

IR LONG RANGE ZOOM LENSES

THE COMPLETE COLLECTION



SWIR 25-250mm f/5.5, f/4.0
> 26km detection range

* For 15µm pixel pitch



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

* For 15µm pixel pitch



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

* For 10µm pixel pitch



YOUR LONG DISTANCE NEEDS, MET.

Unmatched Clarity. Reliable Performance. Mission Success.

Our continuous zoom lens portfolio is engineered for demanding applications requiring precision and reliability over extended distances.

Precision at Any Range

Designed for homeland security, defense, and surveillance, these lenses deliver long detection ranges, ensuring clear target recognition and tracking even under challenging conditions, while

maintaining focus throughout the entire zoom range and preserving line-of-sight accuracy.

Complete IR Coverage

Comprehensive offerings across LWIR, MWIR, and SWIR solutions, tailored to mission needs and operational environments.

Key Features & Benefits

- Extended DRI performance
- Accurate thru-zoom boresight
- Continuous zoom with fixed F# maintained through the zoom range
- Focus stability maintains sharp focus throughout zoom
- Up to $\times 30$ zoom with fast FOV change
- Rugged, athermalized design for reliable operation in low temperatures and harsh environments
- Folded optics design for payload integration
- Wide coating options: Hard Carbon, High Durability, and Low Reflection coatings for maximum endurance
- Detector compatibility — Supports SXGA 10 μm , VGA 15 μm pixel pitch
- LWIR, MWIR, SWIR comprehensive zoom lens catalog



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

Long Range Zoom Lens Index

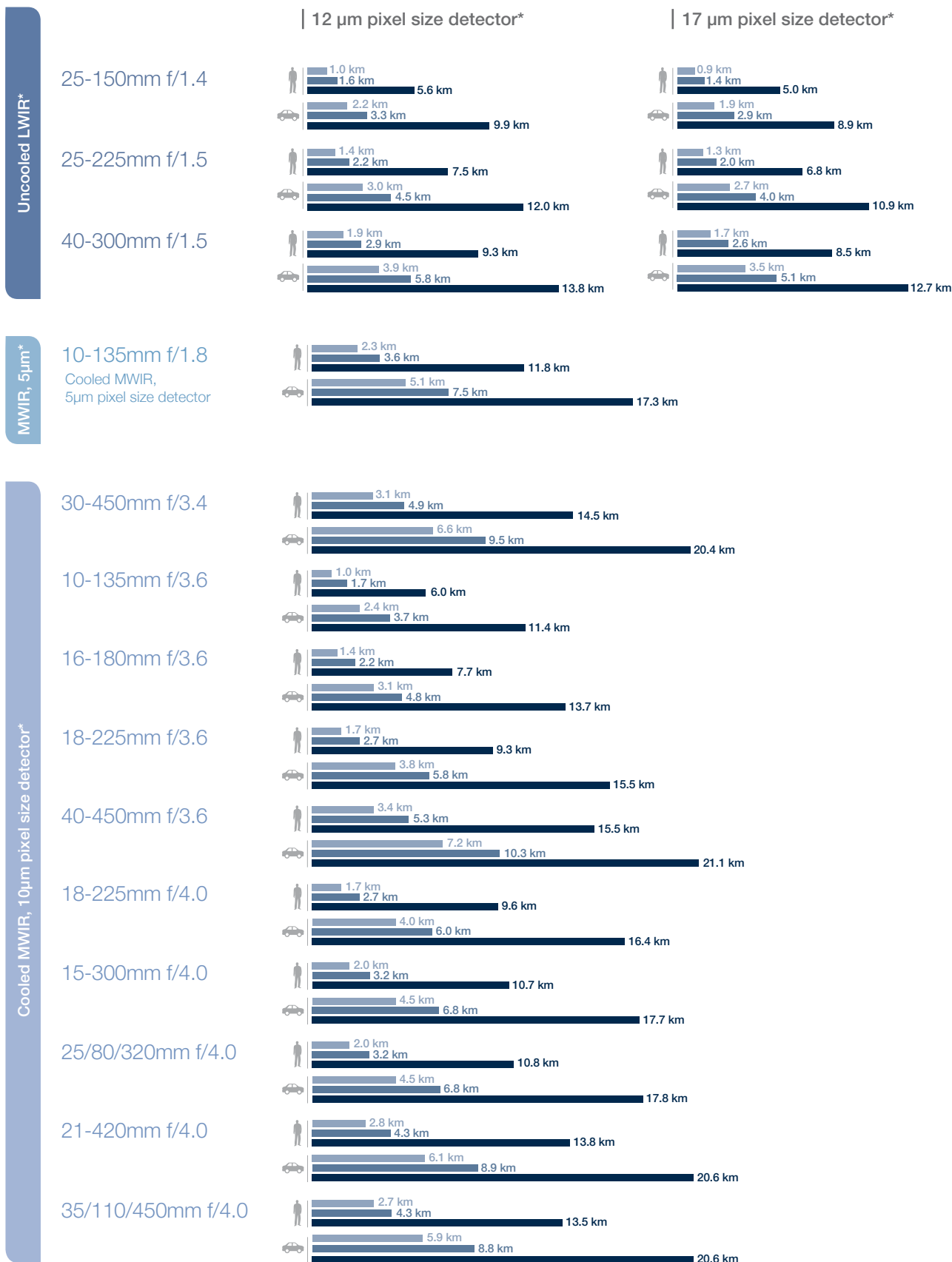
Uncooled LWIR	25-150mm f/1.4	680119			p.7
	25-225mm f/1.5	680157			p.7
	40-300mm f/1.5	680264			p.7
MWIR, 5µm	10-135mm f/1.8 Cooled MWIR, 5µm pixel size detector	680540	NEW		p.8
	30-450mm f/3.4	680465			p.8
Cooled MWIR, 10µm	10-135mm f/3.6	680451	NEW		p.9
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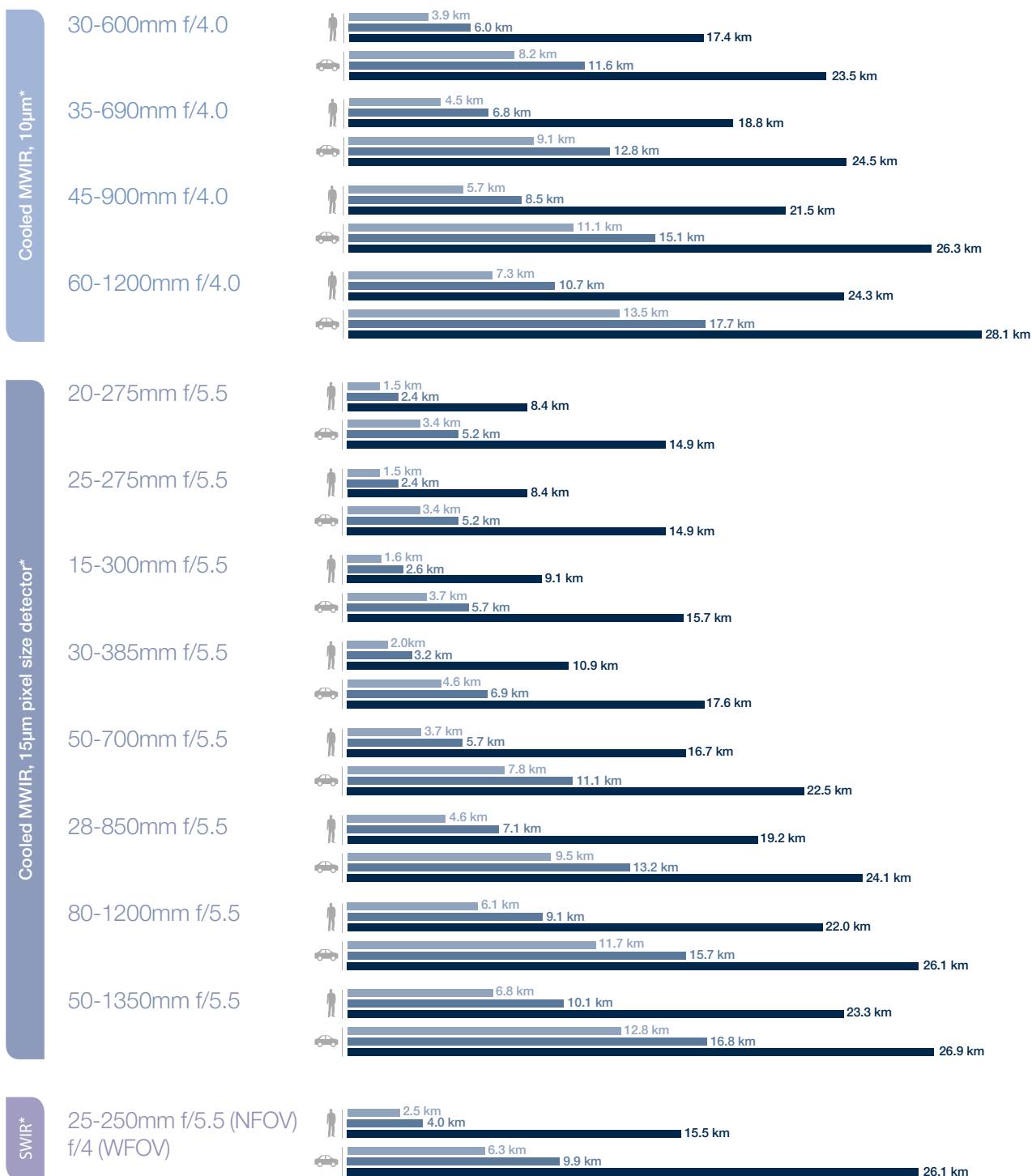
Cooled MWIR, 15µm	20-275 mm f/5.5	680314		p.15
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	50-1350mm f/5.5	680356		p.19
SWIR	25-250mm f/5.5 (NFOV) f/4.0 (WFOV)	680471		p.19



Image 2: Visible vs. SWIR imagery taken simultaneously from >20km distance.

Zoom lens Detection, Recognition & Identification (DRI) performance





■ 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: MWIR cooled detectors 23mK NETD (f/4 & f/5.5) | 35.5mK NETD (f/3.4) | 32mK NETD (f/3.6) | LWIR uncooled detectors 50mK NETD (f/1.0) | 30Hz frame rate | Human $\Delta T = 5^{\circ}C$ | vehicle $\Delta T = 2^{\circ}C$ | SWIR detectors 1280 | TRM4 model | day mode | $0.7\mu m$ to $1.7\mu m$ spectral range | 25Hz frame rate | overcast daylight irradiance | 0.2 path radiance factor | $0.2km^{-1}$ atmospheric attenuation coefficient | 50% detection probability | Human and vehicle target 50% reflectivity | 15% background reflectivity

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

Uncooled
LWIR



HD
FORMAT

WFOV (25mm)

HFOV	640x480	1024x768	1280x1024
17μ	25.3°	41.5°	
12μ	17.7°	28.7°	36.3°

NFOV (150mm)

HFOV	640x480	1024x768	1280x1024
17μ	4.1°	6.6°	
12μ	2.9°	4.6°	5.8°

Property		Value	
Optical		WFOV	NFOV
	Back focal length	≥28mm in air	
	Minimum focusing range	1.2m	45m
Mechanical		Ø130mm X 132.4mm, 1.9kg	
Electrical		0.3A average, 0.8A peak @12V, RS422	

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

Uncooled
LWIR



HD
FORMAT

WFOV (25mm)

HFOV	640x480	1024x768	1280x1024
17μ	25.2°	41.1°	
12μ	17.7°	28.6°	35.9°

NFOV (225mm)

HFOV	640x480	1024x768	1280x1024
17μ	2.8°	4.4°	
12μ	1.9°	3.1°	3.9°

Property		Value	
Optical		WFOV	NFOV
	Back focal length	30.6mm in air	
	Minimum focusing range	1m	>20m
Mechanical		Ø178mm X 226.5mm, 4.3kg	
Electrical		0.5A average, 3.5A peak @12V, RS422	

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

Uncooled
LWIR



HD
FORMAT

WFOV (40mm)

HFOV	640x480	1024x768	1280x1024
17μ	16.6°	26.8°	
12μ	11.7°	18.8°	23.5°

NFOV (300mm)

HFOV	640x480	1024x768	1280x1024
17μ	2.1°	3.3°	
12μ	1.5°	2.3°	2.9°

Property		Value	
Optical		WFOV	NFOV
	Back focal length	56 mm in air	
	Minimum focusing range	2m	10m
Mechanical		Ø222mm X 300.5mm, 9.5kg	
Electrical		<0.8A average, 1.5A peak @12V, RS422	

SupIR 10-135mm f/1.8, Motorized Continuous Zoom 680540

Cooled
MWIR



NEW

WFOV (10mm)

HFOV	1280x1024
5μ	37.7°

NFOV (135mm)

HFOV	1280x1024
5μ	2.67°

Property	Value	
Optical	WFOV	NFOV
Focal length	10mm	135mm
Cold stop to FPA distance	12mm	
Minimum focusing range	5m	50m
Mechanical		
Max. Dimensions	Ø90mm x 129mm	
Weight	780gr	
Electrical		
Drive voltage	12VDC	
Communication Protocol	RS485, RS232	

FoldIR 30-450mm f/3.4, Motorized Continuous Zoom 680465

Cooled
MWIR



HD
FORMAT

WFOV (30mm)

HFOV	640x480	1280x1024
15μ	19.3°	
10μ	12.5°	26.9°

NFOV (450mm)

HFOV	640x480	1280x1024
15μ	1.3°	
10μ	0.8°	1.7°

Property	Value	
Optical	WFOV	NFOV
Focal length	30mm	450mm
Cold stop to FPA distance	19.4mm	
Minimum focusing range	20m	50m
Mechanical		
Max. Dimensions	Ø146mm X 247mm	
Weight	2kg	
Electrical		
Drive voltage	12V	
Current consumption	<0.5A average, 1.0A peak	
Communication interface	RS422, RS232	

LightIR 10-135mm f/3.6, Motorized Continuous Zoom 680451

Cooled
MWIR



NEW

WFOV (10mm)

HFOV	640x512
10μ	37.0°

NFOV (135mm)

HFOV	640x512
10μ	2.67°

Property	Value	
Optical	WFOV	NFOV
Focal length	10mm	135mm
Cold stop to FPA distance	12mm	
Minimum focusing range	5m	50m
Mechanical		
Max. Dimensions	Ø46 x 86.4mm	
Weight	250gr	
Electrical		
Drive voltage	12V	
Current consumption	<0.5A average, 1.0A peak	
Communication interface	RS422	

FoldIR 16-180mm f/3.6, Motorized Continuous Zoom 680389

Cooled
MWIR



WFOV (16mm)

HFOV	640x480
10μ	22.6°

NFOV (180mm)

HFOV	640x480
10μ	2°

Property	Value	
Optical	WFOV	NFOV
Focal length	16mm	180mm
Cold stop to FPA distance	12mm	
Minimum focusing range	5m	50m
Mechanical		
Max. Dimensions	Length 121mm; Width 70mm; Height 102mm	
Weight	465gr	
Electrical		
Drive voltage	12V	
Current consumption	<0.5A average, 1.0A peak	
Communication interface	RS422, RS232	

LightIR 18-225mm f/3.6, Motorized Continuous Zoom 680442

Cooled
MWIR



WFOV (18mm)

HFOV	640x512
10μ	20°

NFOV (225mm)

HFOV	640x512
10μ	1.6°

Property	Value	
Optical	WFOV	NFOV
Focal length	18mm	225mm
Cold stop to FPA distance	12mm	
Minimum focusing range	5m	50m
Mechanical		
Max. Dimensions	Ø63mm X 84.6mm	
Weight	<305gr	
Electrical		
Drive voltage	6-12VDC	
Current consumption	<0.5A average, 1.0A peak	
Communication interface	RS422	

LightIR 40-450mm f/3.6, Motorized Continuous Zoom 680533

Cooled
MWIR



NEW

WFOV (40mm)

HFOV	640x480
10μ	8.9°

NFOV (450mm)

HFOV	640x480
10μ	0.85°

Property	Value	
Optical	WFOV	NFOV
Focal length	40mm	450mm
Cold stop to FPA distance	12mm	
Minimum focusing range	50m	5m
Mechanical		
Max. Dimensions	Ø165 x length 222mm	
Weight	1.85kg	
Electrical		
Drive voltage	12VDC	
Current consumption	<0.5A average, 1.0A peak	
Communication interface	RS422	

SupIR 18-225mm f/4, Motorized Continuous Zoom 680473

Cooled
MWIR

HD
FORMAT



WFOV (18mm)

HFOV	640x512	1280x1024
15μ	29.9°	
10μ	20.2°	39.1°

NFOV (225mm)

HFOV	640x512	1280x1024
15μ	2.4°	
10μ	1.6°	3.3°

Property	Value	
Optical	WFOV	NFOV
Focal length	18mm	225mm
Cold stop to FPA distance	19.4mm	
Minimum focusing range	5m	50m
Mechanical		
Max. Dimensions	Ø61.4mm X 84mm	
Weight	324gr	
Electrical		
Drive voltage	12V	
Current consumption	<0.5A average, 1.0A peak	
Communication interface	RS422	

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

Cooled
MWIR

HD
FORMAT



WFOV (15mm)

HFOV	640x512	1280x1024
15μ	35.1°	
10μ		44.9°

NFOV (300mm)

HFOV	640x512	1280x1024
15μ	1.8°	
10μ		2.4°

Property	Value	
Optical	WFOV	NFOV
Back focal length	23.3mm in air (680084) / 26.2mm 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	990gr	
Electrical		
Drive voltage	12V	
Current consumption	0.5A average, 1.0A peak	
Communication interface	RS422	

SupIR 25/80/320mm f/4.0, Motorized Focus 680024

Cooled
MWIR

HD
FORMAT



WFOV (25mm)

HFOV	640x512	1280x1024
15μ	21.6°	
10μ	14.5°	28.4°

MFOV (80mm)

HFOV	640x512	1280x1024
15μ	6.8°	
10μ	4.6°	9.0°

NFOV (320mm)

HFOV	640x512	1280x1024
15μ	1.7°	
10μ	1.1°	2.2°

Property	Value		
Optical	WFOV	MFOV	NFOV
Focal length	25mm	80mm	320mm
Back focal length	26.5mm in air		
Minimum focusing range	5m	10m	50m
Mechanical			
Max. Dimensions	Ø134mm X 165.5mm		
Weight	1.52kg		
Electrical			
Focus & FOV motor	6VDC I _{max} < 0.06A (Contin. Current 0.05A)		

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

Cooled
MWIR

HD
FORMAT



WFOV (21mm)

HFOV	640x512
15μ	25.1°
10μ	

WFOV (33mm)

HFOV	1280x1024
10μ	20.0°

NFOV (420mm)

HFOV	640x512	1280x1024
15μ	1.3°	
10μ		1.7°

Property	Value	
Optical	WFOV	NFOV
Back focal length	≥ 23.3mm 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	12V	
Current consumption	0.5A average, 1.0A peak	
Communication interface	RS422	

SupIR 35/110/450mm f/4.0, Motorized Focus 680374

Cooled
MWIR

HD
FORMAT



WFOV (35mm)

HFOV	640x512	1280x1024
15μ	15.2°	
10μ	10.3°	20.0°

MFOV (110mm)

HFOV	640x512	1280x1024
15μ	4.9°	
10μ	3.3°	6.4°

NFOV (450mm)

HFOV	640x512	1280x1024
15μ	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	Ø136mm X218.6mm		
Weight	2.4kg		
Electrical			
Drive voltage	7.5V – 12V		
Current consumption	0.05A average, 0.06A peak		

*Product does not include back upper cover as in picture

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

Cooled
MWIR

HD
FORMAT



WFOV (30mm)

HFOV	640x512
15μ	17.2°
10μ	

WFOV (60mm)

HFOV	1280x1024
10μ	11.4°

NFOV (600mm)

HFOV	640x512	1280x1024
15μ	0.9°	
10μ		1.2°

Property	Value	
Optical	WFOV	NFOV
Back focal length	23.3mm in air (680384) / 26.2mm in air (680385)	
Cold stop to FPA distance	19.4mm (680384) / 20.5mm (680385)	
Minimum focus range	5m	200m
Mechanical		
Max. Dimensions	Ø173mm X251.9mm	
Weight	3.1kg	
Electrical		
Drive voltage	12V	
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	640x512
15μ	15.2°
10μ	

WFOV (60mm)

HFOV	1280x1024
10μ	11.5°

NFOV (690mm)

HFOV	640x512	1280x1024
15μ	0.8°	
10μ		1.0°

Property	Value	
Optical	WFOV	NFOV
Back focal length	23.3mm in air (680294) / 26.2mm 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	4.0kg	
Electrical		
Drive voltage	12V	
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	640x512
15μ	11.4°
10μ	

WFOV (72mm)

for configuration 680425-003/4 &
680426-003/4

HFOV	640x512	1280x1024
15μ	7.3°	
10μ		9.3°

NFOV (900mm) all configurations

HFOV	640x512	1280x1024
15μ	0.6°	
10μ		0.8°

Property	Value	
Optical	WFOV	NFOV
Back focal length	23.3mm in air (680425) / 26.2mm 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	7kg	
Electrical		
Drive voltage	12V	
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



WFOV (60mm)

HFOV	640x512
15μ	8.6°
10μ	

WFOV (100mm)

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

NFOV (1200mm)

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

Property	Value	
Optical	WFOV	NFOV
Back Focal Length	23.3mm in air (680475) / 26.2mm 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	12V	
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	

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

Cooled
MWIR



WFOV (20mm)

HFOV	640x512
15μ	28.0°

NFOV (275mm)

HFOV	640x512
15μ	1.9°

Property	Value	
Optical	WFOV	NFOV
Back focal length	23.52mm in air	
Cold stop to FPA distance	19.7mm	
Minimum focus range	5m	50m
Mechanical		
Max. Dimensions	Ø58mm x 67.1mm	
Weight	264gr	
Electrical		
Supply Voltage	12V	
Current consumption	0.2A average, 1.0A peak	
Communication interface	RS422, RS485	

FoldIR 25-275mm f/5.5, Motorized Continuous Zoom 680520

Cooled
MWIR



NEW

WFOV (25mm)

HFOV	640x480
15μ	23.4°

NFOV (300mm)

HFOV	640x480
15μ	2.0°

Property	Value	
Optical	WFOV	NFOV
Back focal length	23.37mm in air	
Cold stop to FPA distance	19.4mm	
Minimum focus range	50m	5m
Mechanical		
Max. Dimensions	Ø60 x 96 x 84.2mm	
Weight	302gr	
Electrical		
Supply Voltage	12V	
Current consumption	<0.5A average, 1.0A peak	
Communication protocol	RS485, RS422	

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

Cooled
MWIR



WFOV (15mm)

HFOV	640x512
15μ	36.4°

NFOV (300mm)

HFOV	640x512
15μ	1.8°

Property	Value	
Optical	WFOV	NFOV
Back focal length	25.33mm in air	
Cold stop to FPA distance	19.7mm-19.1mm	
Minimum focus range	5m	50m
Mechanical		
Max. Dimensions	Ø67mm x 93mm	
Weight	560gr	
Electrical		
Supply Voltage	12V	
Current consumption	<0.5A average, 1.0A peak	
Communication protocol	RS422	

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

Cooled
MWIR



WFOV (30mm)

HFOV	640x512
15μ	18.6°

NFOV (385mm)

HFOV	640x512
15μ	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		
Max. Dimensions	Ø98mm x 137.9mm	
Weight	801gr	
Electrical		
Supply Voltage	12V	
Current consumption	0.5A average, 1.0A peak at T = -32°C; 0.2A average, 1.0A peak at T ≥ 20°C	
Communication protocol	RS485, RS422	

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

Cooled
MWIR



WFOV (50mm)

HFOV	640x512
15μ	10.9°

NFOV (700mm)

HFOV	640x512
15μ	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	33m
Mechanical		
Max. Dimensions	Ø156.2 x 176.7mm	
Weight	1.64kg	
Electrical		
Supply Voltage	12V	
Current consumption	0.5A average, 1.0A peak at T = -32°C; 0.2A average, 1.0A peak at T ≥ 20°C	
Communication protocol	RS485, RS422	

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

Cooled
MWIR



HD
FORMAT

WFOV (28mm)

HFOV	640x512	1280x1024
15μ	19.8°	39.8°

NFOV (850mm)

HFOV	640x512	1280x1024
15μ	0.6°	1.3°

Property	Value	
Optical	WFOV	NFOV
Back focal length	≥ 37.6mm in air	
Cold stop to FPA distance	28mm	
Minimum focus range	3m	50m
Mechanical		
Max. Dimensions	L 256mm x W 176mm x H 257.5mm	
Weight	4.6kg	
Electrical		
Supply Voltage	28VDC	
Current consumption	1.25A average, 2.5A peak	
Communication protocol	RS422	

* Requires export license

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

Cooled
MWIR



WFOV (80mm)

HFOV	640x512
15μ	7.1°

NFOV (1200mm)

HFOV	640x512
15μ	0.5°

Property	Value	
Optical	WFOV	NFOV
Back focal length	23.52mm in air	
Cold stop to FPA distance	19.7mm	
Minimum focus range	5m	220m
Mechanical		
Max. Dimensions	Ø268mm x 325.5mm	
Weight	7.4kg	
Electrical		
Drive Voltage	12V	
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



WFOV (50mm)

HFOV	640x512	1280x1024
15μ	10.8°	20.5°

NFOV (1350mm)

HFOV	640x512	1280x1024
15μ	0.4°	0.8°

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	L 376mm; Ø281mm; H 293mm	
Weight	15.6kg	
Electrical		
Drive voltage	28VDC	
Current consumption	1.25A average, 2.5A peak	
Communication interface	RS422	

* Requires export license

SWIR & NIR 25-250mm f/5.5 (NFOV) f/4.0 (WFOV) Motorized Continuous Zoom 680471

SWIR

HD
FORMAT



WFOV (25mm)

HFOV	640x512	1280x1024
15μ	21.7°	
10μ	14.6°	28.7°
5μ	7.3°	14.6°

NFOV (250mm)

HFOV	640x512	1280x1024
15μ	2.2°	
10μ	1.5°	2.9°
5μ	0.7°	1.5°

Property	Value	
Optical	WFOV	NFOV
Focal length	25mm	250mm
Back Focal Length	34.47mm in air (±0.1)	
Minimum focus range	2m	20m
Mechanical		
Max. Dimensions	Ø65mm x 244.1mm	
Weight	860gr	
Electrical		
Drive voltage	12V	
Current consumption	<0.5A (max)	
Communication interface	RS422	



About Ophir IR Optics

With decades worth of knowledge and experience, Ophir Optronics Solutions LTD., Infrared Optics, an MKS Inc. brand (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, we provide 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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