

# 100X Mitutoyo BD Plan Apo Objective

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Mitutoyo Brightfield and Darkfield (BD) Infinity Corrected Objectives

Stock **#18-408** 1 In Stock

-

1

+

€4.995<sup>.00</sup>

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|----------------|-------------------------------|
| Qty 1+         | €4.995,00 each                |
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**i** Prices shown are exclusive of VAT/local taxes

Product Downloads

| General                                                        |               |
|----------------------------------------------------------------|---------------|
| 378-836-7                                                      | Model Number: |
| Compatible Tube Lens Focal Length (mm):<br>Focal Length: 200mm |               |
| Microscope Objective                                           | Type:         |
| Infinity Corrected                                             | Style:        |

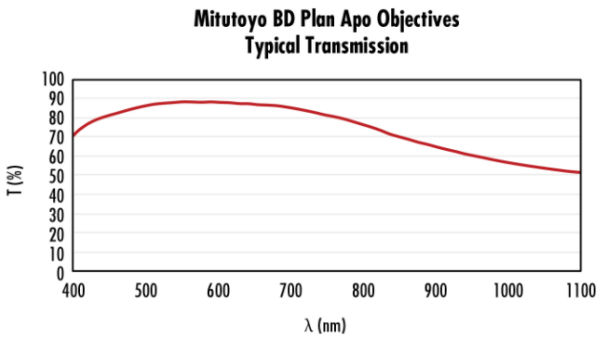
|                                                                          |                                                 |
|--------------------------------------------------------------------------|-------------------------------------------------|
| Mitutoyo                                                                 | Manufacturer:                                   |
| <b>Note:</b><br>#18-653 or #18-652 are required for darkfield operation. |                                                 |
| Physical & Mechanical Properties                                         |                                                 |
| 89.00                                                                    | Length excluding Threads (mm):                  |
| 44                                                                       | Maximum Diameter (mm):                          |
| 460                                                                      | Weight (g):                                     |
| Optical Properties                                                       |                                                 |
| N/A                                                                      | Compatible Cover Glass Thickness (mm):          |
| 2.00                                                                     | Focal Length FL (mm):                           |
| 100X                                                                     | Magnification:                                  |
| 0.7                                                                      | Numerical Aperture NA:                          |
| 0.4                                                                      | Resolving Power (µm):                           |
| 0.60                                                                     | Depth of Field (µm):                            |
| 0.24                                                                     | Field of View, 24 Diameter Field Eyepiece (mm): |
| 6                                                                        | 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

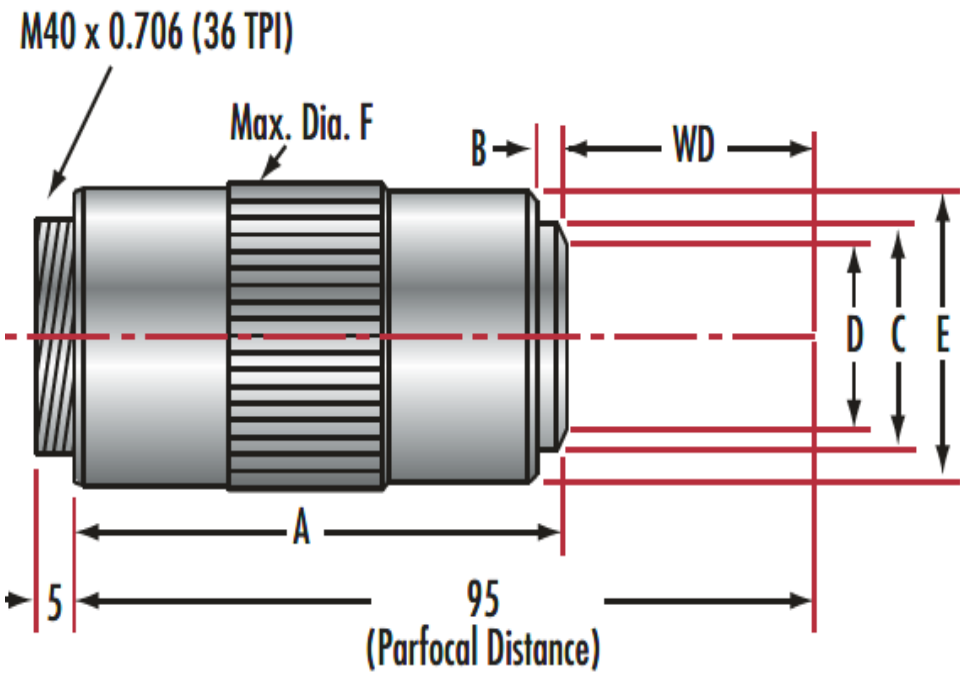
- Ideal for Brightfield and Darkfield Microscopy Applications
- Long Working Distances and High Numerical Apertures
- Plan Apochromat Design

Mitutoyo Brightfield and Darkfield (BD) Infinity Corrected 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 x 36TPI mounting threads. Mitutoyo Brightfield and Darkfield (BD) Infinity Corrected 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