

Z-Axis Manual Focus Unit for Mitutoyo Widefield Video Microscope Unit

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#89-622 + Objective



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- 1 + **C\$5,390⁰⁰**

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SPECIFICATIONS

General

Manufacturer:
Mitutoyo

Compatible Objectives:

Physical & Mechanical Properties	
50	Travel (mm):
2700	Weight (g):
17.4	Load Capacity (kg):

Regulatory Compliance	
Exempt	RoHS 2015:
View	Certificate of Conformance:
Contains SVHC(s)	REACH 241:

PRODUCT DETAILS

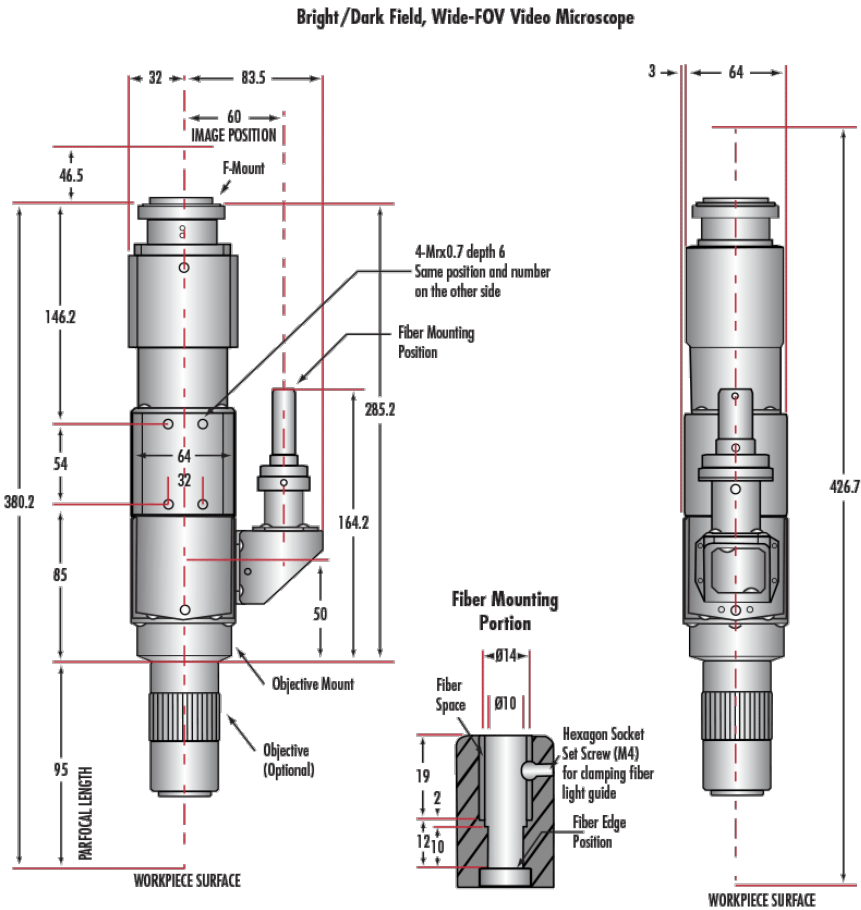
- Designed for M26 x36 TPI or M40 x36 TPI [Infinity Corrected Objectives](#)
- Maximum Sensor Size up to 2/3" or APS-C
- Vertical and Horizontal Orientations, Brightfield and Darkfield Configurations Available
- In-Line Fiber Illumination Port Compatible with 8mm or 1/4" (0.312") Diameter Ferrules

The Mitutoyo Video Microscope Units (VMU) are used to connect [infinity corrected objectives](#) to a [C-mount or F-mount camera](#) for quick and easy setup of microscopy systems. Providing 1X magnification, the Mitutoyo Video Microscope Unit (VMU) features an in-line illumination port for maximum contrast and simple illumination compared to epi-illumination techniques. The Brightfield VMU configurations are fitted with an adjustable iris to control light throughput without adjusting camera shutter or gain.

The Mtutoyo VMU is available in standard (for 2/3" format sensors) and widefield (for APS-C format sensors) with options for the camera port to be oriented at 90 or 180 degrees with respect to the objective. In addition to broadband versions, the VMU is also available in a specialized Nd:YAG Laser Line configuration, supporting 355, 532, and 1064nm lasers, as well as versions specifically designed for Darkfield Microscopy. Mtutoyo Video Microscope Units (VMU) utilize optics optimized for the NUV, VIS, or NIR spectra, making them ideal and directly compatible with a wide selection of [Mitutoyo infinity corrected objectives](#).

Mitutoyo Manual Turrets are available for each VMU configuration. They feature four objective mounts which enable quick transition between multiple objectives of different magnifications. Pairing the turret with the VMU creates a flexible video imaging microscope system.

TECHNICAL INFORMATION

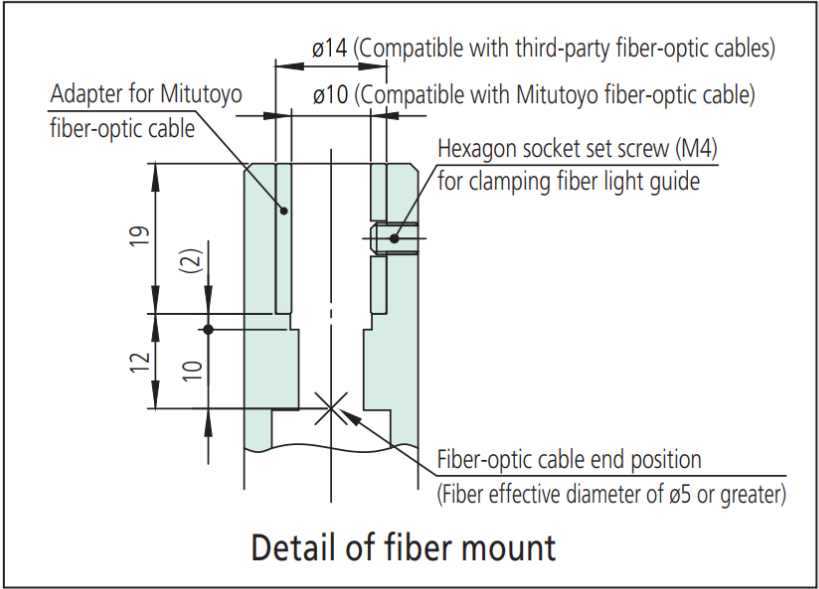
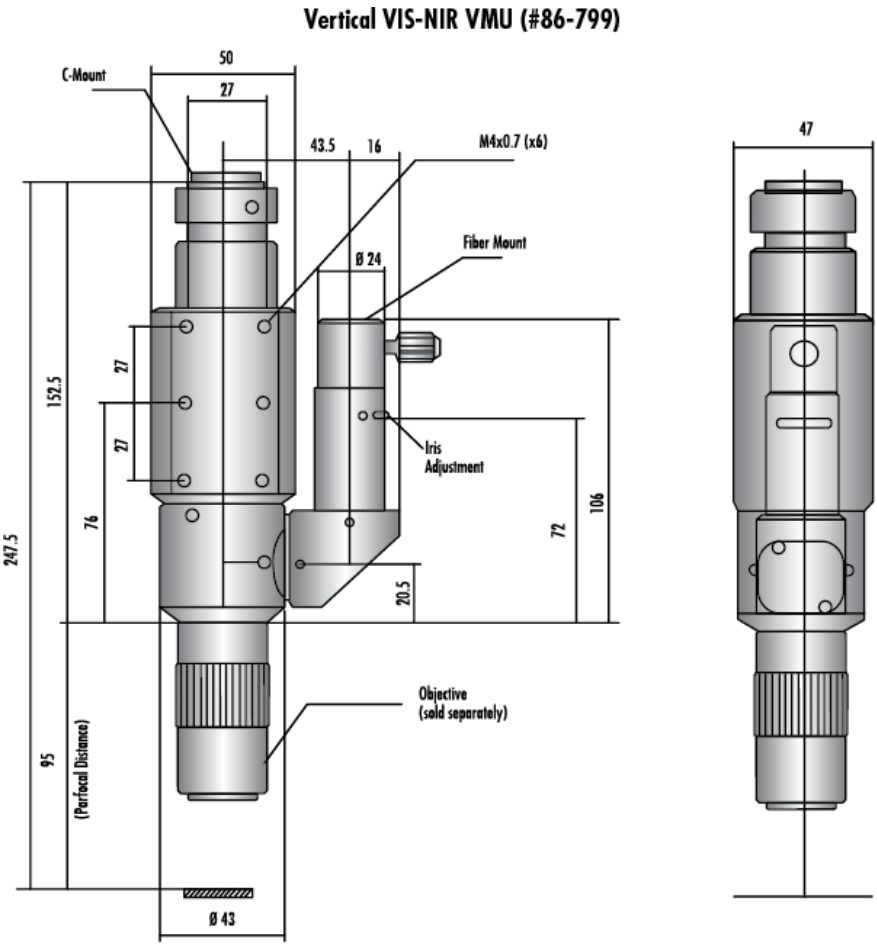


The technical drawing illustrates the C-mount adapter from three perspectives: front, side, and top views.

- Front View:** Shows the overall length of 208.5 mm. The parfocal distance is 95 mm. Key diameters include $\varnothing 35$ at the C-mount interface and $\varnothing 43$ at the base. Mounting holes are specified as M4 x 0.7 (x6). A central optical axis is indicated by a dashed red line.
- Side View:** Provides lateral dimensions, including a total width of 106 mm and a mounting flange diameter of 43.5 mm. It also shows a 20.5 mm offset for the objective mount.
- Top View:** Displays the circular footprint of the device, with a total diameter of 47 mm between the outer mounting features.

Labels identify the C-Mount, Fiber Mount, Objective (sold separately), and various mounting points. Dimensions are provided in millimeters.

[illegible]



Mitutoyo Video Microscope Unit (VMU) and Mitutoyo Turret						
Wavelength Range:	VIS-NIR		NUV-VIS-NIR Nd:YAG 355/532/1064nm	VIS-NIR-SWIR Widefield Hi-Res	VIS Widefield BD	
Type:	Brightfield		Brightfield	Brightfield	Brightfield/Darkfield	
Orientation:	Vertical	Horizontal	Vertical	Vertical	Vertical	Horizontal
Model:	378-505	378-506	378-507	378-519	378-517	378-518
Tube Lens Magnification:	1X		1X	1X	1X	
Camera Mount:	C-Mount		C-Mount	F-Mount or C-Mount w/included adapter	F-Mount or C-Mount w/included adapter	
Objective Mount:	M26 x 36 TPI		M26 x 36 TPI	M26 x 36 TPI	M40 x 36 TPI	
Max. Sensor Format:	2/3"		2/3"	APS-C	APS-C	
Weight:	570g	590g	980g	1400g	2150g	
Stock Number:	#86-799	#89-621	#89-622	#23-338	#18-653	
Manual Turret (Four Objective Mounts):	#86-589		#86-589	#18-654	#18-655	
Compatible Objectives:	M Plan Apo/HR/SL and G Plan Apo		M Plan Apo/HR/SL and M Plan NIR/NUV	M Plan Apo/HR/SL G Plan Apo M Plan Apo NIR	BD Plan Apo	
VMU-L Laser Mount to C-Mount Adapter:	N/A		#37-044	N/A	N/A	