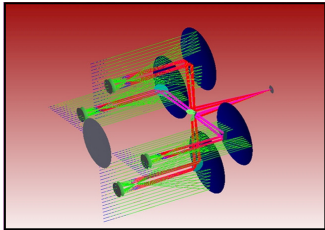


About Wavelength Opto-Electronic



Design ...

We offer customized design for your unique applications and systems. We have a very competitive optical designers with an accumulated experience of more than 10 years of working experience in the optics industry and they are ready to accept your most challenging requirements.

Precision Machining...

Our in-house technician and machinist has accumulated over 30 years machining experience. In the production we use the most common IR material such as Germanium, Silicon, Zinc Selenide, Zinc Sulfide, Calcium Fluoride and Gasir.

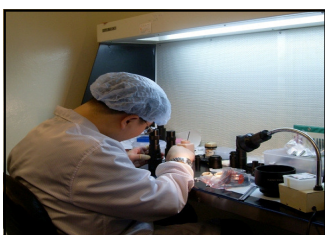
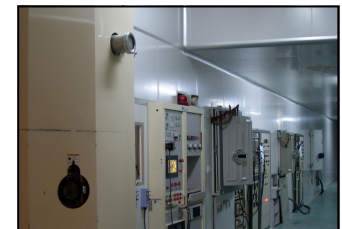


Diamond Turning ...

We have expanded our capability into diamond turning which allows us to offer cost effective and high quality optics. We provide aspheric and diffractive lens for most common IR material.

Optical Coating ...

We provide high transmission AR coating and DLC coating suitable for harsh environment.



Assembly ...

Precision assembly is done both in Singapore and Nanjing factory.

Quality Assurance ...

Wavelength Technology Singapore and Nanjing factory is ISO 9001: 2008 certified.



Infra™ Lenses Index

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P/N: Infra-SW232.0-30

Opto-Mechanic Property	Value
Focal Length	23mm
F#	2.0
Wavelength	900nm—2300nm
Image Diagonal	12.3mm
Average Transmission	>85%
Circular FOV	30°
Back Focus Distance	12.53mm
Back Working Distance	8mm
Dimensions	Length 41.63mm, Ø34mm
Focus Type	Manual Focus
Focus Range	0.5m to infinity
Mount Type	C-mount
Detector	320*256, 30µm
Weight	100g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-SW352.4-30

Opto-Mechanic Property	Value
Focal Length	35mm
F#	2.4
Wavelength	900nm—2300nm
Image Diagonal	12.3mm
Average Transmission	>85%
Circular FOV	20°
Back Focus Distance	17.5mm
Back Working Distance	8.45mm
Dimensions	Length48mm, Φ32mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	C-mount
Detector	320*256, 30μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-SW502.0-30

Opto-Mechanic Property	Value
Focal Length	50mm
F#	2.0
Wavelength	900nm—2300nm
Image Diagonal	12.3mm
Average Transmission	>85%
Circular FOV	14°
Back Focus Distance	17.5mm
Back Working Distance	11mm
Dimensions	Length 51mm, Φ 32mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	C-mount
Detector	320*256, 30 μ m
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-MW252.0-15

Opto-Mechanic Property	Value
Focal Length	25mm
F#	2.0
Wavelength	3μm—5μm
Image Diagonal	12.3mm
Average Transmission	>85%
Circular FOV	27.64°
Back Focus Distance	29.6mm
Back Working Distance	24.34mm
Dimensions	Length42mm, Φ42mm
Focus Type	Manual Focus
Focus Range	0.5m to infinity
Mount Type	M32*1
Detector	640*512, 15μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-MW502.0-15

Opto-Mechanic Property	Value
Focal Length	50mm
F#	2.0
Wavelength	3 μ m—5 μ m
Image Diagonal	12.3mm
Average Transmission	>85%
Circular FOV	14°
Back Focus Distance	28.4mm
Back Working Distance	22.4mm
Dimensions	Length 44mm, Φ 56mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M36*1
Detector	640*512, 15 μ m
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-MW1002.0-15

Opto-Mechanic Property	Value
Focal Length	100mm
F#	2.0
Wavelength	3μm—5μm
Image Diagonal	12.3mm
Average Transmission	>85%
Circular FOV	7°
Back Focus Distance	30.64mm
Back Working Distance	24.84mm
Dimensions	Length95.3mm, Φ108mm
Focus Type	Manual Focus
Focus Range	5m to infinity
Mount Type	M50*1
Detector	640*512, 15μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW7.51.0-17

Opto-Mechanic Property	Value
Focal Length	7.5mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	84.4%
Back Focus Distance	16mm
Back Working Distance	11mm
Dimensions	Length 41.01mm, Φ47mm
Focus Type	Manual Focus
Focus Range	0.5m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 384*288, 25μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW81.0-17

Opto-Mechanic Property	Value
Focal Length	8mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	90%
Circular FOV	80°
Back Focus Distance	12.9mm
Back Working Distance	7.9mm
Dimensions	Length31mm, Φ35mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M24*1
Detector	640*480, 17μm 384*288, 25μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW101.0-17

Opto-Mechanic Property	Value
Focal Length	10mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	64°
Back Focus Distance	16mm
Back Working Distance	11mm
Dimensions	Length46.97mm, Φ49mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 384*288, 25μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW10.81.0-17

Opto-Mechanic Property	Value
Focal Length	10.8mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	64°
Back Focus Distance	11mm
Back Working Distance	6mm
Dimensions	Length 53~56mm, Φ45mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M31*0.75
Detector	640*480, 17μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW111.0-17

Opto-Mechanic Property	Value
Focal Length	11mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	63.4°
Back Focus Distance	16mm
Back Working Distance	11mm
Dimensions	Length46.67mm, Ø52mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 384*288, 25μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW131.2-17

Opto-Mechanic Property	Value
Focal Length	13mm
F#	1.2
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	55.2°
Back Focus Distance	14.2mm
Back Working Distance	9.7mm
Dimensions	Length28.33mm, Φ38mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M34*0.5
Detector	640*480, 17μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW141.0-17

Opto-Mechanic Property	Value
Focal Length	14mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	51.8°
Back Focus Distance	16mm
Back Working Distance	11mm
Dimensions	Length30.96mm, Φ38mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 384*288, 25μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW151.0-17

Opto-Mechanic Property	Value
Focal Length	15mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	48.8°
Back Focus Distance	16mm
Back Working Distance	11mm
Dimensions	Length42.79mm, Φ50mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 384*288, 25μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW181.0-17

Opto-Mechanic Property	Value
Focal Length	18mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	30°
Back Focus Distance	22.74mm
Back Working Distance	17.05mm
Dimensions	Length 50mm, Φ47mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M30*0.5
Detector	640*480, 17μm
Weight	150g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW191.0-17

Opto-Mechanic Property	Value
Focal Length	19mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	85%
Circular FOV	39°
Back Focus Distance	16mm
Back Working Distance	11mm
Dimensions	Length 23.5mm, Φ38mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 384*288, 25μm
Weight	60g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW201.0-17

Opto-Mechanic Property	Value
Focal Length	20mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	37.5°
Back Focus Distance	13.3mm
Back Working Distance	8.3mm
Dimensions	Length 36mm, Φ40mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm
Weight	100g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW221.2-17

Opto-Mechanic Property	Value
Focal Length	22mm
F#	1.2
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	34°
Back Focus Distance	14.37mm
Back Working Distance	8mm
Dimensions	Length43.5mm, Φ40mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M38*0.75
Detector	640*480, 17μm
Weight	
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW251.0-17

Opto-Mechanic Property	Value
Focal Length	25mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	30°
Back Focus Distance	13mm
Back Working Distance	8mm
Dimensions	Length 54.08mm, Ø50mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M30*0.75
Detector	640*480, 17μm
Weight	150g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW251.2-17

Opto-Mechanic Property	Value
Focal Length	25mm
F#	1.2
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	30°
Back Focus Distance	13.9mm
Back Working Distance	8.6mm
Dimensions	Length 47.5mm, Φ42mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M30*0.75
Detector	640*480, 17μm
Weight	100g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW251.4-17

Opto-Mechanic Property	Value
Focal Length	25mm
F#	1.4
Wavelength	8 μ m—14 μ m
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	30°
Back Focus Distance	13.3mm
Back Working Distance	8.3mm
Dimensions	Length41mm, Φ 38mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M34*0.75
Detector	640*480, 17 μ m
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW261.2-17

Opto-Mechanic Property	Value
Focal Length	26mm
F#	1.2
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	29.3°
Back Focus Distance	14.2mm
Back Working Distance	9.7mm
Dimensions	Length38.73mm, Φ38mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M34*0.5
Detector	640*480, 17μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW301.0-17

Opto-Mechanic Property	Value
Focal Length	30mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	25.5°
Back Focus Distance	13.3mm
Back Working Distance	8.3mm
Dimensions	Length 56.33mm, Ø54mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 320*240, 25μm
Weight	185g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW301.4-17

Opto-Mechanic Property	Value
Focal Length	30mm
F#	1.4
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	25.5°
Back Focus Distance	19.1mm
Back Working Distance	8.3mm
Dimensions	Length33.6mm, Φ31mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm
Weight	100g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW351.0-17

Opto-Mechanic Property	Value
Focal Length	35mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	21.9°
Back Focus Distance	16mm
Back Working Distance	11mm
Dimensions	Length56.6mm, Φ63mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 384*288, 25μm
Weight	
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW401.4-17

Opto-Mechanic Property	Value
Focal Length	40mm
F#	1.4
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	19°
Back Focus Distance	34.78mm
Back Working Distance	28.78mm
Dimensions	Length30mm, Φ48mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M42*0.75
Detector	640*480, 17μm
Weight	95g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW501.0-17

Opto-Mechanic Property	Value
Focal Length	50mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	15.5°
Back Focus Distance	13.3mm
Back Working Distance	8.3mm
Dimensions	Length 77.1mm, Φ66mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 320*240, 25μm
Weight	300g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW501.0-17M

Opto-Mechanic Property	Value
Focal Length	50mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	90%
Circular FOV	15°
Back Focus Distance	14mm
Back Working Distance	8mm
Dimensions	Length79.65mm, Φ70mm
Focus Type	Motorized Focus
Focus Range	-
Mount Type	M45*1
Detector	640*480, 17μm
Weight	350g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW501.2-17

Opto-Mechanic Property	Value
Focal Length	50mm
F#	1.2
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	15.5°
Back Focus Distance	13.3mm
Back Working Distance	8.3mm
Dimensions	Length 77.7mm, Φ58mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm
Weight	290g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW501.4-17

Opto-Mechanic Property	Value
Focal Length	50mm
F#	1.4
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	15.5°
Back Focus Distance	13mm
Back Working Distance	8mm
Dimensions	Length 55.6mm, Φ47mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 320*240, 25μm
Weight	110g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW501.4-17F

Opto-Mechanic Property	Value
Focal Length	50mm
F#	1.4
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	90%
Circular FOV	15.5°
Back Focus Distance	13.3mm
Back Working Distance	8.3mm
Dimensions	Length 57.3mm, Φ47mm
Focus Type	Fixed Focus
Focus Range	1m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm
Sealing (Front Lens)	IP67
Weight	100g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW601.0-17

Opto-Mechanic Property	Value
Focal Length	60mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	90%
Circular FOV	12.9°
Back Focus Distance	16mm
Back Working Distance	11mm
Dimensions	Length 71.65mm, Φ92mm
Focus Type	Manual Focus
Focus Range	5m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 384*288, 25μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW602.0-17

Opto-Mechanic Property	Value
Focal Length	60mm
F#	2.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	90%
Circular FOV	12.9°
Back Focus Distance	27.12mm
Back Working Distance	21.12mm
Dimensions	Length33mm, Φ44mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW701.0-17

Opto-Mechanic Property	Value
Focal Length	70mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	11°
Back Focus Distance	13.3mm
Back Working Distance	8.3mm
Dimensions	Length93.7mm, Φ84mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 320*240, 25μm
Weight	500g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW701.4-17

Opto-Mechanic Property	Value
Focal Length	70mm
F#	1.4
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	11°
Back Focus Distance	22.8mm
Back Working Distance	12.3mm
Dimensions	Length 91mm, Φ62mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M59-12Teeth/inch
Detector	640*480, 17μm
Weight	500g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW751.0-17

Opto-Mechanic Property	Value
Focal Length	75mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	90%
Circular FOV	10.3°
Back Focus Distance	20.26mm
Back Working Distance	14.85mm
Dimensions	Length 89.92mm, Ø95mm
Focus Type	Manual Focus
Focus Range	3m to infinity
Mount Type	M55*1
Detector	640*480, 17μm 384*288, 25μm
Weight	
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW751.0-17M

Opto-Mechanic Property	Value
Focal Length	75mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	10.3°
Back Focus Distance	16.8mm
Back Working Distance	12.3mm
Dimensions	Length 104.9mm, Φ100mm
Focus Type	Motorized Focus
Focus Range	2m to infinity
Mount Type	Flange
Detector	640*480, 17μm
Weight	700g
Motor Voltage	12V DC
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW751.1-17M

Opto-Mechanic Property	Value
Focal Length	75mm
F#	1.1
Wavelength	8μm—12μm
Image Diagonal	13.6mm
Average Transmission	94%
Circular FOV	10.3°
Back Focus Distance	22.8mm
Back Working Distance	-
Dimensions	Length69.8mm, Φ82mm
Focus Type	Motorized Focus
Focus Range	1m to infinity
Mount Type	Flange
Detector	640*480, 17μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW751.2-17

Opto-Mechanic Property	Value
Focal Length	75mm
F#	1.2
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	10.3°
Back Focus Distance	14.5mm
Back Working Distance	9.5mm
Dimensions	Length102.4mm, Φ77mm
Focus Type	Manual Focus
Focus Range	2m to infinity
Mount Type	M45*1
Detector	640*480, 17μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW751.3-17

Opto-Mechanic Property	Value
Focal Length	75mm
F#	1.3
Wavelength	8μm—12μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	10.3°
Back Focus Distance	22.8mm
Back Working Distance	9.81mm
Dimensions	Length89.6mm, Φ73mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M59*12Teeth/inch
Detector	640*480, 17μm
Weight	-
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW751.4-17

Opto-Mechanic Property	Value
Focal Length	75mm
F#	1.4
Wavelength	8μm—12μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	10.3°
Back Focus Distance	23.6mm
Back Working Distance	8.5mm
Dimensions	Length94.75mm, Ø66mm
Focus Type	Manual Focus
Focus Range	1m to infinity
Mount Type	M59*12Teeth/inch
Detector	640*480, 17μm
Weight	
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW1001.0-17

Opto-Mechanic Property	Value
Focal Length	100mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	90%
Circular FOV	7.8°
Back Focus Distance	16mm
Back Working Distance	11mm
Dimensions	Length105.72mm, Φ136mm
Focus Type	Manual Focus
Focus Range	5m to infinity
Mount Type	M34*0.75
Detector	640*480, 17μm 384*288, 25μm
Weight	
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW1001.0-17M

Opto-Mechanic Property	Value
Focal Length	100mm
F#	1.0
Wavelength	8 μ m—14 μ m
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	7.8°
Back Focus Distance	31.1mm
Back Working Distance	18.5mm
Dimensions	Length 119.2mm, Φ 112mm
Focus Type	Motorized Focus
Focus Range	8m to infinity
Mount Type	M65*1
Detector	640*480, 17 μ m
Weight	1100g
Motor Voltage	12V DC
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW1001.2-17

Opto-Mechanic Property	Value
Focal Length	100mm
F#	1.2
Wavelength	8μm—12μm
Image Diagonal	13.6mm
Average Transmission	90%
Circular FOV	7.8°
Back Focus Distance	14.5mm
Back Working Distance	9.5mm
Dimensions	Length 118mm, Φ92.4mm
Focus Type	Manual Focus
Focus Range	5m to infinity
Mount Type	M45*1
Detector	640*480, 17μm
Sealing (Front lens)	IP67
Weight	600g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW1001.4-17

Opto-Mechanic Property	Value
Focal Length	100mm
F#	1.4
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	90%
Circular FOV	7.8°
Back Focus Distance	20.08mm
Back Working Distance	15.04mm
Dimensions	Length121.39mm, Φ120mm
Focus Type	Manual Focus
Focus Range	8m to infinity
Mount Type	M50*1
Detector	640*480, 17μm
Weight	
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW1001.5-17

Opto-Mechanic Property	Value
Focal Length	100mm
F#	1.5
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	90%
Circular FOV	7.8°
Back Focus Distance	35.41mm
Back Working Distance	24.41mm
Dimensions	Length76.62mm, Φ90mm
Focus Type	Manual Focus
Focus Range	8m to infinity
Mount Type	M65*1
Detector	640*480, 17μm
Weight	
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW1501.0-17

Opto-Mechanic Property	Value
Focal Length	150mm
F#	1.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	5.19°
Back Focus Distance	23.18mm
Back Working Distance	15.76mm
Dimensions	Length207.41mm, Φ200mm
Focus Type	Manual Focus
Focus Range	10m to infinity
Mount Type	M66*1
Detector	640*480, 17μm
Weight	
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours



P/N: Infra-LW1501.4-17

Opto-Mechanic Property	Value
Focal Length	150mm
F#	1.4
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	5.19°
Back Focus Distance	22.8mm
Back Working Distance	8.5mm
Dimensions	Length184.7mm, Φ120mm
Focus Type	Manual Focus
Focus Range	10m to infinity
Mount Type	M59-12Teeth/inch
Detector	640*480, 17μm
Weight	1300g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

P/N: Infra-LW1502.0-17

Opto-Mechanic Property	Value
Focal Length	150mm
F#	2.0
Wavelength	8μm—14μm
Image Diagonal	13.6mm
Average Transmission	>85%
Circular FOV	5.19°
Back Focus Distance	22.8mm
Back Working Distance	8.5mm
Dimensions	Length184.7mm, Φ120mm
Focus Type	Manual Focus
Focus Range	10m to infinity
Mount Type	M59-12Teeth/inch
Detector	640*480, 17μm
Weight	1300g
Environmental	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +80°C
External Coating	AR/DLC coating available
Humidity	100%RH at 26°C and 74%RH at 35°C for 24 hours

IR lens Optical Design Request Form

Opto-Mechanic Property	Specification	Remarks
Primary Request		
Spectral Range		
Number of FOV's		Single FOV/ Dual FOV/Zoom
Focal Length		
Field of View		
F Number		
Back Focus Distance		Distance from the last lens surface to FPA
Focus Range		
Average Transmission		
Nominal Object Distance		If not specified, is infinity
Lenses Size		
Coating		DLC Coating Yes/No
Detector Type		Cool/Uncool
FPA Parameter		
Window Parameter		Material/Thickness
Operating Temperature		
Special Request for Cooled Detectors		
Cold Shield Diameter		Attached drawing for cool detector parameter if possible.
Height between Cold Shield and FPA		
Filter		Material/Thickness/Position/Spectral Range
Other Request		

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IR Dual Field Imaging Lens



IR Zoom Lens