

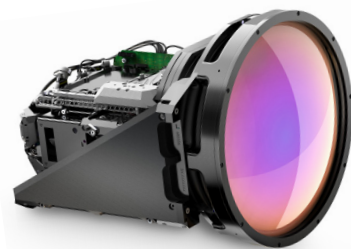
IR LONG RANGE ZOOM LENSES

THE COMPLETE COLLECTION



SuplR 80-1200mm f/5.5
> 26km detection range

* For 15µm pixel pitch



SuplR 50-1350mm f/5.5
> 26.5km detection range

* For 15µm pixel pitch



SuplR 60-1200mm f/4
> 28km detection range

* For 10µm pixel pitch



Your long distance needs, met.

Providing you with outstanding detection, recognition and identification (DRI) ranges, this extensive collection of long range zoom lenses is designed and built for a wide range of air, sea and commercial and defense applications, answering all your long distance needs.

Key features

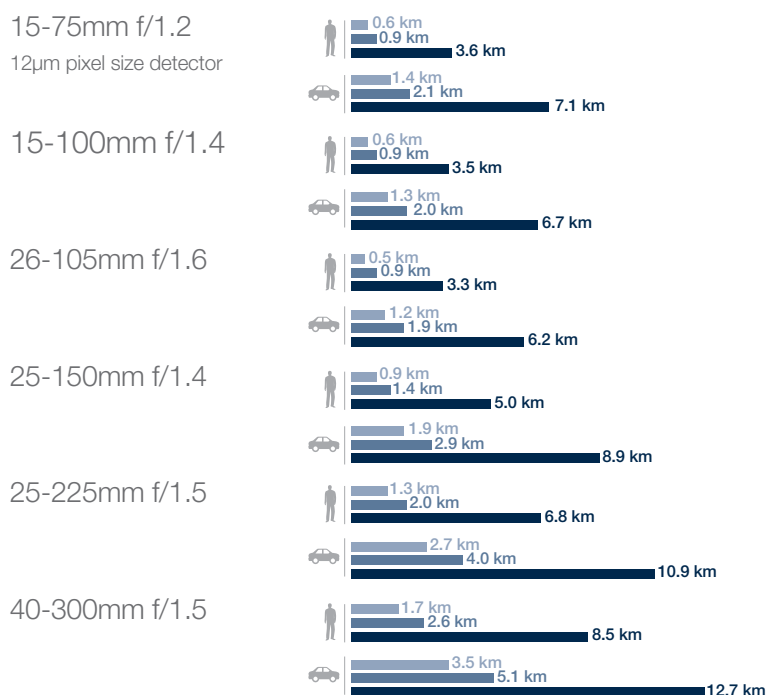
- Accurate thru-zoom boresight
- Continuous zoom, with fixed F# maintained through the full zoom range
- Ruggedized design assures operability in low temperatures and the toughest environments
- Folded optics technology
- Zoom up to X27
- Wide range of coatings available: Hard Carbon, High Durability, Low Reflection Hard Carbon
- Fast FOV change
- Compatible with major MWIR & LWIR detectors
- Compatible with 10µm pixel pitch HD format detectors
- Diffraction-limited optical design
- Pre-set, discrete optical zoom positions



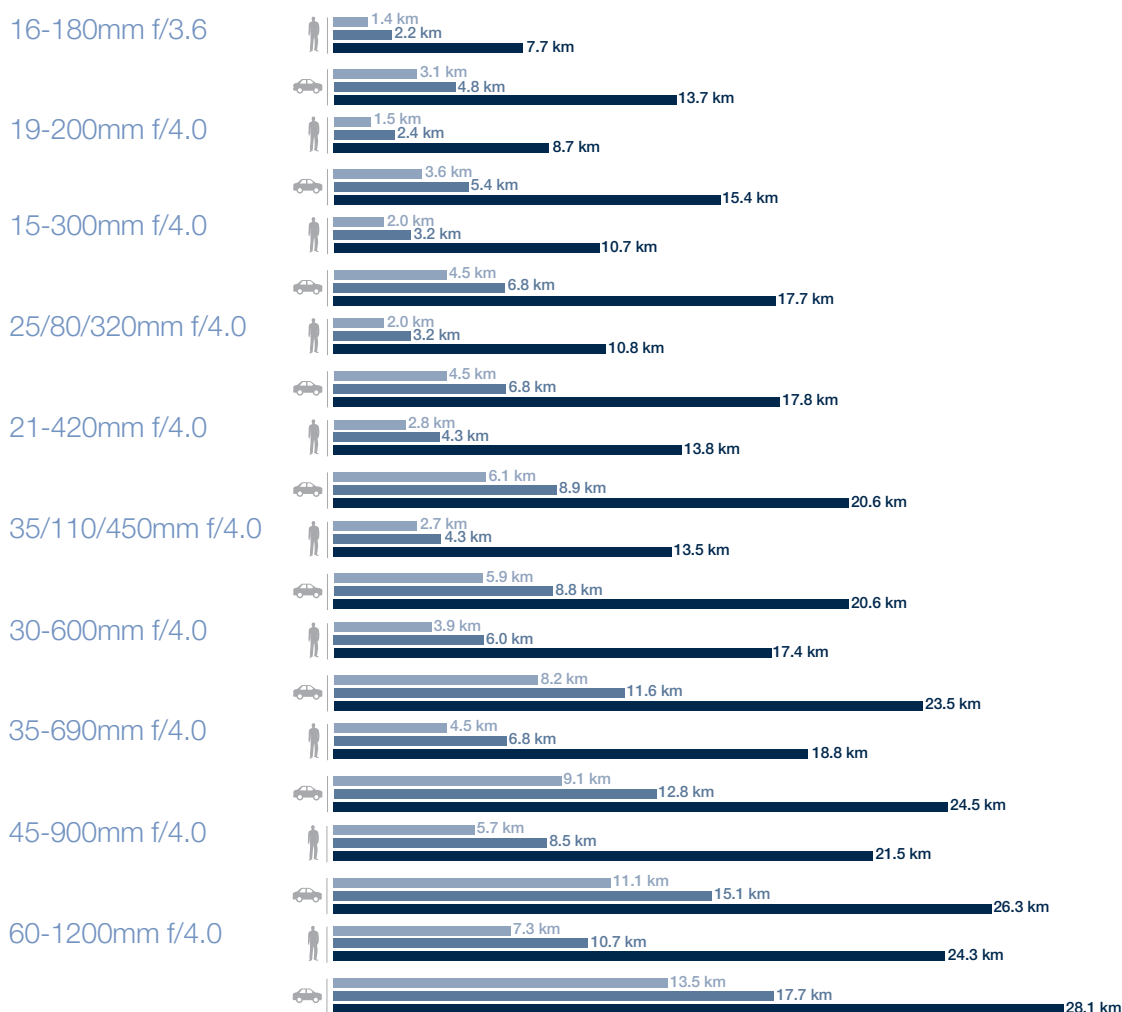
Image 1: IR thermal image taken with SupIR 28-850mm f/5.5 HD format continuous zoom lens from 3.6km distance, via IR Cameras infrared imaging system.

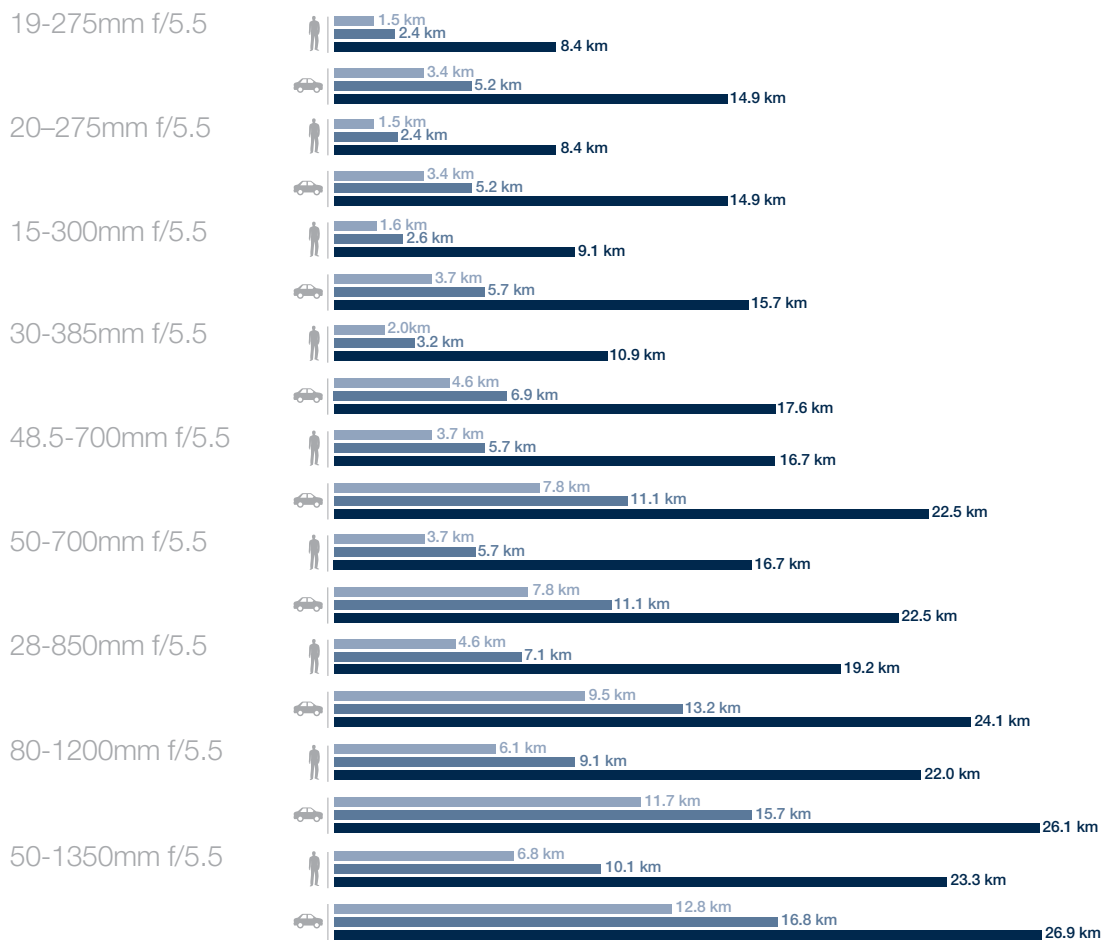
Zoom lens Detection, Recognition & Identification (DRI) performance

Uncooled LWIR, 17 μ m pixel size detector



Cooled MWIR, 10 μ m pixel size detector*





Identification
 Recognition
 Detection

Vehicle size 2.3m x 2.3m

Human size 1.7m X 0.5m

Note: Calculation used are based on "Johnson Criteria" | Real world performance may vary depending on the weather conditions

* Assumptions: 23mK NETD (f/4 & f/5.5) | 30Hz frame rate | 50% detection probability

Long Range Zoom Lens Index

Uncooled LWIR

25-150mm f/1.4 680119



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25-225mm f/1.5 680157



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40-300mm f/1.5 680264



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19-200mm f/4.0 680209



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15-300mm f/4.0 680084 & 680204



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21-420mm f/4.0 680160



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MWIR f/4

35/110/450mm f/4.0 680374



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30-600mm f/4.0 680384 & 680385



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35-690 mm f/4.0 680294 & 680295



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45-900mm f/4.0 680425 & 680426

NEW



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MWIR f/5.5

19-275mm f/5.5 65196



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20-275 mm f/5.5 680314

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50-700mm f/5.5 680472

NEW



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28-850mm f/5.5 680072



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80-1200 mm f/5.5 680478 & 680479

NEW



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50-1350mm f/5.5 680356

NEW



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SuplR 25-150mm f/1.4, Motorized Continuous Zoom 680119

Uncooled
LWIR

HD
FORMAT



WFOV (25mm)

HFOV	160x120	320x240	384x288	640x480	1024x768
25μ	9.2°	18.5°	22.3°	37.9°	
17μ	6.2°	12.5°	15.0°	25.3°	41.06°
12μ	4.7°	9.4°	11.3°	18.9°	30.6°

NFOV (150mm)

HFOV	160x120	320x240	384x288	640x480	1024x768
25μ	1.5°	3.0°	3.7°	6.1°	
17μ	1.0°	2.1°	2.5°	4.1°	6.6°
12μ	0.7°	1.5°	1.8°	2.9°	4.7°

Property	Value	
Optical	WFOV	NFOV
Back focal length	≥28mm in air	
Minimum focusing range	0.5m	13m
Mechanical		
Max. Dimensions	Ø141mm X132.9mm	
Weight	1.9kg	
Electrical		
Drive voltage	12VDC	
Current consumption	0.3A average, 0.8A peak	
Communication interface	RS422	

SuplR 25-225mm f/1.5, Motorized Continuous Zoom 680157

Uncooled
LWIR

HD
FORMAT



WFOV (25mm)

HFOV	160x120	320x240	384x288	640x480	1024x768
25μ	9.2°	18.4°	22.2°	37.6°	
17μ	6.2°	12.5°	15.0°	25.2°	41.1°
12μ	4.4°	8.8°	10.6°	17.7°	28.6°

NFOV (225mm)

HFOV	160x120	320x240	384x288	640x480	1024x768
25μ	1.0°	2.0°	2.4°	4.1°	
17μ	0.7°	1.4°	1.7°	2.8°	4.4°
12μ	0.5°	1.0°	1.2°	1.9°	3.1°

Property	Value	
Optical	WFOV	NFOV
Back focal length	30.7mm in air	
Minimum Focusing range	2m	20m
Mechanical		
Max. Dimensions	Ø178mm X239mm	
Weight	4.3kg	
Electrical		
Drive voltage	12VDC ±0.5V	
Current consumption	0.5A average, 3.5A peak	
Communication interface	RS422	

SuplR 40-300mm f/1.5, Motorized Continuous Zoom 680264

Uncooled
LWIR

HD
FORMAT



WFOV (40mm)

HFOV	160x120	320x240	384x288	640x480	1024x768
25μ	6.1°	12.2°	14.6°	24.5°	
17μ	4.1°	8.3°	9.9°	16.6°	26.8°
12μ	2.9°	5.8°	7.0°	11.7°	18.8°

NFOV (300mm)

HFOV	160x120	320x240	384x288	640x480	1024x768
25μ	0.8°	1.5°	1.8°	3.0°	
17μ	0.5°	1.0°	1.2°	2.1°	3.3°
12μ	0.4°	0.7°	0.9°	1.5°	2.3°

Property	Value	
Optical	WFOV	NFOV
Back focal length	56 mm in air	
Minimum focus range	2m	10m
Mechanical		
Max. Dimensions	Ø204mm X299.5mm	
Weight	9.5kg	
Electrical		
Drive voltage	6-12 VDC	
Current consumption	< 0.8A average, 1.5A peak	
Communication interface	RS422	

SuplR 19-200mm f/4.0, Motorized Continuous Zoom 680209

Cooled
MWIR

HD
FORMAT



WFOV (19mm)

HFOV	320x240	480x384	640x512
30μ	29.7°		
20μ	19.6°	29.7°	
15μ	14.6°	22.1°	29.7°
10μ			19.6°

WFOV (40mm)

HFOV	1280x1024
10μm	19.7°

NFOV (200mm)

HFOV	320x240	480x384	640x512	1280x1024
30μ	2.8°			
20μ	1.9°	2.8°	3.8°	
15μ	1.4°	2.1°	2.8°	
10μ			1.9°	3.8°

Property	Value	
Optical	WFOV	NFOV
Back focal length	25.1mm in air	
Cold stop to FPA distance	19.4mm	
Minimum focus range	5m	50m
Mechanical		
Max. Dimensions	Ø65mm X74.3mm	
Weight	400gr	
Electrical		
Drive voltage	6-12VDC	
Current consumption	< 0.5A average, 1.0A peak	
Communication interface	RS422	

* Requires export license

SupIR 15-300mm f/4.0, Motorized Continuous Zoom 680084/680204

Cooled
MWIR

HD
FORMAT



WFOV (15mm)

HFOV	320x240	480x384	640x512	1280x1024
30μ	35.1°			
20μ	24.0°	35.1°	44.9°	
15μ	18.2°	26.8°	35.1°	
10μ			24.0°	44.9°

NFOV (300mm)

HFOV	320x240	480x384	640x512	1280x1024
30μ	1.8°			
20μ	1.2°	1.8°	2.4°	
15μ	0.9°	2.1°	1.8°	
10μ			1.2°	2.4°

Property

Value

Optical	WFOV	NFOV
Back focal length	25.1mm in air (680084) / 27.1mm in air (680204)	
Cold stop to FPA distance	19.4mm (680084)/ 20.5mm (680204)	
Minimum focusing range	5m	50m
Mechanical		
Max. Dimensions	Ø96mm X 130mm	
Weight	965gr	
Electrical		
Drive voltage	12VDC	
Current consumption	0.5A average, 1.0A peak	
Communication interface	RS422	

SupIR 21-420mm f/4.0, Motorized Continuous Zoom 680160

Cooled
MWIR

HD
FORMAT



WFOV (21mm)

HFOV	320x240	480x384	640x512
30μ	24.1°		
20μ	17.1°	25.1°	
15μ	13.0°	19.1°	25.1°
10μ			17.1°

WFOV (33mm)

HFOV	1280x1024
10μ	20.0°

NFOV (420mm)

HFOV	320x240	480x384	640x512	1280x1024
30μ	1.3°			
20μ	1.2°	1.3°	1.7°	
15μ	0.64°	1.0°	1.3°	
10μ			1.2°	1.7°

Property

Value

Optical	WFOV	NFOV
Back focal length	≥ 24.4mm in air	
Cold stop to FPA distance	19.4mm / 20.5mm for config. 005/006/011/012	
Minimum focus range	10m	100m
Mechanical		
Max. Dimensions	Ø132mm X 200.5mm	
Weight	1.6kg	
Electrical		
Drive voltage	12VDC	
Current consumption	0.5A average, 1.0A peak	
Communication interface	RS422	

SupIR 35/110/450mm f/4.0, Motorized Continuous Zoom 680374

Cooled
MWIR

HD
FORMAT



WFOV (35mm)

HFOV	320x240	480x384	640x512	1280x1024
30μ	15.3°	22.3°	28.5°	
20μ	10.3°	15.3°	20.0°	
15μ	7.8°	11.5°	15.2°	
10μ			10.3°	20.0°

MFOV (110mm)

HFOV	320x240	480x384	640x512	1280x1024
30μ	4.9°	7.2°		
20μ	3.3°	4.9°	6.4°	
15μ	2.4°	3.7°	4.9°	
10μ			3.3°	6.4°

NFOV (450mm)

HFOV	320x240	480x384	640x512	1280x1024
30μ	1.2°	1.8°		
20μ	0.8°	1.2°	1.6°	
15μ	0.6°	0.9°	1.2°	
10μ			0.8°	1.6°

Property	Value			
Optical	WFOV	MFOV	NFOV	
Back focal length	26.53mm in air			
Cold stop to FPA distance	19.4mm			
Minimum focus range	5m	10m	50m	
Mechanical				
Max. Dimensions	Ø134mm X218.6mm			
Weight	2.42kg			
Electrical				
Drive voltage	7.5V – 12V			
Current consumption	0.05A average, 0.06A peak			
Communication interface	RS422			

*Product delivered does not include cover

SupIR 30-600mm f/4.0, Motorized Continuous Zoom 680384/5

Cooled
MWIR

HD
FORMAT



WFOV (30mm)

HFOV	320x240	480x384	640x512
30μ	17.2°	23.6°	
20μ	11.9°	17.2°	21.7°
15μ	9.0°	13.3°	17.2°
10μ			11.9°

WFOV (60mm)

HFOV	1280x1024
10μ	11.4°

NFOV (600mm)

HFOV	320x240	480x384	640x512	1280x1024
30μ	0.9°	1.3°		
20μ	0.6°	0.9°	1.2°	
15μ	0.5°	0.7°	0.9°	
10μ			0.6°	1.2°

Property	Value	
Optical	WFOV	NFOV
Back focal length	25.1mm in air (680384) / 27.1mm in air (680385)	
Cold stop to FPA distance	19.4mm (680384) / 20.5mm (680385)	
Minimum focus range	5m	200m
Mechanical		
Max. Dimensions	Ø173mm X 251.9mm	
Weight	3.1kg	
Electrical		
Drive voltage	6-12VDC	
Current consumption	<0.5A average, 1.0A peak	
Communication interface	RS422	

SupIR 35-690mm f/4.0, Motorized Continuous Zoom 680294/5

Cooled
MWIR

HD
FORMAT



WFOV (35mm)

HFOV	320x240	480x384	640x512
30μ	15.2°		
20μ	10.4°	15.2°	
15μ	7.9°	11.6°	15.2°
10μ			10.4°

WFOV (60mm)

HFOV	1280x1024
10μ	13.5°

NFOV (690mm)

HFOV	320x240	480x384	640x512	1280x1024
30μ	0.9°			
20μ	0.6°	0.9°	1.0°	
15μ	0.5°	0.7°	0.9°	
10μ			0.5°	1.0°

Property	Value	
Optical	WFOV	NFOV
Back focal length	25.1mm in air (680294) / 27.1mm in air (680295)	
Cold stop to FPA distance	19.4mm (680294) / 20.5mm (680295)	
Minimum focus range	5m	200m
Mechanical		
Max. Dimensions	Ø210mm X 264mm	
Weight	~4.3kg	
Electrical		
Drive voltage	6-12VDC	
Current consumption	<0.5A average, 1.0A peak	
Communication interface	RS422	

SupIR 45-900mm f/4.0, Motorized Continuous Zoom 680425/6

Cooled
MWIR

HD
FORMAT



WFOV (45mm) for configuration 680425-001/2 & 680426-001/2

HFOV	320x240	480x384	640x512
30μ	11.4°		
20μ	7.9°	11.4°	14.3°
15μ	6.0°	8.8°	11.4°
10μ			7.9°

WFOV (72mm) for configuration 680425-003/4 & 680426-003/4

HFOV	320x240	480x384	640x512	1280x1024
15μ	3.8°	5.6°	7.3°	
10μ			5.0°	9.3°

NFOV (900mm) all configurations

HFOV	320x240	480x384	640x512	1280x1024
30μ	0.6°	0.9°		
20μ	0.4°	0.6°	°0.8	
15μ	0.3°	0.5°	°0.6	
10μ			0.4°	0.8°

Property	Value	
Optical	WFOV	NFOV
Back focal length	25.1mm in air (680425) / 27.1mm in air (680426)	
Cold stop to FPA distance	19.4mm (680425) / 20.5mm (680426)	
Minimum focus range	5m	200m
Mechanical		
Max. Dimensions	Ø286mm X 343.6mm	
Weight	~8kg	
Electrical		
Drive voltage	6-12VDC	
Current consumption	<0.5A average, 1.0A peak	
Communication interface	RS422	

SupIR 60-1200mm f/4 Motorized Continuous Zoom 680475/6

Cooled
MWIR

HD
FORMAT



NEW

WFOV (60mm)

HFOV	640x512
15μ	8.6°
10μ	5.9°

WFOV (100mm)

HFOV	640x512	1280x1024
15μ	5.3°	
10μ	3.6°	6.8°

NFOV (1200mm)

HFOV	640x512	1280x1024
15μ	0.5°	
10μ	0.3°	0.6°

Property	Value	
Optical	WFOV	NFOV
Back Focal Length	24.4mm in air (680475) / 25.1mm in air (680476)	
Cold stop to FPA Distance	19.4mm (680475) / 20.5mm (680476)	
Minimum Focusing Range	<5m	<200m
Mechanical		
Max. Dimensions	Ø388mm x 409.2mm	
Weight	14.6kg	
Electrical		
Drive Voltage	12VDC	
Current Consumption	0.5A average, 1.0A peak at T= -32°C; 0.2A average, 1.0A peak at T ≥ 20°C	
Communication Protocol	RS422	

SupIR 19-275mm f/5.5, Motorized Continuous Zoom 65196*

Cooled
MWIR



WFOV (19mm)

HFOV	320x240	480x384	640x512
30μ	29.8°		
20μ	19.6°	29.8°	
15μ	14.6°	22.1°	29.8°

NFOV (275mm)

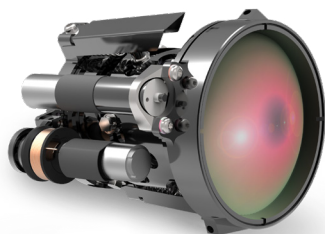
HFOV	320x240	480x384	640x512
30μ	2.0°		
20μ	1.3°	2.0°	
15μ	1.0°	1.5°	2.0°

Property	Value	
Optical	WFOV	NFOV
Back focal length	24.7mm in air	
Cold stop to FPA distance	19.7mm	
Minimum focusing range	5m	50m
Mechanical		
Max. Dimensions	Ø63.5mm X 74.3mm	
Weight	445gr	
Electrical		
Drive voltage	12VDC	
Current consumption	0.2A average, 1.0A peak	
Communication interface	RS422	

* Requires export license

LightIR 20-275mm f/5.5, Motorized Continuous Zoom 680314

Cooled
MWIR



NEW

WFOV (20mm)

HFOV	320x240	480x384	640x512
20μ	19.4°	28.0°	
15μ	14.5°	20.9°	28.0°

NFOV (275mm)

HFOV	320x240	480x384	640x512
20μ	1.3°	1.9°	
15μ	1.0°	1.5°	1.9°

Property	Value	
Optical	WFOV	NFOV
Back focal length	23.52mm in air	
Cold stop to FPA distance	19.7mm	
Minimum focusing range	5m	50m
Mechanical		
Max. dimensions	Ø58mm X 67.1mm	
Weight	264gr	
Electrical		
Drive voltage	12VDC	
Current consumption	0.5A average, 1.0A peak at T = -32°C; 0.2A average, 1.0A peak at T ≥ 20°C	
Communication interface	RS485, RS422	

SupIR 15-300mm f/5.5, Motorized Continuous Zoom 680313

Cooled
MWIR



WFOV (15mm)

HFOV	320x240	480x384	640x512
30μ	36.4°	53.7°	
20μ	24.4°	36.4°	48.0°
15μ	18.4°	27.5°	36.4°

NFOV (300mm)

HFOV	320x240	480x384	640x512
30μ	1.8°	2.7°	
20μ	1.2°	1.8°	2.4°
15μ	0.9°	1.4°	1.8°

Property	Value	
Optical	WFOV	NFOV
Back focal length	25.33mm in air	
Cold stop to FPA distance	19.9mm-19.1mm	
Minimum focus range	5m	50m
Mechanical		
Max. Dimensions	Ø67mm X 93mm	
Weight	550gr	
Electrical		
Drive voltage	6-12VDC	
Current consumption	0.5A average, 1.0A peak	
Communication interface	RS422	

SupIR 30-385mm f/5.5, Motorized Continuous Zoom 680459

Cooled
MWIR



NEW

WFOV (30mm)

HFOV	320x240	480x384	640x512
20μ	12.5°	18.6°	
15μ	9.4°	14.0°	18.6°

NFOV (385mm)

HFOV	320x240	480x384	640x512
20μ	0.9°	1.4°	1.8°
15μ	0.7°	1.0°	1.4°

Property	Value	
Optical	WFOV	NFOV
Back focal length	23.7mm in air	
Cold Stop to FPA Distance	19.7mm	
Minimum Focus Range	5m	70m
Mechanical		
Weight	740gr	
Max. Dimensions	Ø98mm X 137.9mm	
Electrical		
Drive voltage	12VDC	
Current consumption	0.5A average, 1.0A peak at T = -32°C; 0.2A average, 1.0A peak at T ≥ 20°C	
Communication interface	RS485, RS422	

SupIR 48.5-700mm f/5.5, Motorized Continuous Zoom 680102-004*

Cooled
MWIR



WFOV (48.5mm)

HFOV	320x240	480x384	640x512
30μ	11.9°		
20μ	7.8°	11.9°	
15μ	5.8°	8.8°	11.9°

NFOV (700mm)

HFOV	320x240	480x384	640x512
30μ	0.8°		
20μ	0.5°	0.8°	
15μ	0.4°	0.6°	0.8°

Property	Value	
Optical	WFOV	NFOV
Back focal length	≥24.7mm in air	
Cold stop to FPA distance	19.7mm	
Minimum focusing range	31m	312m
Mechanical		
Max. Dimensions	Ø160mm X 189.3mm	
Weight	2.39Kg	
Electrical		
Drive voltage	12VDC	
Current consumption	0.2A average, 0.5A peak	
Communication interface	RS422	

* Requires export license

SuplR 50-700mm f/5.5, Motorized Continuous Zoom 680472

Cooled
MWIR



NEW

WFOV (50mm)

HFOV	320x240	480x384	640x512
20μ	7.6°	9.1°	
15μ	5.7°	6.8°	11.4°

NFOV (700mm)

HFOV	320x240	480x384	640x512
20μ	0.5°	0.6°	
15μ	0.4°	0.5°	0.8°

Property	Value	
Optical	WFOV	NFOV
Back focal length	23.52mm in air	
Cold Stop to FPA Distance	19.7mm	
Minimum Focus Range	1m	33mm
Mechanical		
Weight	≤2.5 kg	
Max. Dimensions	Ø156.2mm X 176.7mm	
Electrical		
Drive voltage	12VDC	
Current consumption	0.5A average, 1.0A peak at T= -32°C; 0.2A average, 1.0A peak at T ≥ 20°C	
Communication interface	RS485, RS422	

SuplR 28-850mm f/5.5, Motorized Continuous Zoom 680072*

Cooled
MWIR



HD
FORMAT

WFOV (28mm)

HFOV	320x240	480x384	640x512	1280x1024
30μ	19.8°	29.7°	39.8°	
20μ	13.2°	19.8°	26.4°	
15μ	9.9°	14.8°	19.8°	39.8°

NFOV (850mm)

HFOV	320x240	480x384	640x512	1280x1024
30μ	0.6°	1.0°	1.3°	
20μ	0.4°	0.6°	0.9°	
15μ	0.3°	0.5°	0.6°	1.3°

Property	Value	
Optical	WFOV	NFOV
Back focal length	≥ 37.6mm in air	
Cold stop to FPA distance	28mm	
Minimum focusing range	3m	50m
Mechanical		
Max. Dimensions	Length 256mm; Height 257.5mm	
Weight	4.6Kg	
Electrical		
Drive voltage	28VDC	
Current consumption	1.25A average, 2.5A peak	
Communication interface	RS422	

* Requires export license

SupIR 80-1200mm f/5.5 Motorized Continuous Zoom 680478

Cooled
MWIR



NEW

WFOV (80mm)

HFOV	640x512
15μ	7.1°

NFOV (1200mm)

HFOV	640x512
15μ	0.5°

Property	Value	
Optical	Narrow FOV	Wide FOV
Cold stop to FPA Distance	19.7mm	
Back Focal Length	23.52mm in air	
Minimum Focusing Range	220m	5m
Mechanical		
Max. Dimensions	Ø268mm x 325.5mm	
Weight	7.4kg	
Electrical		
Drive Voltage	12VDC	
Current Consumption	0.5A average, 1.0A peak at T= -32°C; 0.2A average, 1.0A peak at T ≥ 20°C	
Communication Protocol	RS458, RS422	

SupIR 50-1350mm f/5.5, Motorized Continuous Zoom 680356*

Cooled
MWIR

HD
FORMAT



NEW

WFOV (50mm)

HFOV	320x256	640x512	1280x1024
20μ	7.3°	14.4°	
15μ	5.4°	10.8°	20.5°
10μ		7.3°	14.4°

NFOV (1350mm)

HFOV	320x256	640x512	1280x1024
20μ	0.3°	0.5°	
15μ	0.2°	0.4°	0.8°
10μ		0.3°	0.5°

Property	Value	
Optical	WFOV	NFOV
Back focal length	37.6mm in air	
Cold stop to FPA distance	28mm	
Minimum focus range	5m	200m
Mechanical		
Max. Dimensions	Length 376.4mm; Ø281mm; height 293mm	
Weight	~13.7kg	
Electrical		
Drive voltage	28VDC	
Current consumption	1.25A average, 2.5A peak	
Communication interface	RS422	

* Requires export license



About Ophir IR Optics

With decades worth of knowledge and experience, Ophir Optronics Solutions LTD., Infrared Optics, an MKS Company (NASDAQ: MKSI), is a world-leading designer and manufacturer of high performance IR thermal lenses and optical elements for SWIR, MWIR & LWIR imaging. Using advanced technologies, innovative engineering, and design configurations, Ophir provides a global solution for homeland security, surveillance, commercial and defense applications: IR Components and complex lens assemblies with fixed or motorized focus and zoom lenses.

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