

## K2 Close-Focus Objective CF-3

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### Product Downloads

### General

Lens Accessory **Type:**

### Physical & Mechanical Properties

68.00 **Length (mm):**

58.0 **Maximum Diameter (mm):**

### Optical Properties

Horizontal Field of View, 1/2" Sensor:  
2.1 - 3.1mm

Working Distance (mm):  
95 - 122

Magnification:  
3.56X - 2.29X

Numerical Aperture (NA) Range:  
0.2 - 0.156

## Threading & Mounting

Diameter of Compatible Optics (mm):  
49

## Regulatory Compliance

RoHS 2015:  
[Compliant](#)

Reach 224:  
[Compliant](#)

Certificate of Conformance:  
[View](#)

## Product Details

- Multiple Configurations for Video/Photo/Visual Applications
- 3X Greater Magnification than Other Coaxial In-line Systems
- Highest Possible Long-Distance Resolution
- Focus from Infinity to 54mm
- Supplementary Focuser Available for CentriTel™ Capabilities

Infinity K2/DistaMax™ Long Distance Video Microscopes, recognized as the standard in long-distance microscopes, now incorporate a patent-pending IVS focus system, further improving what was already a top performer. The IVS focus system makes the K2 DistaMax™ easier to use than previous models. To begin using the K2 DistaMax™, simply choose an objective for the front and a camera mount for the rear.

Infinity K2-DistaMax™ Long Distance Video Microscopes offer high magnifications and a dynamic working distance range, covering all sensors up to 35mm (43mm diagonal) formats.

The K2 DistaMax™ Single-Port package includes a manual iris for light level and depth of field control. The Dual-Port package includes a right angle mirror for switching between views (not simultaneous viewing), in addition to the parts included in the Single-Port package. The K2 DistaMax™ is ideal for applications ranging from remote vacuum chamber viewing to on-line process control.

The NWE Objective allows focus from infinity to as near as 675mm. Perhaps the most versatile K2 DistaMax™ objective, the NWE also can be used with the Microscope Objective Adapter Disc and other accessories. All objectives attach directly to a front dovetail. When combined with NWE Objective, Microscope Objective Adapter Disc, and Objective Adapter, the K2 DistaMax™ can interface common infinity-corrected microscope objectives, even when the Coaxial In-line Illuminator is used, making it a powerful direct coaxial in-line system. To enable CentriTel® for all formats simply add the CentriTel® Focuser, [#87-430](#). For viewing through an eyepiece (not included), adapter [#58-796](#) is required.

## Technical Information

Description		Stock No.
Main Body	One Required	Video Lens - K2 Single Port <a href="#">#87-426</a>
		Video Lens - K2 Dual Port <a href="#">#87-427</a>
Mount Adapter	One Required	C-Mount Camera Adapter <a href="#">#88-956</a>
		Nikon F-Mount Camera Adapter <a href="#">#42-835</a>
		62mm Eyepiece Tube (for viewing) <a href="#">#58-796</a>
Amplifiers	Optional	CF Tube (1.66x) <a href="#">#65-041</a>
		DL Doubler Tube (2X Video) <a href="#">#39-686</a>
		Lockable Doubler Tube (2X Video) <a href="#">#57-714</a>
		NTX Tube 2X (Large Format) <a href="#">#86-892</a>
Components	Optional	Centritel™ Focuser <a href="#">#87-430</a>
		Mounting Bar <a href="#">#86-888</a>
Objective/ Objective Adapter	One Required	<b>Near-Wide-Extreme Range</b>
		K2 Objective NWE <a href="#">#87-428</a>
		<b>Standard Range</b>
		K2 Objective STD <a href="#">#39-339</a>
		<b>Close-Focus Range</b>
		K2 Objective CF-1 <a href="#">#39-340</a>
		K2 Objective CF-1/B <a href="#">#57-721</a>
		K2 Objective CF-2 <a href="#">#39-341</a>
		K2 Objective CF-3 <a href="#">#39-342</a>
		K2 Objective CF-4 <a href="#">#52-829</a>
		<b>High-Power Micro Range</b>
		K2 Microscope Adapter Disc <a href="#">#87-429</a>
		Mitutoyo/Achrovid Objective Adapter (M26) <a href="#">#53-787</a>
		Nikon CF160 Objective Adapter (M25) <a href="#">#54-589</a>

	NWE*	STD	CF-1	CF-1/B	CF-2	CF-3	CF-4
Primary Magnification	0.12X - 0.6X	1.1X - 0.34X	1.28X - 0.61X	1.4X - 0.8X	2.67X - 1.52X	3.56X - 2.29X	6.1X - 4.57X
Field of View (1/2" sensor) (mm)	53.3 - 10.7	6.74 - 20.5	5.0 - 12.2	4.6 - 9.0	2.8 - 4.7	2.1 - 3.1	1.2 - 1.5
Numerical Aperture	0.006 - 0.028	0.051 - 0.02	0.088 - 0.036	0.083 - 0.049	0.136 - 0.099	0.2 - 0.156	0.204 - 0.172
Working Distance (mm)	675 - 3000	370 - 946	215 - 530	228 - 388	140 - 192	95 - 122	54 - 64
Size (Dia. x L) (mm)	58 x 53	58 x 53	58 x 65	58 x 53	58 x 41	58 x 68	48 x 54.7

\*NWE Objective will focus to infinity.