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# Olympus 50X WLI Objective

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**General**

**Model Number:**  
WLI50XMRTC

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

**Type:**  
Microscope Objective

**Style:**  
Infinity Corrected

**Manufacturer:**  
Olympus

**Note:**  
Designed to be used with a 180mm Tube Lens,  
Sold Separately

## Physical & Mechanical Properties

0.44	<b>Field of View (mm):</b>
44.00	<b>Length excluding Threads (mm):</b>
31.5	<b>Maximum Diameter (mm):</b>

## Optical Properties

3.60	<b>Focal Length FL (mm):</b>
50X	<b>Magnification:</b>
0.80	<b>Numerical Aperture NA:</b>
0.42	<b>Resolving Power (<math>\mu\text{m}</math>):</b>
0.43	<b>Depth of Field (<math>\mu\text{m}</math>):</b>
1	<b>Working Distance (mm):</b>
22	<b>Field Number (mm):</b>
45	<b>Parfocal Length (mm):</b>
1074.2	<b>Depth of Focus (<math>\mu\text{m}</math>):</b>
5.76	<b>Entrance Pupil Diameter (mm):</b>

## Threading & Mounting

RMS / 20.32mm x 36 TPI	<b>Mounting Threads:</b>
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## Regulatory Compliance

<a href="#">Exempt</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## Product Details

- Combines High Numerical Aperture and Broad Field of View
- Thermal Compensation & Stability Features
- Suitable for 3D Surface Metrology and Profilometry

Olympus WLI Infinity Corrected Interferometry Objectives' advanced optical design combines a high numerical aperture with a broad field of view, capturing fine surface details across large areas for visual clarity. Each objective features a built-in adjustment ring that compensates for temperature-induced focused shifts, allowing stability and consistent measurement accuracy even under unstable environmental conditions. These objectives are designed to be used with a 180mm focal length tube lens and are available in magnification of 10 – 50X. Olympus WLI Infinity Corrected Interferometry Objectives are ideal for 3D surface metrology and profilometry applications, including semiconductor inspection, precision machining, optical coating evaluation, and microelectronic characterization.