

IR LONG RANGE ZOOM LENSES

THE COMPLETE COLLECTION



SupIR 80-1200mm f/5.5
> 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.

Delivering highest performance, and exceptional detection, recognition, identification (DRI) ranges, our comprehensive collection of infrared thermal imaging long-range zoom lenses is designed for security and surveillance observation systems, as well as defense air-sea-land systems. This ensures optimal performance across various scenarios.

Key features

- LWIR, MWIR, SWIR solutions
- Extended detection, recognition, identification (DRI) ranges
- Accurate thru-zoom boresight
- Continuous zoom, with fixed F# maintained through the full zoom range
- Rugged design for harsh environment operability in low temperatures and the toughest environments
- Folded optics technology
- Zoom up to X30
- Wide range of coatings available: Hard Carbon, High Durability, Low Reflection Hard Carbon
- Fast FOV change
- Compatible with SXGA 10 μ m and 15 μ m pixel pitch detectors
- Diffraction-limited optical design
- Pre-set, discrete optical zoom positions



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.

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

Cooled
MWIR

HD
FORMAT



WFOV (21mm)

HFOV	640x512
15μ	25.1°
10μ	17.1°

WFOV (33mm)

HFOV	1280x1024
10μ	20.0°

NFOV (420mm)

HFOV	640x512	1280x1024
15μ	1.3°	
10μ	1.2°	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 X200.5mm	
Weight	1.6kg	
Electrical		
Drive voltage	12V	
Current consumption	0.5A average, 1.0A peak	
Communication interface	RS422	

SuplR 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	2.42kg		
Electrical			
Drive voltage	7.5V – 12V		
Current consumption	0.05A average, 0.06A peak		
Communication interface	RS422		

*Product does not include back upper cover as in picture