

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):

34

Weight (g):

320.00

Optical Properties

Compatible Cover Glass Thickness (mm):

3.5

Horizontal Field of View, 1/2" Sensor:

0.13mm

Horizontal Field of View, 2/3" Sensor:

0.18mm

Focal Length FL (mm):

4.00

Magnification:

50X

Numerical Aperture NA:

0.50

Resolving Power (μm):

0.6

Depth of Field (μm):

1.10

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

0.48

Working Distance (mm):

13.89 (15.08 through compatible cover glass)

Wavelength Range (nm):

436 - 656

Parfocal Length (mm):

96.19

Immersion Liquid:

N/A

Sensor

Maximum Sensor Format:

2/3"

Threading & Mounting

Mounting Threads:

M26 x 36 TPI

Environmental & Durability Factors

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

+5 to +40

Operating Humidity:

20 - 80%

Regulatory Compliance

RoHS 2015:

[Exempt](#)

Certificate of Conformance:

[View](#)

REACH 241:

[Contains SVHC\(s\)](#)

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

