 Diameter Field Eyepiece (mm):	
0.24	
Working Distance (mm):	
11.03	
Wavelength Range (nm):	
355 - 620	
Parfocal Length (mm):	
95.37	
Immersion Liquid:	
N/A	
Sensor	
Maximum Sensor Format:	
1/2"	
Threading & Mounting	
Mounting Threads:	
M26 x36 TPI	
Environmental & Durability Factors	
Operating Temperature (°C):	
-5 to +45	
Operating Humidity:	
20 - 80%	
Performance Assurance Temperature (°C):	
23 ±2	
Regulatory Compliance	
Certificate of Conformance:	
View	

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 InfinityCorrected 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 InfinityCorrected 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