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## Olympus PLN 100X Oil Immersion, Ph3, Phase Contrast Objective



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### Product Downloads

### General

**Model Number:**  
 PLN100XOPH  
**Type:**  
 Microscope Objective  
**Style:**  
 Phase Contrast  
**Manufacturer:**  
 Olympus

**Note:**  
 Recommended Immersion Oil #86-834 Requires  
 Ph3 phase annulus for phase contrast observation

## Physical & Mechanical Properties

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

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

24 **Maximum Diameter (mm):**

## Optical Properties

N/A **Compatible Cover Glass Thickness (mm):**

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

100X **Magnification:**

1.25 **Numerical Aperture NA:**

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

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

0.15 **Working Distance (mm):**

22 **Field Number (mm):**

45 **Parfocal Length (mm):**

Oil **Immersion Liquid:**

1760 **Depth of Focus ( $\mu\text{m}$ ):**

## Threading & Mounting

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

## Regulatory Compliance

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

## Product Details

- Flat-Field Plan Achromat Design for Sharp, Distortion-Free Images
- Precision Phase Ring Matching (Ph1, Ph2, Ph3) For Optimal Contrast
- Available In Multiple Magnifications (10X, 20X, 40X) Plus A 100X Oil Immersion Option
- Optimized For the UIS2 Optical System, Ensuring Seamless Integration with Olympus CX43

Olympus PLN Phase Contrast Objectives provide high-performance imaging for precise cellular analysis on the [Olympus CX43](#) microscope. These objectives are engineered for accurate phase contrast imaging across magnifications, offering excellent contrast and flat-field correction. Designed specifically for the UIS2 optical system, they deliver sharp, high-clarity images ideal for live, unstained specimens. Olympus PLN Phase Contrast Objectives, such as the 10X Ph1 ([#86-935](#)) and 100X Ph3 oil ([#87-013](#)), ensure reliable results across a wide range of biological applications. Their consistent quality and compatibility with standard Olympus phase contrast condensers make them a trusted choice for professional labs.