

Compact $\phi 29\text{mm}$ Machine-Vision Lenses Compatible with 2/3" Imagers and 8-Mega Pixel Resolution

- 2/3" 8mm F/2.4 (Model: MA23F08V) ■ 2/3" 12mm F/2.4 (Model: MA23F12V)
- 2/3" 16mm F/2.4 (Model: MA23F16V) ■ 2/3" 25mm F/2.4 (Model: MA23F25V)
- 2/3" 35mm F/2.4 (Model: MA23F35V) ■ 2/3" 50mm F/2.8 (Model: MA23F50V)

NEW



For

IMX536 2/3" 8-Mega

IMX546 2/3" 8-Mega

IMX566 2/3" 8-Mega

2.74 μm

Main Features

> High Resolution and Contrast Unrivaled in the Industry

- Compatible with 2/3" imagers, supporting 2.74 μm pixel-pitch and max 8-mega pixel resolution.
- Offer resolution and contrast outperforming other $\phi 29\text{mm}$ machine-vision lenses.

> Industry-Leading Low Distortion (TV Distortion)

- Significantly reduce TV distortion compared with previous models.
(* MA23F08V: -0.6%, MA23F12V: 0.4%, MA23F16V: -0.05%, MA23F25V: -0.01%, MA23F35V: 0.04%, MA23F50V: 0.05%)

> High-Quality Performance at Close-up distances

- A new comprehensive lens design assures high contrast and resolution at commonly used close-up distances.

> New Robust Mechanism for Anti-Vibration and Anti-Shock

- A newly designed mechanism improves anti-vibration and anti-shock performance compared with previous models, limiting the optical(image) deflection to less than 10 μm even for the severe impact of vibrations and shocks of max 10G of magnitude.




* [Compliant with IEC 60068-2-6/JIS C 60068-2-6]




Vibration frequency 10-60Hz (amplitude 0.75mm), vibration frequency 60-500Hz (acceleration 100m/S²)

> A Common-use Setscrew is Attached as a Standard Accessory

- A lock-screw provided with the models can be replaced with any embedding-type setscrew. This further reduces the overall diameter of the lens barrel for more compact installation.

■ Specifications

Model	MA23F08V		MA23F12V		MA23F16V	
						
Imager Size	2/3"					
Mount Type	C					
Focal Length	8mm		12mm		16mm	
Aperture Range	F/2.4 ~ F/16					
Field of View Angle (Horizontal x Vertical)	2/3" (1:1)	53.1°x53.1°		36.0°x36.0°		27.0°x27.0°
	2/3" (4:3)	58.9°x45.5°		40.2°x30.6°		30.2°x22.8°
Focusing Range	0.1m ~ ∞					
Operation	Focus		Manual w/Lock			
	Iris		Manual w/Lock			
Filter Size	M34 P=0.5mm			M27 P=0.5mm		
Wave Length	Visible Light					
TV Distortion	-0.6% *		0.4% *		-0.05% *	
Weight	84g		69g		59g	
Operating Temperature	-20°C ~ +60°C					

Model	MA23F25V		MA23F35V		MA23F50V	
						
Imager Size	2/3"					
Mount Type	C					
Focal Length	25mm		35mm		50mm	
Aperture Range	F/2.4 ~ F/16					
Field of View Angle (Horizontal x Vertical)	2/3" (1:1)	16.9°x16.9°		11.1°x11.1°		7.5°x7.5°
	2/3" (4:3)	18.9°x14.3°		12.5°x9.4°		8.4°x6.4°
Focusing Range	0.1m ~ ∞		0.2m ~ ∞		0.3m ~ ∞	
Operation	Focus		Manual w/Lock			
	Iris		Manual w/Lock			
Filter Size	M27 P=0.5mm					
Wave Length	Visible Light					
TV Distortion	-0.01% *		0.04% *		0.05% *	
Weight	55g		58g		74g	
Operating Temperature	-20°C ~ +60°C					

* Design Value

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Management on Quality and Environment :

Tamron is certified with international standards: ISO 9001 for quality and ISO 14001 for environmental management at its Head Office, domestic sales offices, China plant as well as production facilities in Aomori Factory, Japan, and is fully committed to striving for continued and sustainable improvement at all levels and facets of its business operations.

● Specifications subject to change without notice