

## 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" 6mm F/2.8 (Model: M112FM06)    ■ 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)



For

**IMX174** 1/1.2  
2-Mega

**IMX249** 1/1.2  
2-Mega

**IMX250** 2/3  
5-Mega




**IMX264** 2/3  
5-Mega

For

**5.86 $\mu$ m** **3.45 $\mu$ m**

### Main Features

- **Unrivalled High-Contrast and High-Resolution in the Industry**
  - Compatible with both 5.86 $\mu$ m pixel-pitch 1/1.2" imagers and 3.45 $\mu$ m pixel-pitch 2/3" imagers  
Equivalent resolution of full 5-mega-pixels
  - Industry-leading resolution and contrast in  $\phi$ 29mm machine-vision lenses. (\* $\phi$ 29mm: Excluding the objective-end of the lens)
  - First-class performance in all different focal lengths of the models.
- **Advanced Coating Technology and State-of-the-Art Optical Design**
  - 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**
  - Lenses assure high-quality imaging at close-shooting distances often used.
- **Other Features**
  - 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.

Model		M112FM06	M112FM08	M112FM12	M112FM16	
						
Imager Size		1/1.2"				
Mount Type		C				
Focal Length		6mm	8mm	12mm	16mm	
Aperture Range		F/2.8 ~ 16	F/2.4 ~ 16	F/2.0 ~ 16		
Field of View Angle (H x V)	1/1.2"	(4:3)	87.7°×70.1°	70.3°×54.9°	49.2°×37.6°	37.4°×28.4°
		(16:9)	93.1°×59.0°	75.3°×45.6°	53.2°×30.6°	40.5°×22.3°
	2/3"	(4:3)	75.5°×59.2°	59.5°×45.8°	40.9°×31.1°	31.0°×23.4°
		(16:9)	80.8°×49.3°	64.0°×37.8°	44.4°×25.5°	33.7°×19.2°
Focusing Range		0.1m ~ ∞				
Operation	Focus	Manual w/lock				
	Iris	Manual w/lock				
Filter Size		M58 P=0.75mm	M35.5 P=0.5mm	M27 P=0.5mm		
Wave Length		Visible Light				

Model		M112FM25	M112FM35	M112FM50	M112FM75	
						
Imager Size		1/1.2"				
Mount Type		C				
Focal Length		25mm	35mm	50mm	75mm	
Aperture Range		F/1.8 ~ 16	F/2.1 ~ 16	F/2.8 ~ 16	F/3.5 ~ 16	
Field of View Angle (H x V)	1/1.2"	(4:3)	24.1°×18.2°	17.3°×13.1°	12.2°×9.2°	8.1°×6.1°
		(16:9)	26.2°×15.0°	18.8°×10.7°	13.2°×7.5°	8.9°×5.0°
	2/3"	(4:3)	19.9°×15.0°	14.3°×10.7°	10.0°×7.5°	6.7°×5.0°
		(16:9)	21.7°×12.3°	15.5°×8.8°	10.9°×6.16°	7.3°×4.1°
Focusing Range		0.1m ~ ∞	0.2m ~ ∞	0.3m ~ ∞	0.7m ~ ∞	
Operation	Focus	Manual w/lock				
	Iris	Manual w/lock				
Filter Size		M27 P=0.5mm				
Wave Length		Visible Light				

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**Management on Quality and Environment :**

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