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# Olympus UPLAPO 100X Oil Immersion Objective

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#90-690 Olympus UPLAPO 100Xoil Immersion Objective

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## General

**Model Number:**  
UPLAPO100XOHR

**Compatible Tube Lens Focal Length (mm):**  
Focal Length: 180mm

**Type:**  
Microscope Objective

**Style:**  
Infinity Corrected

**Manufacturer:**

Recommended Immersion Oil [#86-834](#) **Note:**

## Physical & Mechanical Properties

0.22 **Field of View (mm):**

44.77 **Length excluding Threads (mm):**

31.5 **Maximum Diameter (mm):**

182 **Weight (g):**

## Optical Properties

0.13-0.19 **Compatible Cover Glass Thickness (mm):**

1.80 **Focal Length FL (mm):**

100X **Magnification:**

1.50 **Numerical Aperture NA:**

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

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

0.12 **Working Distance (mm):**

22 **Field Number (mm):**

45 **Parfocal Length (mm):**

Oil **Immersion Liquid:**

## Threading & Mounting

RMS / 20.32mm x 36 TPI **Mounting Threads:**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

## Product Details

- The First Plan-Corrected Apochromat Objectives with NA of 1.50
- Ideal for Total Internal Reflection Fluorescence (TIRF) & SuperResolution Applications
- Enhanced Image Flatness, Light Throughput, and Chromatic Correction

Olympus High Resolution TIRF Plan Apochromat Objectives are the first plan-corrected apochromat objectives to achieve a numerical aperture of 1.50 using standard oil immersion. These objectives deliver superior image flatness, high light throughput, and exceptional chromatic correction across the visible spectrum. Their high NA enables enhanced resolution and contrast, critical for discerning fine structural details in demanding imaging systems. Olympus High Resolution TIRF Plan Apochromat Objectives are optimized for TIRF and super-resolution techniques such as TIRF-RIM (Random Illumination Microscopy), TIRF-SIM (Structured Illumination Microscopy), and STORM (Stochastic Optical Reconstruction Microscopy), providing maximum signal efficiency while minimizing phototoxicity. These objectives are the ideal choice for researchers requiring the highest fidelity in live-cell, membrane, and single-molecule imaging applications.