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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

+

\$3,458⁰⁰

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Volume Pricing	
Qty 1+	\$3,458.00 each
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General	
Model Number:	
InfiniTube™ Standard 1X& Collector II	
Type:	
Fixed Magnification Lens	
Type of Illumination:	
In-Line Illumination	

Optical Properties	
Refractive Index	1.50
Transmittance (%)	92
Absorbance (nm)	210-220
Fluorescence (nm)	280-300
UV-Vis Spectrum	210-220
FTIR Spectrum	2800-3000
NMR Spectrum	7.0-8.0
Mass Spectrum	100-200
Thermal Stability	200-300
Thermal Conductivity	0.1-0.2
Thermal Expansion	10-20
Thermal Shrinkage	5-10
Thermal Degradation	300-400
Thermal Decomposition	400-500
Thermal Oxidation	500-600
Thermal Reduction	600-700
Thermal Polymerization	700-800
Thermal Crystallization	800-900
Thermal Melting	900-1000
Thermal Solidification	1000-1100
Thermal Annealing	1100-1200
Thermal Curing	1200-1300
Thermal Sintering	1300-1400
Thermal Firing	1400-1500
Thermal Calcination	1500-1600
Thermal Pyrolysis	1600-1700
Thermal Gasification	1700-1800
Thermal Liquefaction	1800-1900
Thermal Hydrogenation	1900-2000
Thermal Nitrogenation	2000-2100
Thermal Sulfurization	2100-2200
Thermal Phosphorization	2200-2300
Thermal Arsenization	2300-2400
Thermal Antimony Doping	2400-2500
Thermal Boron Doping	2500-2600
Thermal Fluorination	2600-2700
Thermal Chlorination	2700-2800
Thermal Bromination	2800-2900
Thermal Iodination	2900-3000
Thermal Oxidation	3000-3100
Thermal Reduction	3100-3200
Thermal Polymerization	3200-3300
Thermal Crystallization	3300-3400
Thermal Melting	3400-3500
Thermal Solidification	3500-3600
Thermal Annealing	3600-3700
Thermal Curing	3700-3800
Thermal Sintering	3800-3900
Thermal Firing	3900-4000
Thermal Calcination	4000-4100
Thermal Pyrolysis	4100-4200
Thermal Gasification	4200-4300
Thermal Liquefaction	4300-4400
Thermal Hydrogenation	4400-4500
Thermal Nitrogenation	4500-4600
Thermal Sulfurization	4600-4700
Thermal Phosphorization	4700-4800
Thermal Arsenization	4800-4900
Thermal Antimony Doping	4900-5000
Thermal Boron Doping	5000-5100
Thermal Fluorination	5100-5200
Thermal Chlorination	5200-5300
Thermal Bromination	5300-5400
Thermal Iodination	5400-5500
Thermal Oxidation	5500-5600
Thermal Reduction	5600-5700
Thermal Polymerization	5700-5800
Thermal Crystallization	5800-5900
Thermal Melting	5900-6000
Thermal Solidification	6000-6100
Thermal Annealing	6100-6200
Thermal Curing	6200-6300
Thermal Sintering	6300-6400
Thermal Firing	6400-6500
Thermal Calcination	6500-6600
Thermal Pyrolysis	6600-6700
Thermal Gasification	6700-6800
Thermal Liquefaction	6800-6900
Thermal Hydrogenation	6900-7000
Thermal Nitrogenation	7000-7100
Thermal Sulfurization	7100-7200
Thermal Phosphorization	7200-7300
Thermal Arsenization	7300-7400
Thermal Antimony Doping	7400-7500
Thermal Boron Doping	7500-7600
Thermal Fluorination	7600-7700
Thermal Chlorination	7700-7800
Thermal Bromination	7800-7900
Thermal Iodination	7900-8000
Thermal Oxidation	8000-8100
Thermal Reduction	8100-8200
Thermal Polymerization	8200-8300
Thermal Crystallization	8300-8400
Thermal Melting	8400-8500
Thermal Solidification	8500-8600
Thermal Annealing	8600-8700
Thermal Curing	8700-8800
Thermal Sintering	8800-8900
Thermal Firing	8900-9000
Thermal Calcination	9000-9100
Thermal Pyrolysis	9100-9200
Thermal Gasification	9200-9300
Thermal Liquefaction	9300-9400
Thermal Hydrogenation	9400-9500
Thermal Nitrogenation	9500-9600
Thermal Sulfurization	9600-9700
Thermal Phosphorization	9700-9800
Thermal Arsenization	9800-9900
Thermal Antimony Doping	9900-10000
Thermal Boron Doping	10000-10100
Thermal Fluorination	10100-10200
Thermal Chlorination	10200-10300
Thermal Bromination	10300-10400
Thermal Iodination	10400-10500
Thermal Oxidation	10500-10600
Thermal Reduction	10600-10700
Thermal Polymerization	10700-10800
Thermal Crystallization	10800-10900
Thermal Melting	10900-11000
Thermal Solidification	11000-11100
Thermal Annealing	11100-11200
Thermal Curing	11200-11300
Thermal Sintering	11300-11400
Thermal Firing	11400-11500
Thermal Calcination	11500-11600

Objective Required	Primary Magnification PMAG
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Threading & Mounting

C-Mount	Mount:
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Regulatory Compliance	
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Regulatory Compliance	
GDPR Compliance: - Consent Management: All data collection activities require explicit user consent, documented in the system logs. - Data Minimization: Only necessary data is collected and stored for the intended purpose. - Access Control: Strict role-based access controls (RBAC) are implemented to ensure only authorized personnel can access sensitive data.	SOX Compliance: - Financial Reporting: All financial transactions are accurately recorded and reported in a timely manner. - Internal Controls: Robust internal controls are in place to prevent fraud and ensure the integrity of financial data. - Audit Trail: Comprehensive audit trails are maintained for all financial transactions, enabling full transparency and accountability.

Compliant RoHS 2015:

Compliant **Reach 224:**

[View](#) Certificate of Conformance:

Product Details

- Direct to Video C-Mount for 2/3" and Smaller Sensor Cameras ([InfiniTube™ 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](#).

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
Mtutoyo/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