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50X Mitutoyo Plan Apo NUV HR Infinity Corrected Objective

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Mitutoyo NIR, NUV, and UV Infinity Corrected Objectives

 Stock #86-177 [CONTACT US](#)

- 1 +

MRP ₹17,93,718

Price inclusive of all taxes

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| Volume Pricing | |
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| Qty 1+ | ₹17,93,718 each |
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Product Downloads

[EO Spec Sheet](#)

General

| | | | |
|----------------------|----------------------|--|---|
| Model Number: | 378-888-6 | Compatible Tube Lens Focal Length (mm): | Focal Length: 200mm |
| Type: | Microscope Objective | Style: | Infinity Corrected |
| Manufacturer: | Mitutoyo | Note: | Example Application: passivation (insulation films) of semiconductor circuits and repair of color filters of LCD panels (defect repair) |

Physical & Mechanical Properties

| | | | |
|---------------------------------------|--------|-------------------------------|----|
| Length excluding Threads (mm): | 85.00 | Maximum Diameter (mm): | 39 |
| Weight (g): | 500.00 | | |

Optical Properties

| | | | |
|---|------|---|----------|
| Compatible Cover Glass Thickness (mm): | N/A | Design Wavelength DWL (nm): | 355, 532 |
| Horizontal Field of View, 1/2" Sensor: | 0.13 | Horizontal Field of View, 2/3" Sensor: | 0.18mm |
| Focal Length FL (mm): | 4.00 | Magnification: | 50X |
| Numerical Aperture NA: | 0.65 | Resolving Power (µm): | 0.42 |
| Depth of Field (µm): | 0.65 | Field of View, 18 Diameter | 0.35 |

| | | | |
|--|----------------------------------|------------------------------------|--|
| | | Field Eyepiece (mm): | |
| Field of View, 24 Diameter Field Eyepiece (mm): | 0.48 | Working Distance (mm): | 10.0 |
| Wavelength Range (nm): | 355 - 620 | Parfocal Length (mm): | 95 |
| Immersion Liquid: | N/A | | |
| Sensor | | | |
| Maximum Sensor Format: | 2/3" | | |
| Threading & Mounting | | | |
| Mounting Threads: | M26 x 36 TPI | | |
| Environmental & Durability Factors | | | |
| Operating Temperature (°C): | -5 to +45 | Operating Humidity: | 20 - 80% |
| Regulatory Compliance | | | |
| RoHS 2015: | Exempt | Certificate of Conformance: | View |
| REACH 241: | Contains SVHC(s) | | |
| Country of Origin: | Japan | Imported By: | Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000 |

Product Details

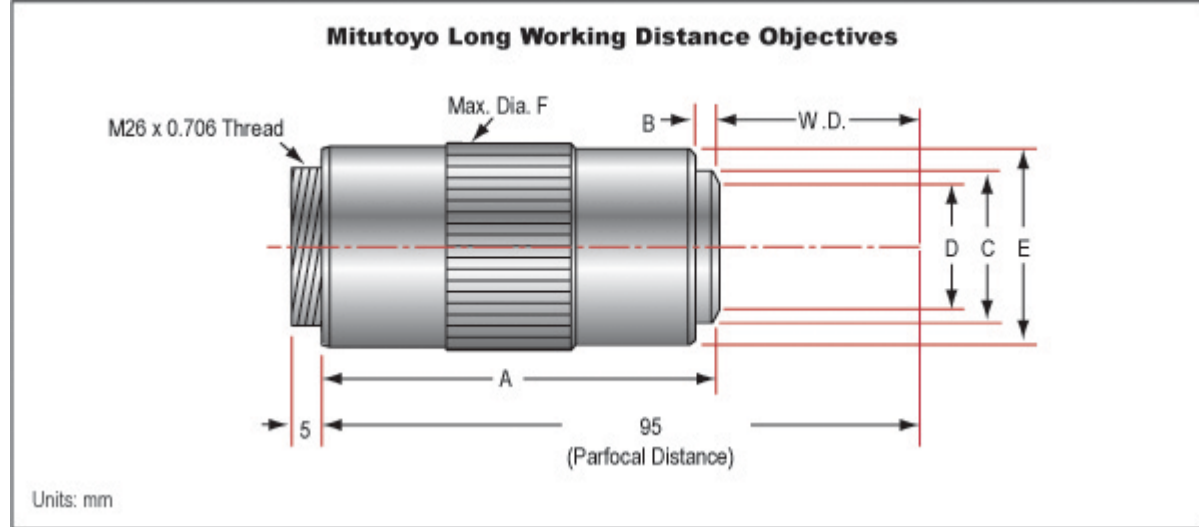
- Ideal for Bright Field Imaging in UV, Visible, and NIR Spectral Regions
- Excellent Performance at Nd:YAG Laser Lines
- Broad Spectral Ranges

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

*LCD 20X parafocal length is 95.37

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

| | Title | Compare | Stock Number | Price | Buy |
|--------------|-------------------------------------|---------|--------------|-----------------------------------|---|
| MORE+ | MT-L Accessory Tube Lens | | #56-073 | ₹2,37,357 Request Quote | 5 In Stock <input type="text" value="1"/> |
| MORE+ | Mitutoyo MT-L/MT-L4 C-Mount Adapter | | #66-027 | ₹23,364 Request Quote | 9 In Stock <input type="text" value="1"/> |

| ▲ | Title | Compare | Stock Number | Price | Buy |
|---|-------|---------|--------------|-------|-----|
|---|-------|---------|--------------|-------|-----|

MORE+

C-Mount Male to Mitutoyo (M26) Female Step-Up Adapter

#55-743

₹5,246
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Related Products



#55-743 - C-Mount Male to Mitutoyo (M26) Female Step-Up Adapter
₹5,246

Qty



Hard Coated OD 4.0 10nm Bandpass Filters



C, S, and T-Mount Extensions Tubes

Frequently Purchased Together



#56-983 - 100X Mitutoyo Plan Apo NIR HR Infinity Corrected Objective
₹12,25,548

Qty

Resources

Media Type

- Technical Tool
- Application Note
- FAQ
- Glossary
- Trending in Optics

TECHNICAL TOOL

Infinite Conjugate Tube Length

APPLICATION NOTE

Understanding Infinity Corrected Objective...

APPLICATION NOTE

Using Tube Lenses with Infinity Corrected...

? FAQ

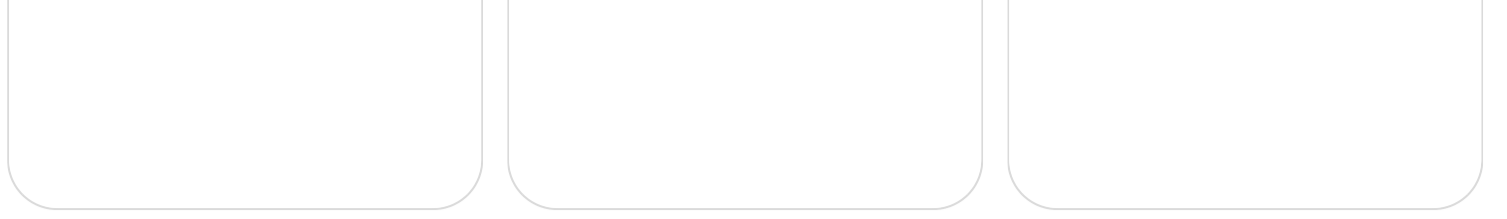
What is an "in-line" microscope?

? FAQ

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