

## 50X Mitutoyo WLI Plan Apo Objective

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### General

**Model Number:**  
378-403

**Compatible Tube Lens Focal Length (mm):**  
Focal Length: 100mm

**Style:**  
Infinity Corrected

**Manufacturer:**  
Mitutoyo

**Note:**

Designed to be used with a 100mm Tube Lens, Sold Separately

## Physical & Mechanical Properties

58.00 Length (mm):

40.00 Maximum Diameter (mm):

300.00 Weight (g):

## Optical Properties

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

2.00 Focal Length FL (mm):

50X Magnification:

0.70 Numerical Aperture NA:

0.39 Resolving Power ( $\mu\text{m}$ ):

0.56 Depth of Field ( $\mu\text{m}$ ):

2.00 Working Distance (mm):

11.00 Field Number (mm):

60.00 Parfocal Length (mm):

## Sensor

2/3" Maximum Sensor Format:

## Threading & Mounting

RMS/20.32mm x36 TPI Mounting Threads:

## Regulatory Compliance

[View](#) Certificate of Conformance:

## Product Details

- Ideal for Interferometry Applications
- Long Working Distances and High Numerical Apertures
- High-Quality Plan Apochromatic Design

Mitutoyo WLI Plan APO Infinity Corrected Objectives are high-resolution plan apochromatic objectives featuring high numerical apertures designed for use in white light interferometry applications. These objectives ensure long parfocal working distances of 60mm while maintaining a more compact and lightweight design. Each objective incorporates an interference fringe adjustment mechanism and internal beam splitter for precise measurements and control of the interference fringe pattern. Mitutoyo WLI Plan APO Infinity Corrected Objectives are available with magnifications ranging from 2.5 – 50x and are designed for use with 100mm focal length tube lenses. These objectives are ideal for white light interferometry applications such as Vertical Scanning Interferometry (VSI), 3D Surface Profiling, Dispersion & Reflection Measurement, and Medical Imaging.