

# 1X Mitutoyo Plan Apo Infinity Corrected Long WD Objective

See More by [Mitutoyo](#)



1X Mitutoyo Plan Apo Infinity Corrected Long WD Objective, #58-235

Stock **#58-235** 1 In Stock

-

1

+

£2,784<sup>09</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | £2,784.09 each                |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

## SPECIFICATIONS

### General

378-800-12

Model Number:

Compatible Tube Lens Focal Length (mm):

Focal Length: 200mm

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| Microscope Objective               | Type:                                           |
| Infinity Corrected                 | Style:                                          |
| Mitutoyo                           | Manufacturer:                                   |
| Physical & Mechanical Properties   |                                                 |
| 84.00                              | Length excluding Threads (mm):                  |
| 31.5                               | Maximum Diameter (mm):                          |
| 300.00                             | Weight (g):                                     |
| 10.00                              | Exit Pupil Diameter (mm):                       |
| Optical Properties                 |                                                 |
| N/A                                | Compatible Cover Glass Thickness (mm):          |
| 6.40mm                             | Horizontal Field of View, 1/2" Sensor:          |
| 8.80mm                             | Horizontal Field of View, 2/3" Sensor:          |
| 200.00                             | Focal Length FL (mm):                           |
| 1X                                 | Magnification:                                  |
| 0.025                              | Numerical Aperture NA:                          |
| 11.0                               | Resolving Power (μm):                           |
| 440.00                             | Depth of Field (μm):                            |
| 24.00                              | Field of View, 24 Diameter Field Eyepiece (mm): |
| 18.00                              | Field of View, 18 Diameter Field Eyepiece (mm): |
| 11.0                               | Working Distance (mm):                          |
| 435 - 655                          | Wavelength Range (nm):                          |
| 95                                 | Parfocal Length (mm):                           |
| N/A                                | Immersion Liquid:                               |
| Sensor                             |                                                 |
| 2/3"                               | Maximum Sensor Format:                          |
| Threading & Mounting               |                                                 |
| M26 x36 TPI                        | Mounting Threads:                               |
| Environmental & Durability Factors |                                                 |
| +5 to +40                          | Operating Temperature (°C):                     |
| 20 - 80%                           | Operating Humidity:                             |
| Regulatory Compliance              |                                                 |
| Exempt                             | RoHS 2015:                                      |
| View                               | Certificate of Conformance:                     |
| Contains SVHC(s)                   | REACH 241:                                      |

## PRODUCT DETAILS

**Note:** If this objective is being used with the VMU-HR (EO 23338), use the included ¼ wavelength plate in conjunction with the Polarizer-Analyzer (EO 71009). This will help reduce flares or stray light.

- Long Working Distances

- Bright Field Inspection
- High Quality Plan Apochromat Design
- Flat Image Surface over Entire Field of View

Mitutoyo Infinity Corrected Long Working Distance Objectives are world-renowned for setting the standard of excellence for long working distance microscope optics. They have achieved the best combination of working distance and optical performance by using a new approach—avoiding outdated conventions used by competitors. Making the objectives larger and longer has made the designs easier (95mm parfocalization length). The lenses are all Plano Apochromats to maintain as high an N.A. and contrast as possible. An apochromatic objective lens is chromatic aberration corrected for red, blue, and yellow, while a standard achromatic objective lens is only corrected for red and blue. Plano Apochromats are typically very expensive, but high-volume production has made it possible to keep the cost down comparative to standard Achromat long working distance objectives. Mitutoyo Infinity Corrected Long Working Distance Objectives are optimized for bright field illumination (incident illumination parallel to the optical axis) and are ideal for in-line illumination applications. A secondary (or tube) lens is required for an infinity correction system. All stated magnifications are based on a tube lens focal length of 200mm. Mounting thread: M26 x 0.706 pitch (36 TPI).

M Plan Apo SL Series

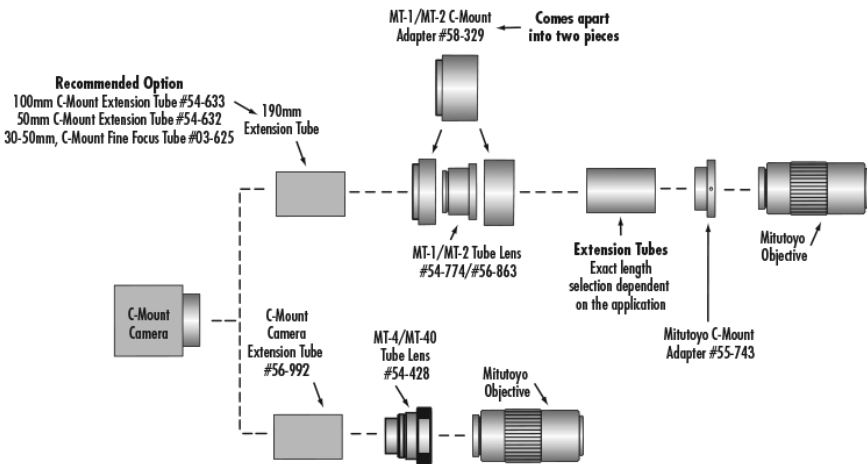
- Super-Long Working Distance for Bright Field Inspection
- 13mm Working Distance for 100X and 200X Models
- High Quality Apochromat Design
- Flat Image Surface over Entire Field of View
- Good Color Reproducibility

Accessory Tube Lenses

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

Edmund Optics is the main source for Mitutoyo Objectives. Place your orders now for these in demand quality products.

TECHNICAL INFORMATION



| Stock No. | M Plan Apo    | A    | B   | C    | D    | E    | F    | W.D. |
|-----------|---------------|------|-----|------|------|------|------|------|
| #58-235   | 1X            | 84.0 | -   | 38.0 | -    | 41.0 | 34.0 | 11.0 |
| #46-142   | 2X            | 61.0 | 1.4 | 27.5 | 24.7 | 32.2 | 34.0 | 34.0 |
| #46-143   | 5X            | 61.0 | 1.6 | 25.0 | 23.0 | 32.2 | 34.0 | 34.0 |
| #66-383   | 7.5X          | 60.0 | -   | 25.0 | 24.0 | 32.2 | 34.0 | 35.0 |
| #46-144   | 10X           | 61.0 | 2.0 | 28.2 | -    | 32.2 | 34.0 | 34.0 |
| #46-145   | 20X           | 75.0 | 1.5 | 29.2 | -    | 32.2 | 34.0 | 20.0 |
| #46-146   | 50X           | 82.0 | 1.5 | 29.2 | -    | 32.2 | 34.0 | 13.0 |
| #46-147   | 100X          | 89.0 | 4.7 | 29.2 | 17.8 | 32.2 | 34.0 | 6.0  |
| Stock No. | M Plan Apo HR | A    | B   | C    | D    | E    | F    | W.D. |
| #34-247   | 5X HR         | 69.5 | 3.7 | 24.8 | -    | 32.2 | 34.0 | 25.5 |
| #58-236   | 10X HR        | 80.0 | 7.5 | 29.0 | 26.0 | 37.0 | 39.0 | 15.0 |
| #58-237   | 50X HR        | 89.8 | 2.0 | 28.2 | -    | 32.2 | 34.0 | 5.2  |
| #58-238   | 100X HR       | 93.7 | 2.0 | 28.2 | -    | 32.2 | 34.0 | 1.3  |
| Stock No. | M Plan APO SL | A    | B   | C    | D    | E    | F    | W.D. |
| #46-398   | 20X SL        | 64.5 | 1.5 | 24.8 | 24.0 | 32.2 | 34.0 | 30.5 |
| #46-399   | 50X SL        | 74.5 | 3.9 | 25.2 | 23.5 | 32.2 | 34.0 | 20.5 |
| #46-401   | 100X SL       | 82.0 | 1.4 | 23.9 | 22.0 | 32.2 | 34.0 | 13.0 |

