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2.5X Nikon CF IC Epi Plan TI Michelson Interferometry Objective

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Nikon Interferometry Objectives

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Field of View, 20 Diameter Field Eyepiece (mm):
8.00

General

Model Number:
MUL42031

Compatible Tube Lens Focal Length (mm):
Focal Length: 200mm

Type:
Microscope Objective

Style:

Infinity Corrected

Manufacturer:
Nikon

Note:
Side port hosts the reference mirror and adjustment knob

Physical & Mechanical Properties

Field of View (mm):
8.00

Length excluding Threads (mm):
69.80

Maximum Diameter (mm):
39

Weight (g):
440.00

Optical Properties

Horizontal Field of View, 1/2" Sensor:
2.56mm

Horizontal Field of View, 2/3" Sensor:
3.52mm

Focal Length FL (mm):
80.00

Magnification:
2.5X

Numerical Aperture NA:
0.07

Resolving Power (µm):
3.7

Depth of Field (µm):
48.60

Working Distance (mm):
10.3

Field Number (mm):
22

Parfocal Length (mm):
80.1

Immersion Liquid:
N/A

Sensor

Maximum Sensor Format:
2/3"

Threading & Mounting

Mounting Threads:
M27 x 0.75

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.

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