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50X T0.7 Mitutoyo LCD Plan UV Infinity Corrected Objective

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C\$31,584^{.00}

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General	
378-893-8	Model Number:
Compatible Tube Lens Focal Length (mm): Focal Length: 200mm	
Microscope Objective	Type:
Infinity Corrected	Style:

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):		82.60
Maximum Diameter (mm):		34
Weight (g):		400.00

Optical Properties

Compatible Cover Glass Thickness (mm):		0.7
Design Wavelength DWL (nm):		266, 532
Horizontal Field of View, 1/2" Sensor:		0.13mm
Horizontal Field of View, 2/3" Sensor:		0.18mm
Focal Length FL (mm):		4.00
Magnification:		50X
Numerical Aperture NA:		0.41
Resolving Power (μm):		0.7
Depth of Field (μm):		1.60
Field of View, 24 Diameter Field Eyepiece (mm):		0.48
Field of View, 18 Diameter Field Eyepiece (mm):		0.36
Working Distance (mm):		12.38
Parfocal Length (mm):		95.22
Immersion Liquid:		N/A

Sensor

Maximum Sensor Format:		2/3"
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Threading & Mounting

Mounting Threads:		M26 x36 TPI
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Environmental & Durability Factors

Performance Assurance Temperature (°C):		23 ±2
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Regulatory Compliance

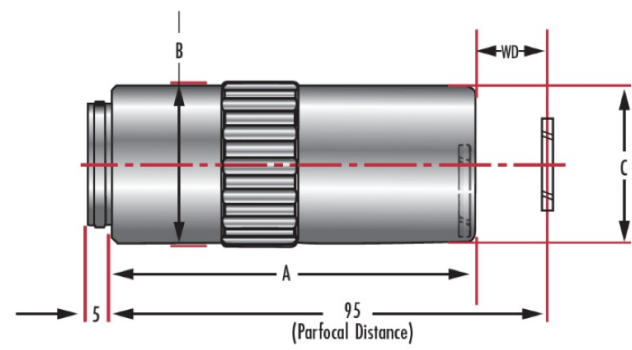
RoHS 2015:		Exempt
Certificate of Conformance:		View
REACH 241:		Contains SVHC(s)

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 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