# **TAMRON**

### IP/CCTV LENS NEWS from TAMRON

**NEW RELEASE** 

## **Fixed-Focal Lenses for Machine Vision Use: Full 5-Mega-Pixel** Resolution for 1/1.2" and 2/3" Imagers In a Compact Size of $\phi$ 29mm

- 1/1.2" 8mm F/2.4 (Model: M112FM08) 1/1.2" 12mm F/2.0 (Model: M112FM12)
- 1/1.2" 16mm F/2.0 (Model: M112FM16) 1/1.2" 25mm F/1.8 (Model: M112FM25)
- 1/1.2" 35mm F/2.1 (Model: M112FM35) 1/1.2" 50mm F/2.8 (Model: M112FM50)
- 1/1.2" 75mm F/3.5 (Model: M112FM75)

NEW



#### For

INX174 1/1.2 2-Mega

## For

5.86<sub>µm</sub> 3.45<sub>µm</sub>

#### Main Features

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

- O Compatible with both 5.86μm pixel-pitch 1/1.2" imagers and 3.45μm pixel-pitch 2/3" imagers Equivalent resolution of full 5-mega-pixels
- O Industry-leading resolution and contrast in φ29mm machine-vision lenses.
- First-class performance in all different focal lengths of the models.

### Advanced Coating Technology and State-of-the-Art Optical Design

O Both state-of-the-art optics and advanced coating technologies assure distinguished optical performance, particularly in contrast and resolution, and superb optical transmittance for crisp and clear images.

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

O Lenses assure high-quality imaging at close-shooting distances often used.

#### Other Features

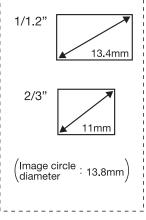
- O Critical performance in resolution is thoroughly examined from the center to the periphery of images, assuring high-contrast and high-resolution without unbalanced blurring.
- Rotational torque is increased to improve maneuverability for focusing and iris adjustment. Lock-screw positions are now selectable from four locations, assisting easier installation for users.
- An embedding-type setscrew is included as a standard accessory, making the lens barrel free of a screw-head to enable installation in a compact space.

## **TAMRON**

Model			M112FM08	M112FM12	M112FM16	M112FM25		
			17 M		a d 1 mm	0 d 1 mm		
Imager Size			1/1.2"					
Mount Type			С					
Focal Length			8mm	12mm	16mm	25mm		
Aperture Range			F/2.4 ~16	F/2.0 ~16		F/1.8 ~16		
Field of View Angle (H × V)	1/1.2"	(4:3)	70.3°×54.9°	49.2°×37.6°	37.4°×28.4°	24.1°×18.2°		
		(16:9)	75.3°×45.6°	53.2°×30.6°	40.5°×22.3°	26.2°×15.0°		
	2/3"	(4:3)	59.5°×45.8°	40.9°×31.1°	31.0°×23.4°	19.9°×15.0°		
		(16:9)	64.0°×37.8°	44.4°×25.5°	33.7°×19.2°	21.7°×12.3°		
Focusing Range			0.1m ~ ∞					
Operation Focus		Manual w/lock						
Iris			Manual w/lock					
Filter Size			M35.5 P=0.5mm M27 P=0.5mm					
Wave Length			Visible Light					

Model			M112FM35	M112FM50	M112FM75		
					1 4 mm		
Imager Size			1/1.2"				
Mount Type			С				
Focal Length			35mm	50mm	75mm		
Aperture Range			F/2.1 ~16	F/2.8 ~16	F/3.5 ~16		
Field of	1/1.2"	(4:3)	17.3°×13.1°	12.2°×9.2°	8.1°×6.1°		
View Angle (H × V)		(16:9)	18.8°×10.7°	13.2°×7.5°	8.9°×5.0°		
	2/3"	(4:3)	14.3°×10.7°	10.0°×7.5°	6.7°×5.0°		
		(16:9)	15.5°×8.8°	10.9°×6.16°	7.3°×4.1°		
Focusing Range			0.2m ~ ∞	0.3m ~ ∞	0.7m ~ ∞		
Operation Focus Iris			Manual w/lock				
			Manual w/lock				
Filter Size			M27 P=0.5mm				
Wave Length			Visible Light				

Imager Size Example



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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 headquarters, domestic sales offices, China plant as well as three production facilities in Aomori, Japan, and is fully committed to striving for continued and sustainable improvement at all levels and facets of its business operations.