

G Plan Apo 50X Objective

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General

378-848-3 **Model Number:**

Compatible Tube Lens Focal Length (mm):
Focal Length: 200mm

Microscope Objective **Type:**

Infinity Corrected **Style:**

Mitutoyo **Manufacturer:**

Physical & Mechanical Properties

81.10 Length excluding Threads (mm):

34 Maximum Diameter (mm):

320.00 Weight (g):

Optical Properties

3.5 Compatible Cover Glass Thickness (mm):

0.13mm Horizontal Field of View, 1/2" Sensor:

0.18mm Horizontal Field of View, 2/3" Sensor:

4.00 Focal Length FL (mm):

50X Magnification:

0.50 Numerical Aperture NA:

0.6 Resolving Power (μm):

1.10 Depth of Field (μm):

0.48 Field of View, 24 Diameter Field Eyepiece (mm):

13.89 (15.08 through compatible cover glass) Working Distance (mm):

436 - 656 Wavelength Range (nm):

96.19 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 +40 Operating Temperature ($^{\circ}\text{C}$):

20 - 80% Operating Humidity:

Regulatory Compliance

[Exempt](#) RoHS 2015:

[View](#) Certificate of Conformance:

[Contains SVHC\(s\)](#) REACH 241:

Product Details

- Infinity Corrected, Plan Apochromatic Designs
- Can Observe Objects through 3.5mm Thick Glass
- Ultra-Long Working Distances
- Image into Vacuum Cells, Optical Traps, Cold Atoms

Mitutoyo Glass Thickness-Compensated Infinity Corrected Objectives are ideal for imaging through glass in a variety of [brightfield inspection microscopy applications](#), including inspecting LCDs, semiconductors, or flat screen television monitors, or for imaging into a vacuum. These G Plan APO objectives can also be used in a range of life science applications, such as imaging through a coverslip or mediums like agar, water, or nutrients. Mitutoyo Glass Thickness-Compensated Infinity Corrected Objectives feature excellent color reproducibility and a flat image surface over the entire field of view.

Technical Information

G Plan Apo 50X

(Working distance): Glass thickness 3.5mm

