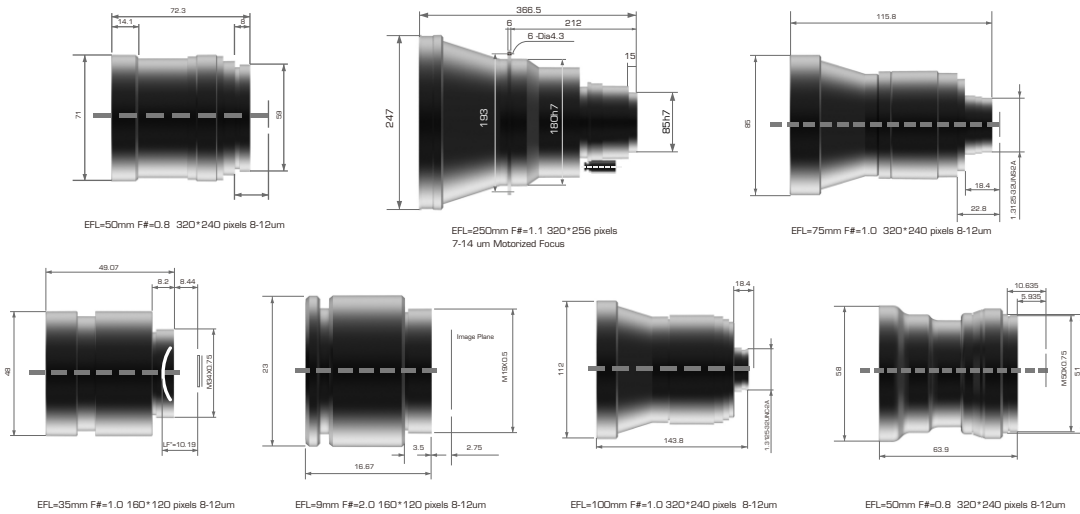


Off-the-shelf LWIR Lenses Specification Sheet



Opto-Mechanical Property	Specification						
Focal Length	9mm	18mm	35mm	50mm	75mm	100mm	250mm
F#	2.0	0.9	1.0	1.0	1.0	1.0	1.1
Wavelength	8 μm-12 μm	8 μm-12 μm	8 μm-12 μm	8 μm-12 μm	8 μm-14 μm	8 μm-12 μm	7 μm-14 μm
Image Diagonal	4.5mm	18mm	7mm	14mm	5mm	18mm	10.2mm
Average Transmission	>94%	>85%	>85%	>85%	>85%	>85%	>85%
Circular FOV	42.5°	53°	11.4°	15.94°	60.35°	10.3°	2.3°
Back Focus Distance	6.25mm	-	16.64mm	14.5mm	14.8mm	18.4mm	-
Back Working Distance	2.75mm	10.9mm	8.44mm	8mm	10mm	-	22.80
Dimension	Length 16.67mm, Φ 23mm	Length 33.63mm, Φ 41mm	Length 49.07mm, Φ 48mm	Length 79.65mm, Φ 70mm	Length 80mm, Φ86mm	Length 143.8mm, Φ 112mm	Length 366.5mm, Φ 247mm
Focus Type	Manual Focus	Manual Focus	Manual Focus	Motorized Focus	Manual Focus	Manual Focus	Motorized Focus
Focus Range	-	1m to infinity	1m to infinity	-	1m to infinity	5m to infinity	-
Mount Type	M19*0.5	M41*0.75	M34*0.75	M55*1	M34*0.75	M55*0.75	-
Detector	160*120 pixels, 35 μm	320*240 pixels, 45 μm	160*120 pixels, 35 μm	320*240 pixels, 45 μm	160*120 pixels, 35 μm	320*240 pixels, 45 μm	320*256 pixels, 25 μm
Environmental							
Operating Temperature	- 20°C to +60°C						
Storage Temperature	- 40°C to +80°C						
External Coating	AR	AR	DLC	DLC	DLC	AR	DLC
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours						
Opto-Mechanical Property	Specification						
Focal Length	4mm	5mm	6mm	50mm	75mm	100mm	400mm
F#	1.0	1.0	1.0	1.0	1.0	1.0	1.8
Wavelength	8 μm-14 μm	8 μm-14 μm	8 μm-14 μm	8 μm-12 μm	8 μm-12 μm	8 μm-12 μm	7 μm-14 μm
Image Diagonal	10mm	10mm	10mm	12mm	12mm	15.2mm	10.2mm
Average Transmission	>85%	>85%	>90%	>85%	>85%	>85%	>85%
Circular FOV	-	90°	90°	13.69°	9.15°	8.69°	1.46°
Back Focus Distance	-	12.9mm	-	14.5mm	19.76mm	22.8mm	22.8mm
Back Working Distance	7.5mm	-	8.3mm	8mm	-	-	11.1mm
Dimension	Length 46.41mm, Φ 44mm	Length 29.5mm, Φ 30mm	Length 29.3mm, Φ 34mm	Length 79.65mm, Φ 70mm	Length 103.88mm, Φ 100mm	Length 134.3mm, Φ 112mm	Length 428mm, Φ 240mm
Focus Type	Manual Focus	Manual Focus	Manual Focus	Motorized Focus	Manual Focus	Motorized Focus	Motorized Focus
Focus Range	1m to infinity	1m to infinity	1m to infinity	-	1m to infinity	-	-
Mount Type	M24*1	M24*1	M24*1	M45*1	M34*0.75	M59-12Teeth	-
Detector	320*240 pixels, 25 μm	320*240 pixels, 25 μm	320*240 pixels, 25 μm	320*240 pixels, 45 μm	160*120 pixels, 35 μm	320*240 pixels, 38 μm	320*256 pixels, 25 μm
Environmental							
Operating Temperature	- 20°C to +60°C						
Storage Temperature	- 40°C to +80°C						
External Coating	DLC	DLC	DLC	DLC	DLC	AR	DLC
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours						

Contact us today for further information!

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