

A New Model of Industrial Lenses Covering a Wide Spectral Band from Visible-Light to SWIR Band

- 1" 12mm F/1.6 (Model: SMA11F12)
- 1" 16mm F/1.6 (Model: SMA11F16)
- 1" 25mm F/1.6 (Model: SMA11F25)

NEW



Model: SMA11F12

Model: SMA11F16

Model: SMA11F25

For

IMX990
IMX991

For

5 μ m

Main Features

> Significant Reduction of Focus-Shift in between the Visible-Light and the SWIR Bands

- Focus-shift occurring in between different bands is effectively reduced over the whole spectrum corresponding to the wavelength of 400 nm to 1700 nm.
- The new lens offers an optimum optical component for machine-vision cameras operating in the visible light band, industrial-use cameras operating in the SWIR band, and industrial-use cameras operating in both bands.

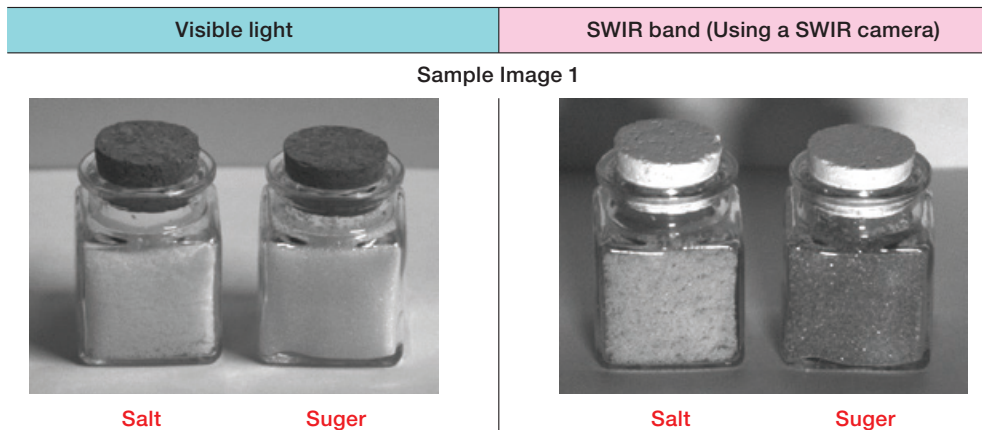
> Industry-Leading Spectrum Transmittance

- Tamron's new proprietary lens coating technology assures an approx. 80% constant spectrum transmittance over the whole spectrum from the visible-light to the SWIR* band.
- * Band corresponding to the wavelength of 400 – 1700nm




> Enhanced Imaging Performance at Close-Up Distances

- The image contrast is substantially enhanced at commonly used close-up distances.
 - The new lens is compatible with imagers with a pixel-pitch 5 μ m. The lens is also compatible with IMX990/IMX991*.
- * Products of Sony Semiconductor Solutions Corporation

■ Shooting image sample



■ Specifications

Model		SMA11F12	SMA11F16	SMA11F25
				
Imager Size		1"		
Mount Type		C		
Focal Length		12mm	16mm	25mm
Aperture Range		F/1.6 ~ F/22		
Field of View Angle (Horizontal × Vertical)	1"	57.9°×44.6°	44.1°×33.7°	29.1°×21.9°
	1/2"	30.2°×24.3°	22.7°×18.1°	14.7°×11.7°
Focusing Range		0.2m ~ ∞		
Operation	Focus	Manual w/lock		
	Iris	Manual w/lock		
Filter Size		M52 P=0.75mm	M49 P=0.75mm	M46 P=0.75mm
Wave Length		Visible Light~SWIR		
TV Distortion		-1.2% *	-1% *	-1% *
Weight		260g		
Operating Temperature		-20°C ~ +60°C		

* Design Value

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