

INDUSTRIAL MACHINE VISION CAMERA LENS



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MACHINE VISION LENSES

Perfecto lenses are used in machine vision applications across various industries, including automotive, logistics, and pharmaceuticals. They handle tasks such as defect detection, surface inspection, and shape and dimensional inspection.

In an image processing system—which includes an industrial camera, lighting, and software—the lens is the initial component that captures the image. Therefore, it is crucial for the lens to be well-matched with the camera to fully utilize the camera's capabilities.

Perfecto industrial lenses are specifically designed for harsh industrial environments. They ensure maximum durability and reliability during continuous operation, high temperatures, and vibrations. The lenses cover the resolution and image size requirements essential for industrial scenarios. The full series of Perfecto lenses offers high resolution, consistent image quality at both the center and edges, high brightness uniformity across the entire field of view, and low distortion throughout. They support operating temperatures from -20°C to 50°C and are built for strong stability and reliability, adapting to various complex industrial environments and inspection demands.

In industrial image processing / machine vision mainly industrial cameras and industrial lenses with C-mount thread are used.

C-mount lenses, in particular, are ruggedized to withstand strong vibrations or shocks. C-Mount is a standardized thread connection.

Perfecto Solution offers C-mount lenses for image formats from 1/8" to 2/3", which corresponds to Focal Length from 6mm to 75mm.



FA Lens Series (1/1.8" Sensor Size, 5 MP Resolution)

Product Model	Focal Length	F.NO	Image Sensor Size	Field of View Angle / FOV@WD200(H*V)			TV Distortion	MOD	Size	Filter Size	Camera Mount
				1/1.8"	1/2.5"	1/3"	1/1.8"				
PS-FA0401C	4 mm	2.0-C	1/1.8"	82.9°×66.5°	70.7°×56.7°	61.1°×47.5°	<0.5%	0.1m 、 0.037X	φ38.2×27.9	-	C-Mount
PS-FA0601C	6 mm	2.0-C	1/1.8"	59.6°×46°	48.7°×36.5°	41.9°×31.4°	<0.1%	0.1m 、 0.058X	φ28.6×23.5	M25.5 x P0.5	C-Mount
PS-FA0801C	8 mm	2.0-C	1/1.8"	46.8°×36°	38.2°×29.11°	32.2°×24.5°	<0.1%	0.1m 、 0.076X	φ26.8×25	M25.5 x P0.5	C-Mount
PS-FA1201C	12 mm	2.0-C	1/1.8"	33°×24.3°	27.2°×20.7°	22.9°×17.6°	<0.3%	0.1m 、 0.113X	-	M25.5 x P0.5	C-Mount
PS-FA1601C	16 mm	2.0-C	1/1.8"	24.7°×18.2°	20.6°×15.8°	59.20×44.40	<0.1%	0.1m 、 0.162X	-	M25.5 x P0.5	C-Mount
PS-FA2501C	25 mm	2.0-C	1/1.8"	13.6°×11.3°	13.4°×10.3°	11.4°×8.8°	<0.1%	0.1m 、 0.296X	φ27×23.5	M25.5 x P0.5	C-Mount
PS-FA3501C	35 mm	2.0-C	1/1.8"	11.8°×8.7°	9.4°×7.1°	7.9°×5.9°	<0.1%	0.2m 、 0.193X	φ28×33	M25.5 x P0.5	C-Mount
PS-FA5001C	50 mm	2.0-C	1/1.8"	8.2°×6.1°	6.6°×4.9°	5.5°×4.1°	<0.05%	0.3m 、 0.196X	-	M28.5 x P0.5	C-Mount
PS-FA7501C	75 mm	2.8-22	1/1.8"	5.4°×4.04°	4.4°×3.3°	3.66°×2.75°	<0.05%	0.1M	-	M30.5 x P0.5	C-Mount



FA Lens Series (2/3" Sensor Size, 5 MP Resolution)

Product Model	Focal Length	F.NO	Image Sensor Size	Field of View Angle / FOV@WD200(H*V)			TV Distortion	MOD	Filter Size	Camera Mount
				2/3"	1/2"	1/3"				
PS-FA0802D	8 mm	1.4-16	2/3"	215.38x182.05 / 56.3°x43.7°	164.10x123.08	121.44x91.08	<1 %	0.1m、0.075X	M37xP0.5	C-Mount
PS-FA1202D	12 mm	1.4-16	2/3"	39°x30.3°	29.48°x22.8°	-	< -0.8%	0.15M	M30.5x P0.5	C-Mount
PS-FA1602D	16 mm	1.4-16	2/3"	116.9x87.3 / 30.3°x23°	85.02x63.49 / 22.3°x16.8°	63.76x47.62 / 16.8°x12.6°	<0.1%	0.1m、0.145X	M30.5xP0.5	C-Mount
PS-FA2502D	25 mm	1.4-16	2/3"	70.7x52.7 / 20°x15°	51.42x38.33	38.56x28.75 / 11°x8.2°	<0.2%	0.2M	M30.5x P0.5	C-Mount
PS-FA3502D	35 mm	1.4-16	2/3"	54.7x40.9 / 13.9°x10.4°	39.78x29.75 / 10.1°x7.6°	29.84x22.31 / 7.6°x5.7°	< -0.8%	0.15m、0.213X	M37xP0.5	C-Mount

FA Lens Series (2/3" Sensor Size, 10 MP Resolution)

Product Model	Focal Length	F.NO	Image Sensor Size	Field of View Angle / FOV@WD200(H*V)			TV Distortion	MOD	Filter Size	Camera Mount
				2/3"	1/2"	1/3"				
PS-FA5002D	50 mm	1.4-C	2/3"	49.7x37.3 / 10.46°x7.86°	36.15x27.13 / 7.6°x5.27°	27.11x20.35 / 5.7°x4.3°	< -0.8%	0.3m、0.177X	M37xP0.5	C-Mount
PS-FA0810A	8 mm	2.8-16	2/3"	57.6°x44°	42.8°x32.7°	32.7°x24.7°	< 0.1%	0.1m、0.074X	M30.5x P0.5	C-Mount
PS-FA1210A	12 mm	2.8-16	2/3"	39.8°x30.4°	29.5°x22.3°	22.3°x16.8°	< 0.2%	0.1m、0.109X	M27x P0.5	C-Mount
PS-FA1610A	16 mm	2.8-16	2/3"	30.8°x23.1°	22.6°x17°	17.1°x12.8°	< 0.1%	0.1m、0.15X	M27x P0.5	C-Mount
PS-FA2510A	25 mm	2.8-16	2/3"	20°x15.3°	14.9°x11.4°	11.4°x8.8°	< 0.1%	0.1m、0.15X	M27xP0.5	C-Mount
PS-FA3510A	35 mm	2.8-16	2/3"	13.1°x9.9°	9.5°x7.2°	7.2°x5.5°	< 0.1%	0.1m、0.347X	M27xP0.5	C-Mount
PS-FA5010A	50 mm	2.8-16	2/3"	10.4°x8.8°	8.2°x7.2°	6.2°x5.4°	< -0.1%	0.3m、0.188X	M27xP0.5	C-Mount
PS-FA7510A	75 mm	2.8	2/3"	6.71°x5.04°	-	-	< 0.2%	0.4m	-	C-Mount

FA Lens Series (1.1" Sensor Size, 20 MP Resolution)

Product Model	Focal Length	F.NO	Image Sensor Size	Field of View Angle / FOV@WD200(H*V)			TV Distortion	MOD	Filter Size	Camera Mount
				1.1"	1"	2/3"	1"			
PS-FA0815A	8 mm	1.4-16	1.1"	354.3×265.7 / 84.8°×68°	321.62×293.38 / 77.1°×61.8°	221.12×182.67 / 57.6°×44.9°	< 5.5%	0.1m、0.064X	M58×P0.75	C-Mount
PS-FA1216A	12 mm	1.4-16	1.1"	251.8×189.3 / 57°×45°	228.6×171.4 / 54.8°×44.3°	157.1×117.9 / 38.9°×29.6°	< 1.5%	0.1m、0.103X	-	C-Mount
PS-FA1616A	16 mm	1.4-16	1.1"	186.90x136.90	167.99x125.93	111.11x93.92	<0.3%	0.1m、0.148X	M40.5 x P0.5	C-Mount
PS-FA2516A	25 mm	1.4-16	1.1"	108.69x79.62	66.15x49.58	43.75x36.98	<0.1%	0.1m、0.221X	M40.5 x P0.5	C-Mount
PS-FA3516A	35 mm	1.4-16	1.1"	73.59x53.91	97.69x73.23	64.62x54.62	<0.1%	0.2m、0.1805X	M40.5 x P0.5	C-Mount
PS-FA5016A	50 mm	1.6-16	1.1"	86.69x63.50	77.91x58.40	51.53x43.56	<0.1%	0.3m、0.179X	M40.5 x P0.5	C-Mount
PS-FA7516A	75 mm	1.8-16	1.1"	22.87x90.00	110.43x82.78	73.04x61.74	<0.05%	0.18M	M52 x P0.75	C-Mount

FA Lens Series (1.1" Sensor Size, 25 MP Resolution)

Product Model	Focal Length	Aperture	Image Sensor Size	Field of View FOV@WD200(H*V) / FOV Angle			TV distortion Distortion (TV)	closest distance MOD	filter threaded Filter size	Camera Mount
				1.1"	1"	2/3"	1"			
PS-FA1225A	12 mm	2.8-22	1.1"	249.6×182.9 / 60.66°×46.5°	50°×50°	38.6°×33°	< 0.3%	0.1m 、 0.105 5X	M46× P0.75	C-Mount
PS-FA1625A	16 mm	2.8-16	1.1"	192.4×144.3 / 45.8°×35.3°	42.1°×32.2°	29.7°×22.5°	< 0.15%	0.1m 、 0.132 X	M43× P0.75	C-Mount
PS-FA2525A	25 mm	2.8-22	1.1"	115.1×86.5 / 31.6°×24.2°	28.8°×22.1°	20.4°×15.6°	<0.1%	0.1m 、 0.24 X	M30.5 ×P0.5	C-Mount
PS-FA3525A	35 mm	2.8-16	1.1"	81.5×61 / 21.5°×15.9°	19.6°×14.7°	13.5°×10.2°	< 0.15%	0.15 m、 0.231 3X	M43× P0.75	C-Mount
PS-FA5025A	50 mm	2.8-16	1.1"	69.2×51.9 / 16.1°×12.9°	14.6°×11.7°	11.6°×8.9°	<0.1%	0.3m 、 0.185 X	M40.5 ×P0.5	C-Mount

iRAYPLE Lenses

Product Model	Aperture	Focal Length	Image Sensor Size	Focus Range	Camera Mount
MH0628SP	F2.8 - 16	6 mm	9.4 mm (1/1.8")	0.08 m to infinite	C-Mount
MH0420S	F2.0 - C	4 mm	9 mm (1/1.8")	0.1 m to infinite	C-Mount
MH7528S	F2.8 - 22	75 mm	9 mm (1/1.8")	0.5 m to infinite	C-Mount
MH1620M	F2.0 - F16	16 mm	11.4 mm (2/3")	0.2 m to infinite	C-Mount
MHR2520M	F2.0 - F16	25 mm	11.4 mm (2/3")	0.18 m to infinite	C-Mount
MH5028M	F2.8 - F32	8 mm	11.4 mm (2/3")	0.4 m to infinite	C-Mount
MH1228X	F2.8 - F16	12 mm	17.6 mm (1.1")	0.1 m to infinite	C-Mount

Product Model	Aperture	Focal Length	Image Sensor Size	Focus Range	Camera Mount
MH1228X	F2.8 - F16	12 mm	17.6 mm (1.1")	0.1 m to infinite	C-Mount
MH2528X	F2.8 - F16	25 mm	17.6 mm (1.1")	0.15 m to infinite	C-Mount
MH5028X	F2.8 - F16	50 mm	17.6 mm (1.1")	0.3 m to infinite	C-Mount
MH1628X	F2.8 - 16	16 mm	17.6 mm (1.1")	0.1 m to infinite	C-Mount
MH3528X	F2.8 - 16	35 mm	17.6 mm (1.1")	0.2 m to infinite	C-Mount
MT2528X	F2.8 - 16	25 mm	17.6 mm (1.1")	0.15 m to infinite	C-Mount
MT3528X	F2.8 - 16	35 mm	17.6 mm (1.1")	0.2 m to infinite	C-Mount

CONTACT DETAILS

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