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100X Nikon CF IC Epi Plan DI Mirau Interferometry Objective

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Nikon Interferometry Objectives

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C\$24,640^{.00}

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Field of View, 20 Diameter Field Eyepiece (mm):
0.20

General	
Model Number:	MUL40900
Compatible Tube Lens Focal Length (mm): Focal Length: 200mm	
Type:	Microscope Objective
Style:	

Infinity Corrected	
Manufacturer:	
Nikon	
Note:	
Features a reference mirror adjustment knob	
Physical & Mechanical Properties	
Field of View (mm):	
5.50	
Length excluding Threads (mm):	
43.00	
Maximum Diameter (mm):	
35	
Weight (g):	
200.00	
Optical Properties	
Horizontal Field of View, 1/2" Sensor:	
0.08mm	
Horizontal Field of View, 2/3" Sensor:	
0.011mm	
Focal Length FL (mm):	
2.00	
Magnification:	
100X	
Numerical Aperture NA:	
0.70	
Resolving Power (μm):	
0.4	
Depth of Field (μm):	
0.56	
Field of View, 25 Diameter Field Eyepiece (mm):	
0.25	
Working Distance (mm):	
2.0	
Field Number (mm):	
25	
Parfocal Length (mm):	
45	
Immersion Liquid:	
N/A	
Sensor	
Maximum Sensor Format:	
2/3"	
Threading & Mounting	
Mounting Threads:	
RMS / 20.32mm x 36 TPI	
Regulatory Compliance	
RoHS 2015:	
Compliant	
Certificate of Conformance:	
View	

Product Details

- Suitable for Non-Contact Optical Profiling
- Michelson and Mirau Objectives Available
- Infinity Corrected 200mm Tube Lens Design

Nikon Interferometry Objectives are used in non-contact optical profile measurement devices to obtain surface maps and surface measurement parameters. They can be used to examine surface topography with very high precision —to within a fraction of the wavelength of light. In these objectives, a light beam passes through a beamsplitter, which directs the light to both the surface of the sample and a built-in reference mirror. The light reflected from these surfaces recombines and a fringe interference pattern is formed. Nikon Interferometry Objectives are available in magnifications ranging from 2.5X to 100X.

The Michelson objectives provide comparatively longer working distances, wider fields of view and larger depth of field, whereas the Mirau objectives are used in applications requiring higher magnification and/or numerical apertures. Use of the Nikon 200mm tube lens ([#58-520](#)) allows these objectives to be integrated to a C-Mount camera.