

20X Mitutoyo Plan Apo NIR Infinity Corrected Objective

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20X Mtutoyo Plan Apo NIR Infinity Corrected Objective, #46-404

Stock **#46-404** 4 In Stock

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1

+

C\$5,866^{.00}

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SPECIFICATIONS

General	
378-824-16	Model Number:
Compatible Tube Lens Focal Length (mm): Focal Length: 200mm	
Microscope Objective	Type:

Infinity Corrected	Style:
Mtutoyo	Manufacturer:
Example Application: cutting and trimming of semiconductor wafer and circuits	Note:
Physical & Mechanical Properties	
75.00	Length excluding Threads (mm):
34	Maximum Diameter (mm):
300.00	Weight (g):
Optical Properties	
N/A	Compatible Cover Glass Thickness (mm):
532, 1064	Design Wavelength DWL (nm):
0.32mm	Horizontal Field of View, 1/2" Sensor:
0.44mm	Horizontal Field of View, 2/3" Sensor:
10.00	Focal Length FL (mm):
20X	Magnification:
0.40	Numerical Aperture NA:
0.7	Resolving Power (μm):
1.70	Depth of Field (μm):
1.2	Field of View, 24 Diameter Field Eyepiece (mm):
0.9	Field of View, 18 Diameter Field Eyepiece (mm):
20.0	Working Distance (mm):
480 - 1800	Wavelength Range (nm):
95	Parfocal Length (mm):
N/A	Immersion Liquid:
Sensor	
2/3"	Maximum Sensor Format:
Threading & Mounting	
M26 x 36 TPI	Mounting Threads:
Environmental & Durability Factors	
-5 to +45	Operating Temperature (°C):
20 - 80%	Operating Humidity:
Regulatory Compliance	
Exempt	RoHS 2015:
View	Certificate of Conformance:
Contains SVHC(s)	REACH 241:

PRODUCT DETAILS

- Ideal for Bright Field Imaging in UV, Visible, and NIR Spectral Regions

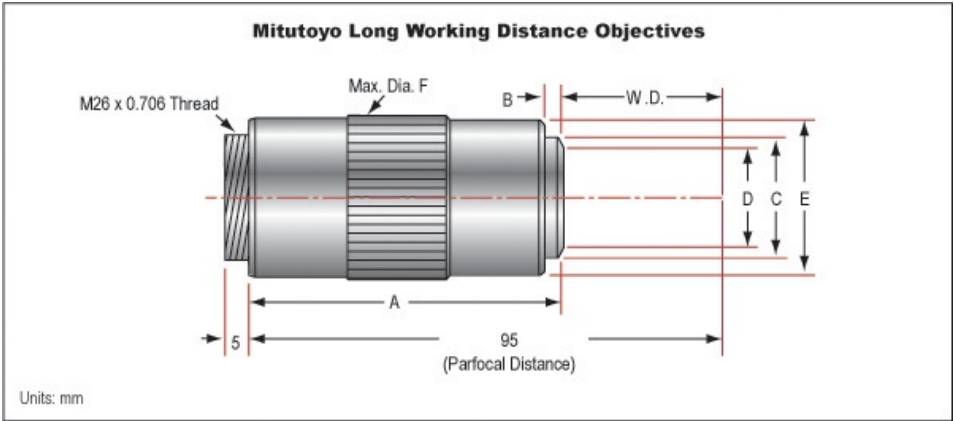
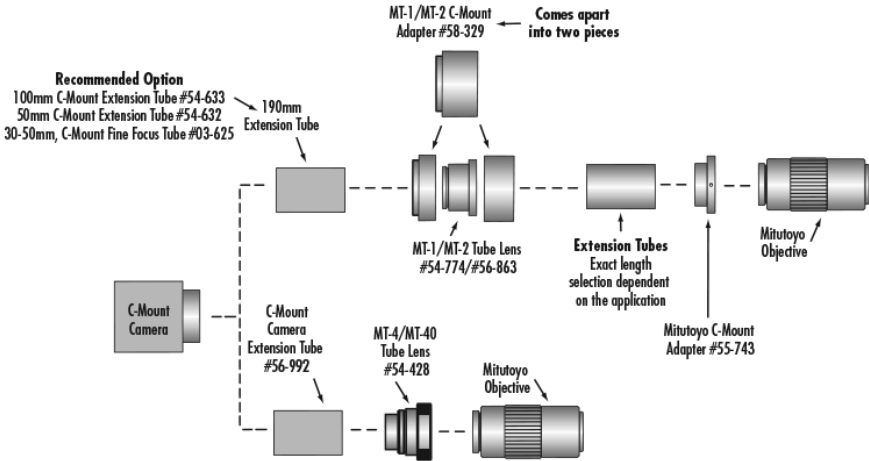
- Excellent Performance at Nd:YAG Laser Lines
- Broad Spectral Ranges

Mitutoyo NIR, NUV, and UV 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 and feature enhanced transmission of the fundamental and second harmonic of Nd:YAG lasers for laser cutting applications. The NUV and UV series of objectives also have excellent performance at the second, third, and fourth Nd:YAG harmonics of 532nm, 355nm, and 266nm respectively. Mitutoyo NIR, NUV, and UV Infinity Corrected Objectives are ideal for applications that require a significant distance between the objective lens and the object such as semiconductor inspection, machine vision, and defect detection. The HR series offers an increased numerical aperture, providing smaller spot sizes and higher resolution.

Accessory Tube Lenses

[Accessory Tube Lenses](#) and [C-Mount Thread Adapters](#) can be used to adapt the Mitutoyo objectives to additional configurations.

TECHNICAL INFORMATION



Dimensions (mm)								
Stock No.	M Plan NIR	A	B	C	D	E	F	W.D.
#46-402	5XNIR	57.50	-	23.80	23.00	32.20	34.00	37.50
#46-403	10XNIR	64.50	1.00	25.20	24.80	32.20	34.00	30.50
#46-404	20XNIR	75.00	-	-	-	32.20	34.00	20.00
#46-405	50XNIR	78.00	-	-	-	32.20	34.00	17.00
#46-406	100XNIR	83.00	-	25.00	24.60	32.20	34.00	12.00
#56-982	50XNIR HR	85.00	-	-	-	37.00	39.00	10.00
#56-983	100XNIR HR	85.00	-	-	-	37.00	39.00	10.00
#89-350	20XNIR B	69.50	-	-	-	37.00	37.00	25.50
#89-351	50XNIR B	69.50	-	-	-	37.00	37.00	25.50
#37-550*	20XNIR LCD	75.02	-	-	-	32.20	34.00	20.35
Stock No.	M Plan NUV	A	B	C	D	E	F	W.D.
#86-176	10XNUV	64.50	-	25.20	24.80	32.20	34.00	30.50
#46-407	20XNUV	78.00	-	-	-	32.20	34.00	17.00
#46-408	50XNUV	80.00	-	-	-	32.20	34.00	15.00
#46-409	100XNUV	84.00	1.80	25.00	24.00	32.20	34.00	11.00
#86-177	50XNUV/HR	85.00	-	-	-	37.00	39.00	10.00
Stock No.	M Plan UV	A	B	C	D	E	F	W.D.
#86-175	10XUV	75.00	-	-	-	32.20	34.00	20.00
#56-320	20XUV	80.00	-	-	-	32.20	34.00	15.00
#56-321	50XUV	83.00	-	-	-	32.20	34.00	12.00
#56-322	80XUV	85.00	-	22.70	-	32.20	34.00	10.00

*LCD 20X parfocal length is 95.37