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Olympus LCPLN50XIR 50X NIR Objective

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Olympus LCPLN50XIR 50X NIR Objective

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General

Model Number:
LCPLN50XIR

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

Type:
Microscope Objective

Style:
Infinity Corrected

Manufacturer:

Olympus

Physical & Mechanical Properties

Field of View (mm):
0.44

Length excluding Threads (mm):
40.50

Maximum Diameter (mm):
31.00

Weight (g):
169

Optical Properties

Compatible Cover Glass Thickness (mm):
Glass: 0 - 1.2mm
Silicon: 0 - 1.2mm

Focal Length FL (mm):
3.60

Magnification:
50X

Numerical Aperture NA:
0.65

Resolving Power (µm):
0.52

Depth of Field (µm):
0.65

Working Distance (mm):
Glass: 4.50 - 3.76mm
Silicon: 4.50 - 4.20mm

Wavelength Range (nm):
400 - 1600

Field Number (mm):
22

Parfocal Length (mm):
45

Immersion Liquid:
N/A

Threading & Mounting

Mounting Threads:
RMS / 20.32mm x 36 TPI

Regulatory Compliance

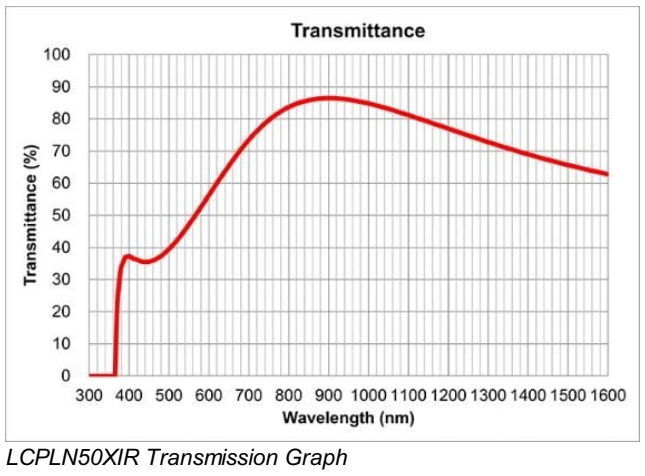
Certificate of Conformance:
View

Product Details

- Long Working Distances to Reduce Risk of Specimen Damage
- Correction Collars to Adjust for Specimen Thickness
- Ideal for Silicon Wafer Inspection

Olympus Plan Achromatic Near-Infrared Objectives provide high transmission between 700 - 1600nm, making them an excellent choice for near-infrared microscopy when coupled with an NIR tube lens. These objectives feature long working distances to reduce the risk of damage to specimens and support up to field number 22 for observation. Magnifications of 20X and higher feature a correction collar to correct for aberrations based on the thickness of either the glass or silicon substrate being inspected. Olympus Plan Achromatic Near-Infrared Objectives are ideal for use in silicon wafer inspection to view the internal structure for defects.

Technical Information



LCPLN50XIR Transmission Graph