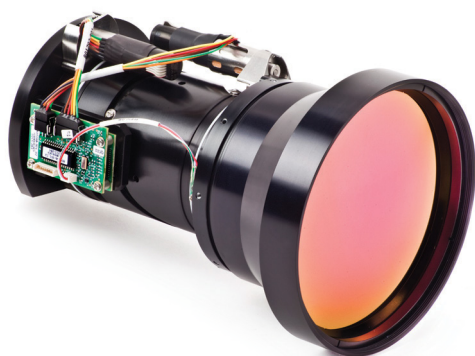


SupIR 21-420mm f/4.0*, Motorized Continuous Zoom 680160



HD
FORMAT

WFOV (21mm)	
HFOV	640x512
15μ	25.1°
10μ	-

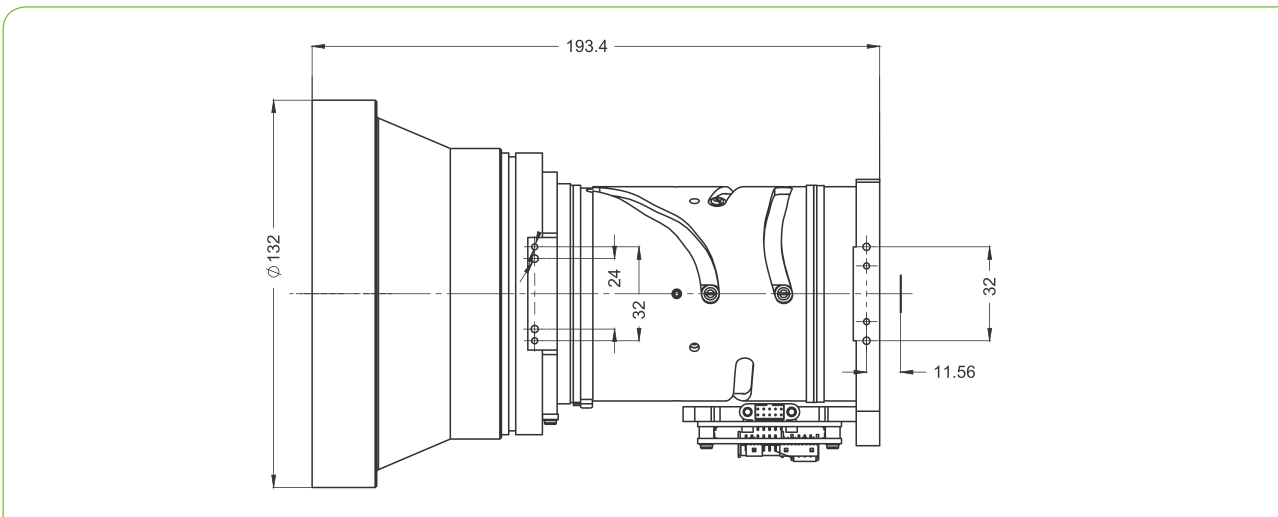
WFOV (33mm)	
HFOV	1280X1024
10μ	20.0°

NFOV (420mm)		
HFOV	640x512	1280X1024
15μ	1.3°	
10μ	-	1.7°

Property	Value	
Optical	WFOV	NFOV
Focal Length	21mm	420mm
F/#	4.0	
Cold Stop to FPA Distance	19.4mm/20.5mm**	
Cold Stop CA	Ø4.85mm	
Spectral Range	3.4-5.0μm	
Average Transmission (3.4-5.0μm)	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)	≤8 sec. at -32°C; ≤5 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 10μm SXGA detectors, the EFL is 33-420mm

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



MWIR | ZOOM

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					High Durability
680160-003					Low Reflection Hard Carbon**
680160-018	33-420mm	1280x1024	10µ	19.4mm	High Durability Hydrophobic
680160-019					Low Reflection Hard Carbon Hydrophobic**
680160-021					Hard Carbon Hydrophobic
680160-002					High Durability
680160-004					Low Reflection Hard Carbon**
680160-020	21-420mm	640x512	15µ	20.5mm	Hard Carbon Hydrophobic
680160-005					High Durability
680160-006					Low Reflection Hard Carbon**
680160-011					High Durability
680160-012					Low Reflection Hard Carbon**
680160-016	33-420mm	1280x1024	10µ		Hard Carbon Hydrophobic
680160-017					High Durability 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