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)

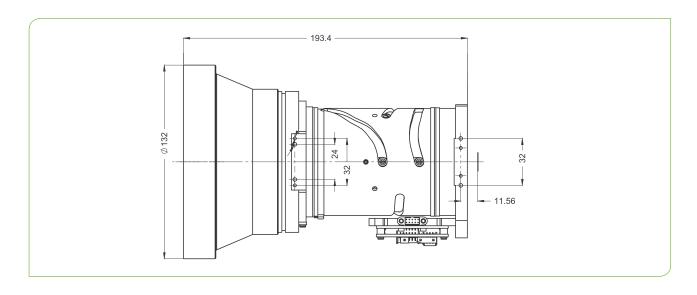
HFOV	640x512	1280X1024
15µ	1.3°	
10µ	-	1.7°

Property	Value				
Optical	WFOV	NFOV			
Focal Length	21mm	420mm			
F/#	4.0	4.0			
Cold Stop to FPA Distance	19.4mm/20.5mm**				
Cold Stop CA	Ø4.85mm	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				

 $^{^{\}ast}$ For 10 μm SXGA detectors, the EFL is 33-420mm

^{**} For config. 005/ 006/ 011/ 012





Property		Valu	Value			
Electrical						
Current Consumption			0.5A	0.5A average, 1.0A peak		
Communication Protocol		RS42	RS422			
Environmental						
Operating Temperature			-32°C	-32°C to + 80°C		
Storage Temperature -			-54°C	-54°C to + 85 °C		
Sealing	IP 67 front element only					
Configurations	Description	FPA	Pixel Pitch	CSH	Coating	
680160-001	— 33-420mm	1280x1024	10	- 19.4mm 	High Durability	
680160-003	— 33-420HiII		10μ		Low Reflection Hard Carbon**	
680160-002			15μ		High Durability	
680160-004	— 21-420mm	640x512			Low Reflection Hard Carbon**	
680160-005		0408312			High Durability	
680160-006					Low Reflection Hard Carbon**	
680160-011	— 33-420mm	1280x1024	10μ		High Durability	
680160-012	— 33-420HiII				Low Reflection Hard Carbon**	
680160-016			280x1024 10μ		Hard Carbon Hydrophobic	
680160-017	— 33-420mm	1000v1004			High Durability Hydrophobic	
680160-018	— 33-420HIII	120081024		19.4mm	High Durability Hydrophobic	
680160-019					Low Reflection Hard Carbon 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.

 $^{^{\}star\star}$ For detailed LRHC coating specifications see page 13

