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VIS Horizontal Mitutoyo Widefield Video Microscope Unit, Brightfield/Darkfield

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#18-653 + Objective

Stock **#18-653** [CONTACT US](#)

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1

+

S\$21,924^{.00}

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General	
378-518	Model Number:
VS	Range:
Horizontal Mount, Brightfield/Darkfield, Widefield, inverted image	Type:
Mitutoyo	Manufacturer:

Compatible Objectives:	
BD Plan Apo	
Note:	
C-Mount adapter for the camera port included	
Physical & Mechanical Properties	
Weight (g):	
2150	
Optical Properties	
Magnification:	
1X	
Wavelength Range (nm):	
436 - 656	
Sensor	
Maximum Sensor Format:	
APS-C	
Threading & Mounting	
Mount:	
F-Mount or C-Mount w/ included adapter	
Mounting Threads:	
Objective Mounts: M40 x 36 TPI	
Regulatory Compliance	
RoHS 2015:	
Exempt	
Certificate of Conformance:	
View	
REACH 241:	
Contains SVHC(s)	

Product Details

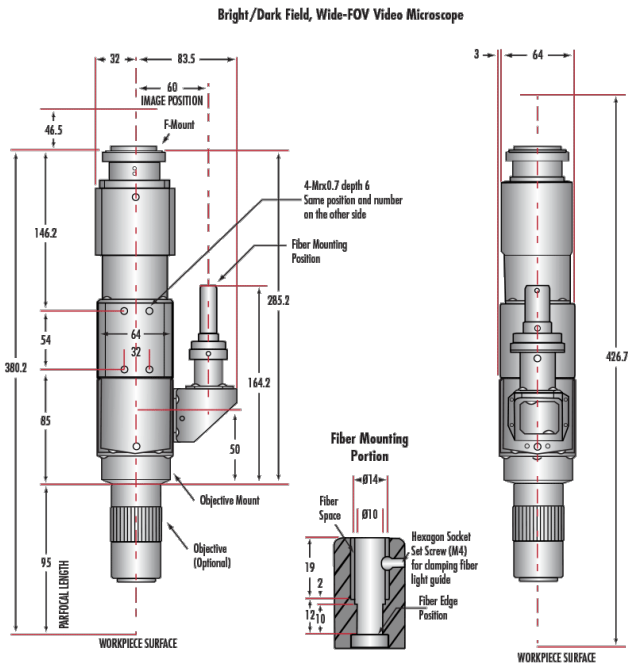
- Designed for M26 x 36 TPI or M40 x 36 TPI [Infinity Corrected Objectives](#)
- Maximum Sensor Size up to 2/3" or APS-C
- Vertical and Horizontal Orientations, Brightfield and Darkfield Configurations Available
- In-Line Fiber Illumination Port Compatible with 8mm or 1/4" (0.312") Diameter Ferrules

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 Mitutoyo 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. Mitutoyo 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



Technical drawing of the C-Mount and Fiber Mount camera modules. The drawing shows two views: a side view and a front view.

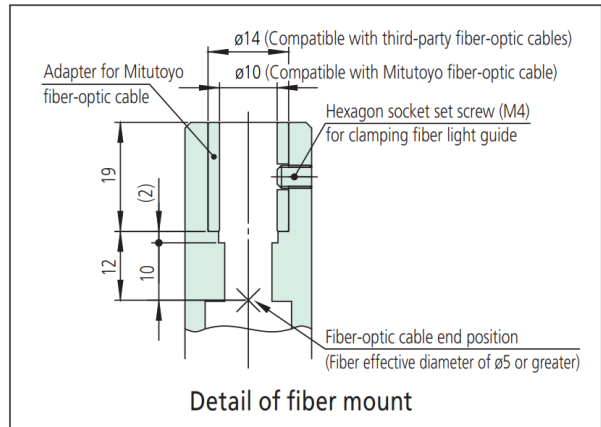
Side View Dimensions:

- C-Mount:**
 - Thread: M4 x 0.7 (x6)
 - Overall Height: 113.5
 - Mounting Flange Thickness: 89.5
 - Mounting Flange Diameter: $\varnothing 35$
 - Mounting Flange Width: 76
 - Mounting Flange Depth: 95
 - Mounting Flange Total Height: 208.5
 - Mounting Flange Width: 63
 - Mounting Flange Depth: 59.5
 - Mounting Flange Total Height: 19
 - Mounting Flange Width: 50
 - Mounting Flange Depth: 27
 - Mounting Flange Total Height: 43.5
 - Mounting Flange Width: 70.5
 - Mounting Flange Depth: 106
 - Mounting Flange Total Height: 84.3
- Fiber Mount:**
 - Overall Height: 47

Front View Dimensions:

- Objective (sold separately):**
 - Overall Diameter: $\varnothing 43$

Units: mm

[illegible][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-Mbunt		C-Mbunt	F-Mbunt or C-Mbunt w/included adapter	F-Mbunt or C-Mbunt w/included adapter	
Objective Mount:	M26 x36 TPI		M26 x36 TPI	M26 x36 TPI	M40 x36 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:	MPlan Apo/HR/SL and G Plan Apo		MPlan Apo/HR/SL and MPlan NIR/NUV	MPlan Apo/HR/SL G Plan Apo MPlan Apo NIR	BD Plan Apo	
VMU-L Laser Mount to C-Mount Adapter:	N/A		#37-044	N/A	N/A	