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## 50X Nikon CFI60 TU Plan Epi ELWD Infinity Corrected Obj

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#58-518: 50X Nikon CFI60 TU Plan Epi ELWD

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#### General

**Model Number:**  
MUE21500

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

**Type:**  
Microscope Objective

**Style:**  
Infinity Corrected

Nikon **Manufacturer:**

## Physical & Mechanical Properties

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

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

30 **Maximum Diameter (mm):**

130.00 **Weight (g):**

## Optical Properties

0.13mm **Horizontal Field of View, 1/2" Sensor:**

0.18mm **Horizontal Field of View, 2/3" Sensor:**

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

50X **Magnification:**

0.60 **Numerical Aperture NA:**

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

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

0.5 **Field of View, 25 Diameter Field Eyepiece (mm):**

0.44 **Field of View, 22 Diameter Field Eyepiece (mm):**

11.00 **Working Distance (mm):**

22 **Field Number (mm):**

60 **Parfocal Length (mm):**

N/A **Immersion Liquid:**

## Sensor

2/3" **Maximum Sensor Format:**

## Threading & Mounting

M25 x 0.75 **Mounting Threads:**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

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

## Product Details

- Excellent Color Reproduction
- Long Working Distance and High NA
- High Contrast with Minimal Flare
- Strain Free

Nikon CF160 Infinity Corrected Brightfield Objectives are designed to meet advanced imaging requirements and are the culmination of Nikon's optical technology. The objectives offer increased brightness and the highest possible combination of working distance and numerical aperture (for light gathering ability) due to the 60mm parfocal distance and a large barrel diameter. Designed to correct lateral and axial chromatic aberrations over the entire field of view, these objectives produce high contrast and high-resolution images. Nikon CF160 Infinity Corrected Brightfield Objectives have excellent color reproduction, strain free. These brightfield objectives are offered in magnifications from 5X up to 100X.

The accessory tube lens ([#58-520](#)) can be used to focus light from the infinity corrected objective onto the image plane. For optimal performance, the distance between the tube lens and the objective's shoulder should be kept within 100-200mm. This spacing allows accessories to be inserted in the optical path to accommodate specific needs. This tube lens can be integrated into C-Mount systems using the Nikon Tube Lens to C-Mount Holder ([#11-150](#)).

**Note:** The four socket head cap screws must be removed to place the tube lens within the Nikon Tube Lens to C-Mount Holder.

## Technical Information



	5X	10X	20X	50X	100X
A	29.0mm	29.0mm	29.0mm	30.0mm	30.0mm
B	36.3mm	42.4mm	40.9mm	48.9mm	55.4mm
C	20.0mm	17.0mm	22.5mm	21.5mm	21.5mm

**Nikon CF160 Infinity Corrected Brightfield Objectives**

