

# 7.5X Mitutoyo BD Plan Apo Objective

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Mitutoyo Brightfield and Darkfield (BD) Infinity Corrected Objectives

Stock **#18-404** 1 In Stock

-

1

+

C\$3,031<sup>.00</sup>

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| Qty 1+         | C\$3,031.00 each              |
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Product Downloads

| General                                                        |               |
|----------------------------------------------------------------|---------------|
| 378-830-7                                                      | Model Number: |
| Compatible Tube Lens Focal Length (mm):<br>Focal Length: 200mm |               |
| Microscope Objective                                           | Type:         |
| Infinity Corrected                                             | Style:        |
|                                                                | Manufacturer: |

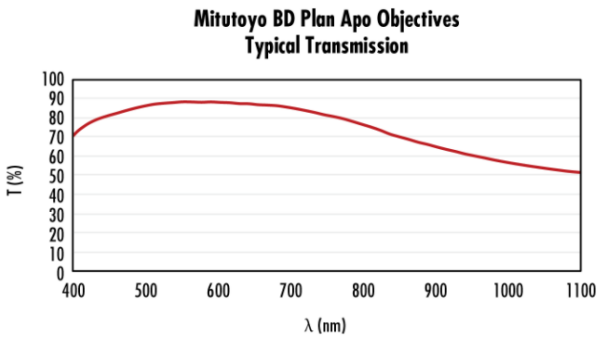
|                                                                               |                                                 |
|-------------------------------------------------------------------------------|-------------------------------------------------|
| Mitutoyo                                                                      |                                                 |
| <div>Note:<br/>#18-653 or #18-652 are required for darkfield operation.</div> |                                                 |
| Physical & Mechanical Properties                                              |                                                 |
| 61.00                                                                         | Length excluding Threads (mm):                  |
| 44                                                                            | Maximum Diameter (mm):                          |
| 350                                                                           | Weight (g):                                     |
| Optical Properties                                                            |                                                 |
| N/A                                                                           | Compatible Cover Glass Thickness (mm):          |
| 26.67                                                                         | Focal Length FL (mm):                           |
| 7.5X                                                                          | Magnification:                                  |
| 0.21                                                                          | Numerical Aperture NA:                          |
| 1.3                                                                           | Resolving Power (μm):                           |
| 6.20                                                                          | Depth of Field (μm):                            |
| 3.6                                                                           | Field of View, 24 Diameter Field Eyepiece (mm): |
| 34                                                                            | Working Distance (mm):                          |
| 435 - 655                                                                     | Wavelength Range (nm):                          |
| 95                                                                            | Parfocal Length (mm):                           |
| N/A                                                                           | Immersion Liquid:                               |
| Sensor                                                                        |                                                 |
| 2/3"                                                                          | Maximum Sensor Format:                          |
| Threading & Mounting                                                          |                                                 |
| M40 x 36 TPI                                                                  | Mounting Threads:                               |
| Environmental & Durability Factors                                            |                                                 |
| +5 to +40                                                                     | Operating Temperature (°C):                     |
| Regulatory Compliance                                                         |                                                 |
| Exempt                                                                        | RoHS 2015:                                      |
| View                                                                          | Certificate of Conformance:                     |
| Contains SVHC(s)                                                              | REACH 241:                                      |

## Product Details

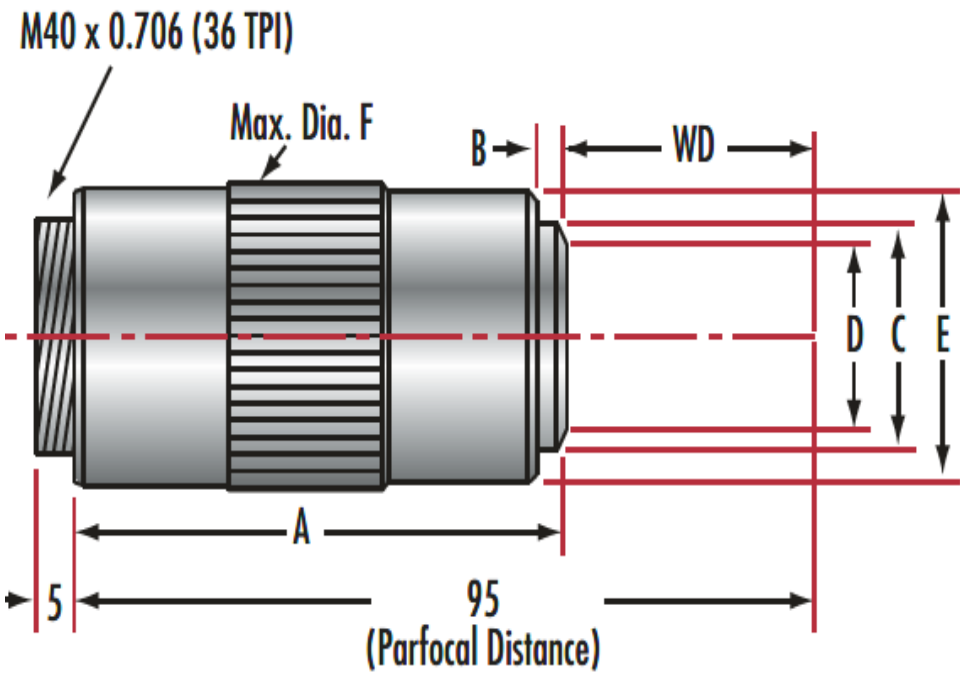
- Ideal for Brightfield and Darkfield Mcroscopy Applications
- Long Working Distances and High Numerical Apertures
- Plan Apochromat Design

Mitutoyo Brightfield and Darkfield (BD) InfinityCorrected Objectives offer long working distances with high numerical apertures. The high-quality plan apochromatic design allows these objectives to maintain high numerical apertures and contrast while correcting chromatic aberration in the visible wavelength region. These objectives feature M40 x36TPI mounting threads. Mitutoyo Brightfield and Darkfield (BD) InfinityCorrected Objectives are optimized for both brightfield and darkfield illumination for applications including surface inspection and advanced life science microscopy.

## Technical Information



| Stock No. | BD Plan Apo    | A    | B    | C    | D    | E    | F    | W.D. |
|-----------|----------------|------|------|------|------|------|------|------|
| #18-402   | 2X             | 61.0 | 4.0  | 40.0 | 37.0 | 42.0 | 44.0 | 34.0 |
| #18-403   | 5X             | 61.0 | 4.0  | 40.0 | 37.0 | 42.0 | 44.0 | 34.0 |
| #18-404   | 7.5X           | 61.0 | 4.0  | 40.0 | 37.0 | 42.0 | 44.0 | 34.0 |
| #18-405   | 10X            | 61.0 | 4.0  | 40.0 | 37.0 | 42.0 | 44.0 | 34.0 |
| #18-406   | 20X            | 75.0 | 7.0  | 40.0 | 32.0 | 42.0 | 44.0 | 20.0 |
| #18-407   | 50X            | 82.0 | 8.5  | 40.0 | 32.0 | 42.0 | 44.0 | 13.0 |
| #18-408   | 100X           | 89.0 | 10.0 | 40.0 | 31.5 | 42.0 | 44.0 | 6.0  |
| Stock No. | BD Plan Apo SL | A    | B    | C    | D    | E    | F    | W.D. |
| #18-409   | 20XSL          | 64.5 | 7.5  | 40.0 | 31.0 | 42.0 | 44.0 | 30.5 |
| #18-410   | 50XSL          | 75.0 | 7.0  | 40.0 | 32.0 | 42.0 | 44.0 | 20.0 |
| Stock No. | BD Plan APO HR | A    | B    | C    | D    | E    | F    | W.D. |
| #18-411   | 50XHR          | 89.9 | 4.8  | 40.0 | 32.0 | 42.0 | 44.0 | 5.2  |
| #18-412   | 100XHR         | 93.7 | 4.7  | 40.0 | 32.0 | 42.0 | 44.0 | 1.3  |



Units: mm