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Standard w/ In-Line Assembly (Optimized at 10X+), InfiniTube

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Standard (with no In-Line Attachment), InfiniTube, #56-125



Stock **#54-590** **3 In Stock**

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1

+

€2.470⁰⁰

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Volume Pricing	
Qty 1+	€2.470,00 each
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Product Downloads

General	
	Model Number:
InfiniTube™ Standard 1X & Collector II	
	Type:
Fixed Magnification Lens	
	Type of Illumination:
In-Line Illumination	

Optical Properties	
Refractive Index (n)	1.50
Transmittance (%)	95.0
Absorbance (A)	0.02
Color	Colorless
Fluorescence	None

Objective Required	Primary Magnification PMAG
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Threading & Mounting

C-Mount **Mount:**

Regulatory Compliance

Compliant	RoHS 2015:	
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Compliant

Reach 224:

[View](#) Certificate of Conformance:

Product Details

- Direct to Video C-Mount for 2/3" and Smaller Sensor Cameras ([InfinitiTube™ FM Series](#) for 1/2")
- [Mitutoyo](#) and [Achromid™](#) Objectives Sold Separately
- Internal Focusing
- See Description Tab for Required Components

This in-line assembly unit is used to mount **Mitutoyo** or **Achrovid™** long working-distance objectives to C-mount cameras, yielding magnifications not possible with ordinary video lenses, such as 50X magnification. The InfiniTube™ system can be configured in a variety of fashions. It can be utilized alone (InfiniTube™ Standard **#56-125**) for applications where illumination is provided from another source such as a backlight or directional illumination.

The first in-line attachment (#56-126) has been designed for high performance with objectives having a magnification of 10X or below and is not suggested for use with higher magnification objectives. The second in-line unit (#56-191) has been designed to work with increased efficiency when used with magnifications of 10X or higher, but can be utilized with all magnifications. An InfiniTube™ In-line Assembly (#54-590) is also offered, comprised of the InfiniTube™ Standard and the higher magnification in-line attachment. This Assembly can be used with all magnifications. A filter holder, which attaches to the InfiniTube™ itself, can be added to the systems to introduce 25mm diameter filters. These lenses are commonly used in microscopy and wafer inspection.

By utilizing an in-path beamsplitter and side-port illumination tube with collimating optics, the In-Line Assembly (#54-590) provides incident illumination parallel to the optical axis (coaxial). Coaxial illumination requires an optional [Fiber Optic Illuminator](#) and a 1/4" diameter [Fiber Optic Light Guide](#).

A version of the InfiniTube™ is specifically designed only for Zeiss ICS-corrected objectives (#58-538, 160mm tube lens design). Shorter than the Standard model, this model has color-compatible correction for use exclusively with Zeiss ICS objectives. The RMS adapter (#53-786) is required to connect #58-538 to the Zeiss EC Plan-Neofluar® objectives.

The RMS adapter (#53-786) is required to connect #58-538 to the Zeiss ICS objectives. Since even the slightest vibration will affect such small fields-of-view seen with the InfiniTube™ we recommend vibration isolation equipment when using objectives greater than 10X in magnification. We also recommend the use of a focusing mechanism (such as the Rack and Pinion Movement mount #54-794) when using the lens alone.

Mounting clamp (#57-788) is included with #54-590, #56-125 and #58-538. Note that an objective, objective adapter, light guide, and illuminator are not included.

Technical Information



#54-562	
Item	Stock No.
InfiniTube In-Line Assembly Unit	#54-590
Hitachi KP-D20B Camera	#55-837
15.1" LCD Monitor (US Version Only)	#56-522
Y-C Cable (6 ft.)	#39-255
Mitutoyo/Achrovid™ Objective Adapter	#53-787
MI-150 Fiber Optic Illuminator	#55-718
Fiber Optic Light Guide (48" L)	#39-367
Fiber Optic Adapter	#38-944
Standard Boom Stand	#54-120
Rack & Pinion Mounting Plate	#54-123