

### Fixed-Focal Lenses for Machine Vision Use: Full 6-Mega-Pixel Resolution for 1/1.7" Imagers In a Compact Size of $\phi 29\text{mm}$

- 1/1.7" 6mm F/2.4 (Model: M117FM06)
- 1/1.7" 8mm F/2.4 (Model: M117FM08)

NEW



Model: M117FM06

Model: M117FM08

For

**IMX178** 1/1.8" 6-Mega

2.4  $\mu\text{m}$

#### Main Features

##### > Unrivalled High Contrast and High Resolution in the Industry

- The new lenses are compatible with 1/1.7" 2.74 $\mu\text{m}$  pixel-pitch 6-mega (max) pixel imagers, while assuring the highest resolution and contrast in  $\phi 29\text{mm}$  machine-vision lenses.  
(\* $\phi 29\text{mm}$ : Excluding the objective-end of the lens)

##### > Industry-leading Low Distortion (TV Distortion)

- Tamron's state-of-the-art optics technology achieves drastic improvement in TV distortion compared with previous models. (\* M117FM06: -1.5%, M117FM08: -1.0%)

##### > High-Quality Imaging at Close-Shooting Distances

- The new lens provides high-quality imaging in commonly used close-up distances.



##### > Rugged Mechanical Design for Anti-Vibration and Shock

- Newly designed mechanism improves anti-vibration and shock performance compared with previous models. Even under a severe machine-vision setup with as much as max 10G vibrations and shocks, the new mechanism limits optical (image) deflection within 10 $\mu\text{m}$ .

\*Vibration frequency 10-60Hz (amplitude 0.75mm), vibration frequency 60-200Hz (acceleration 100m/s<sup>2</sup>), and number of cycles: 50 cycles.

##### > A Commonly used Setscrew is Included as a Standard Accessory

- A lock-screw used in previous models can be replaced with an embedding-type setscrew, reducing the diameter of the lens barrel for further compact installation.

Model		M117FM06	M117FM08
			
<b>Imager Size</b>		1/1.7"	
<b>Mount Type</b>		C	
<b>Focal Length</b>		6mm	8mm
<b>Aperture Range</b>		F/2.4 ~ F/16	
<b>Field of View Angle (Horizontal × Vertical)</b>	1/1.7"	65.0°×50.5°	52.2°×39.5°
	1/1.8"	64.2°×44.9°	50.9°×35.1°
<b>Focusing Range</b>		0.1m ~ ∞	
<b>Operation</b>	<b>Focus</b>	Manual w/lock	
	<b>Iris</b>	Manual w/lock	
<b>Filter Size</b>		M34 P=0.5	M30.5 P=0.5
<b>Wave Length</b>		Visible Light	
<b>TV Distortion</b>		-1.5%	-1.0%
<b>Weight</b>		50g	48g
<b>Operating Temperature</b>		-20°C ~ +60°C	

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**Management on Quality and Environment :**

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