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20X T1.1 Mitutoyo LCD Plan Apo NIR Infinity Corrected Objective

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S\$5,208^{.00}

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General	
378-827-16	Model Number:
Compatible Tube Lens Focal Length (mm): Focal Length: 200mm	
Microscope Objective	Type:
Infinity Corrected	Style:

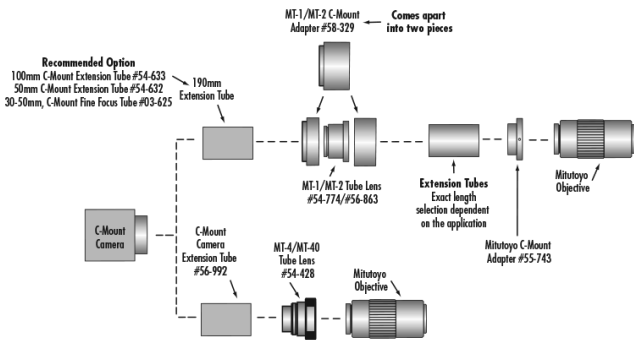
Manufacturer:		Mitutoyo
Note:		1.1mm thick LCD cover-glass Example Application: High magnification inspection through liquid crystal glass (LCD) or cutting and trimming of semiconductor wafer and circuits
Physical & Mechanical Properties		
Length excluding Threads (mm):		75.00
Maximum Diameter (mm):		34
Weight (g):		305.00
Optical Properties		
Compatible Cover Glass Thickness (mm):		1.1
Design Wavelength DWL (nm):		532, 1064
Horizontal Field of View, 1/2" Sensor:		0.32mm
Horizontal Field of View, 2/3" Sensor:		0.44mm
Focal Length FL (mm):		10.00
Magnification:		20X
Numerical Aperture NA:		0.40
Resolving Power (µm):		0.7
Depth of Field (µm):		1.70
Field of View, 24 Diameter Field Eyepiece (mm):		1.2
Field of View, 18 Diameter Field Eyepiece (mm):		0.9
Working Distance (mm):		19.98
Wavelength Range (nm):		480 - 1800
Parfocal Length (mm):		95.37
Immersion Liquid:		N/A
Sensor		
Maximum Sensor Format:		2/3"
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		
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

Mtutoyo NIR, NUV, and UV LCD 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. Mtutoyo 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
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