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Olympus UPLAPO 100X Oil Immersion Objective

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#90-690 Olympus UPLAPO 100X oil 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:

Olympus

Note:

Recommended Immersion Oil **#86-834**

Physical & Mechanical Properties

Field of View (mm):

0.22

Length excluding Threads (mm):

44.77

Maximum Diameter (mm):

31.5

Weight (g):

182

Optical Properties

Compatible Cover Glass Thickness (mm):

0.13-0.19

Focal Length FL (mm):

1.80

Magnification:

100X

Numerical Aperture NA:

1.50

Resolving Power (µm):

0.22

Depth of Field (µm):

0.19

Working Distance (mm):

0.12

Field Number (mm):

22

Parfocal Length (mm):

45

Immersion Liquid:

Oil

Entrance Pupil Diameter (mm):

5.40

Threading & Mounting

Mounting Threads:

RMS / 20.32mm x 36 TPI

Regulatory Compliance

Certificate of Conformance:

View

Product Details

- The First Plan-Corrected Apochromat Objectives with NA of 1.50
- Ideal for Total Internal Reflection Fluorescence (TIRF) & Super‖Resolution 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.

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