

## VM Zoom 40 Series 378

### Features

This advanced VIDEO MICROSCOPE Unit with large zoom ratio optical system can be installed in Analytical Probe Stations, YAG Laser Cutting equipment and all kinds of analysis instruments.

- High Quality Image:  
Combining New M Plan Apo HR10x objective for standard attachment.
- Easy to operate:  
Observation from the low magnification to the high magnification with zoom optical system of 40:1 ratio.  
Available to process the various workpiece by Laser Cutting through the optical system which corresponds to YAG Laser with 3 wavelength.



Example of system composition with VMZ40R-BL

For further information  
request Catalog No.  
US4191-378



### Specifications

Model No.	VMZ40M-B	VMZ40M-BL	VMZ40R	VMZ40R-L	VMZ40R-B	VMZ40R-BL	VMZ40R-L4	VMZ40R-BL4
Order No.	378-172	378-174	378-175A	378-177A	378-176A	378-178A	378-181A	378-182A
Radiation range	Near-infrared - Visible - Near-ultraviolet						Visible and Ultraviolet	
Zoom type	Manual			Power drive				
Image	Bright field/erect image							
Main unit mag.	0.25x - 10x (Zoom ratio: 40)							
Total mag.	100x - 4000x (when using 10x objective, 1/2 inch CCD camera and 15" monitor)							
Observation range (when using 10x objective)	1/2 inch CCD camera: 2.56x1.92mm - 0.064x0.048mm Eyepiece (WF10x/24): Ø3.2mm - Ø0.08mm							
Eyepiece lens	10x, 15x, 20x		—		10x, 15x, 20x		—	10x, 15x, 20x
Objective <sup>1</sup> Observation	M Plan Apo, G Plan Apo							
Laser-cutting <sup>2</sup>	—	M/LCD Plan NIR M/LCD Plan NUV	—	M/LCD Plan NIR M/LCD Plan NUV	—	M/LCD Plan NIR M/LCD Plan NUV	—	M Plan UV
Focus adjustment	With concentric coarse and fine focusing wheels (right and left) (50mm travel range, 0.1mm/rev. for fine adjustment, 3.8mm/rev. for coarse adjustment)							
Illumination system	Optional		Built-in remote controller with Auto-brightness control (2m light guide, 21V, 150W Halogen bulb (215390) bulb life 200H)					
Revolver	for BF lens (2 mounts) with centering mechanism		for BF lens (1 mount)		for BF lens (2 mounts) with centering mechanism			
TV adapter	with C-mount & centering mechanism						with green filter switch	
Camera	1/2 inch or smaller CCD camera (C-mount type)							
Power consumption	—		200W					
Mass (main unit)	7.5kg	8.0kg	7.0kg	7.5kg	8.0kg	8.5kg	7.5kg	8.5kg

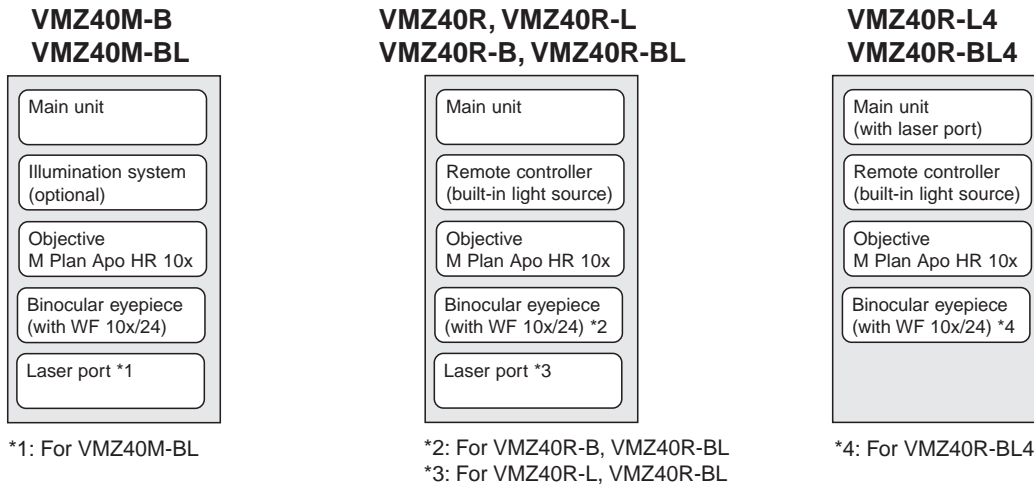
-1: When using an objective other than the one that is a standard accessory, there may be times when the observation image of the specimen is not bright enough, depending on what type of specimen. A magnification of 2x - 50x is recommended.

-2: Select model depending on the type of laser wavelength.

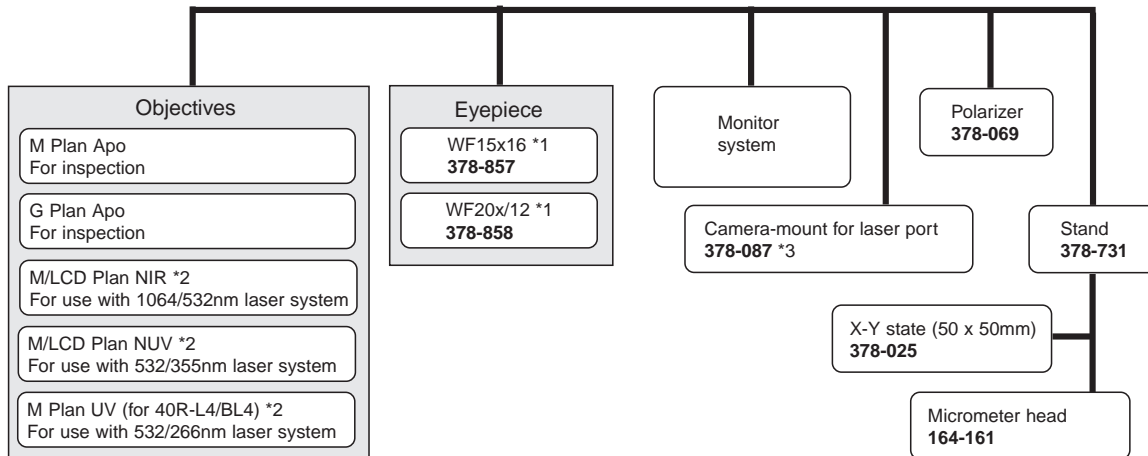
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### System Configuration

#### Standard Specifications



#### Option



\*1: Available with the binocular eyepiece

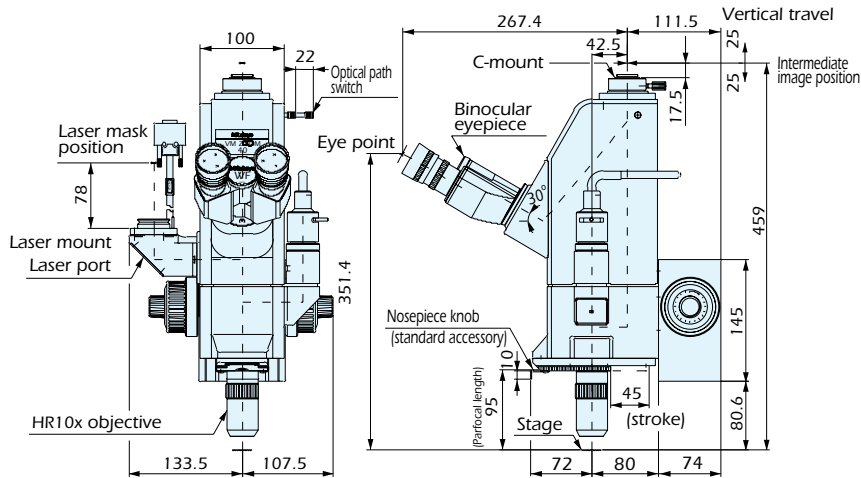
\*2: For VMZ40 □ - □ L □ type (YAG laser mountable). A 20x or 50x objective is recommended.

\*3: By mounting on the laser port it allows the inspector to confirm the current position of the specimen observed by the zoom lens. For VMZ40 □ - □ L □ type (YAG laser mountable). Use a 2/3" CCD camera or smaller (C-mount type).

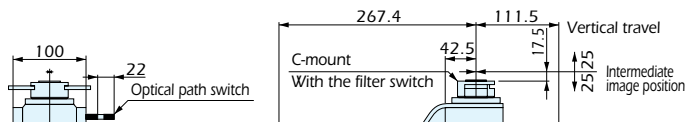
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### Dimensions

#### VMZ40R-BL : 378-178A

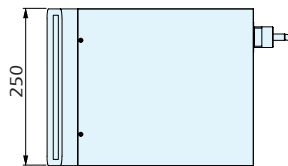


#### VMZ40R-BL4 : 378-182A (shown only the TV-mount section)\*

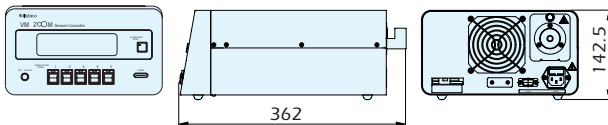
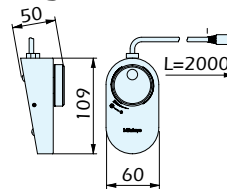


\*VMZ40R-BL4 has the same specifications as the VMZ40R-BL, except for the specifications of the TV-mount section.

#### Remote controller



#### Jog-shuttle dial



Weight: Approx. 7kg  
(Remote controller and jog-shuttle dial combined)