

InfiniTube In-Line Assembly



- * Direct to Video C-Mount for 2/3" and Smaller CCD Cameras
- * Long Working Distance Objectives Sold Separately
- * Provides Coaxial Illumination for Infinite Conjugate Objectives

This in-line assembly unit is used to mount long working-distance objectives to CCD cameras to yield magnifications not possible with ordinary video lenses, such as 50X. The InfiniTube system can be configured in a variety of fashions. It can be utilized alone (InfiniTube Standard) for applications where illumination is provided from another source such as a backlight or directional illumination. The first inline attachment 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 inline unit 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 is also offered, comprised of the InfiniTube Standard and the lower 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 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.

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) when using the lens alone.

Note that an objective, objective adapter, light guide, and illuminator are not included.

Specification Table

Effective Focal Length of Assembly	200mm			
Vertical Length	154mm			
Horizontal Length	40mm			
Diameter (max.)	33mm			
System Includes	In-Line Assembly Unit		Fiber Optic Illuminator	
	Color CCD Camera		Fiber Optic Light Guide	
	Y-C Cable (6 ft.)		Fiber Optic Adapter	
	13" Color Monitor		Standard Boom Stand	
	Objective Adapter		Rack & Pinion Mounting Plate	