

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



**HD
FORMAT**

WFOV

HFOV	640x512	1280x720	1280x1024
21mm	22mm	33mm	
15 μ	25.1°		
10 μ		29°	20°

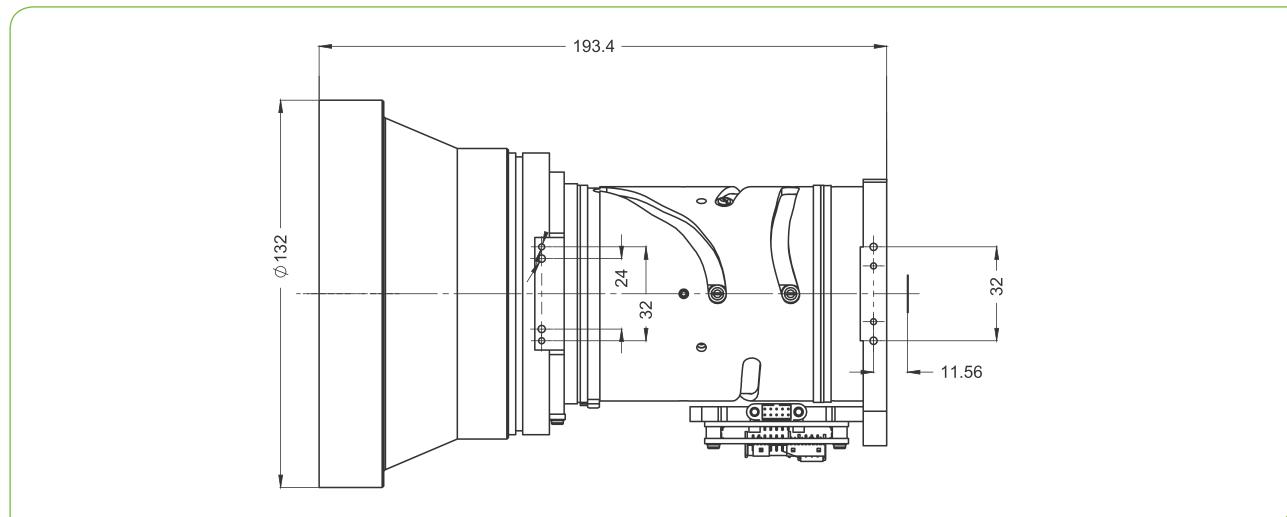
NFOV (420mm)

HFOV	640x512	1280x720	1280x1024
15 μ	1.3°		
10 μ		1.7°	1.7°

Property	Value	
Optical	WFOV	NFOV
Focal Length	21mm	420mm
F/#	4.0	
Cold Stop to FPA Distance	19.4mm/20.5mm**	
Cold Stop CA	Ø4.85mm	
Spectral Range	3.4-5.0 μ m	
Average Transmission (3.4-5.0 μ m)	86% (HD) / 82% (LRHC)	
Back Focal Length (Assuming 1.5mm Ge Window & Filter)	≥ 23.3mm in air	
Minimum Focus Range	10m	100m
Nuc (by defocus)	Yes	
Mechanical		
Focus Mechanism	Motorized	
Focus Time (minimum range to ∞)	≤1 sec. at maximum speed	
Zoom Mechanism	Motorized	
Zoom Time (NFOV to WFOV)	≤5 sec. at -32°C; ≤4 sec. at T≥20°C (at max speed)	
Through-Zoom Boresight	within a radius of 0.25mm at the focal plane along the full zoom range	
Weight	1.6kg	
Max. Dimensions	Ø132x200.5mm	
Electrical		
Lens Control	Designated lens controller	
Supply Voltage	12V	
Current Consumption	0.5A average, 1.0A peak	
Communication Protocol	RS422	

* For 10 μ m SXGA detectors, the EFL is 33-420mm

** For config. 005/ 006/ 011/ 012



Property	Value				
Environmental					
Operating Temperature	-32°C to + 80°C				
Storage Temperature	-54°C to + 85 °C				
Sealing	IP 67 front element only				
Configurations	Description	FPA	Pixel Pitch	CSH	Coating
680160-001					HD
680160-003					LRHC**
680160-018	33-420mm	1280x1024	10 μ		HD Hydrophobic
680160-019				19.4mm	LRHC Hydrophobic**
680160-021					HC Hydrophobic
680160-002					HD
680160-004					LRHC**
680160-020	21-420mm	640x512	15 μ		HC Hydrophobic
680160-005					HD
680160-006					LRHC**
680160-011				20.5mm	HD
680160-012	22-420mm	1280x720	10 μ		LRHC**
680160-016					HC Hydrophobic
680160-017					HD Hydrophobic

* NOTE: The ICD drawing provided here is primarily a representation and may not accurately reflect the product's actual dimensions and specifications. For precise integration specifications contact your local sales representative.

** For detailed LRHC coating specifications see page 13