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

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### General

**Model Number:**  
378-751-4

**Compatible Tube Lens Focal Length (mm):**  
Focal Length: 200mm

**Type:**  
Microscope Objective

**Style:**  
Infinity Corrected

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):  
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 ( $\mu\text{m}$ ):  
0.6

Depth of Field ( $\mu\text{m}$ ):  
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 ( $^{\circ}\text{C}$ ):  
-5 to +45

Operating Humidity:  
20 - 80%

Performance Assurance Temperature ( $^{\circ}\text{C}$ ):  
23  $\pm$ 2

## Regulatory Compliance

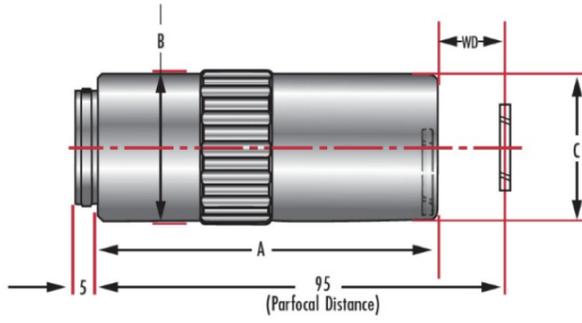
Certificate of Conformance:  
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## Product Details

- 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 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 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



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