

SupIR 35-690mm f/4.0*, Motorized Continuous Zoom 680294 / 680295



HD
FORMAT

WFOV

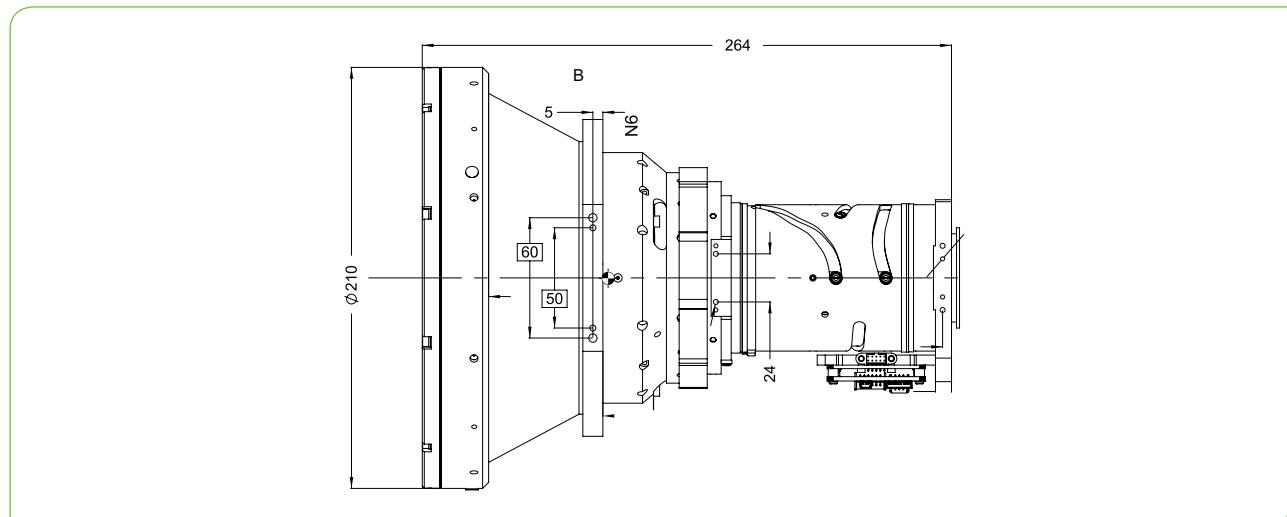
HFOV	640x512	1280x720	1280x1024
	35mm	46mm	60mm
15 μ	15.2°		
10 μ		14.8°	11.5°

NFOV (690mm)

HFOV	640x512	1280x720	1280x1024
15 μ	0.8°		
10 μ		1.0°	1.0°

Property	Value	
	WFOV	NFOV
Optical		
Focal Length	35mm	690mm
F/#	4.0	
Average transmission (3.4-5 μ m)	85% (HD) / 82% (HC)	
680294	Based on Zoom Lens: Cold stop to FPA Distance Cold Stop CA BFL	15-300mm f/4 680084-003 19.4mm Ø4.85mm 23.3mm (assuming 1.5mm Ge window & filter)
680295	Based on Zoom Lens: Cold stop to FPA Distance Cold Stop CA BFL	15-300mm f/4 680204-001 (for Scorpio detector) 20.47mm Ø5.1 26.6mm (assuming 1mm Si window & 0.3mm Ge cold filter)
Minimum Focus Range	5m	200m
Nuc (by defocus)	Yes	
Mechanical		
Focus Mechanism	Motorized	
Focus Time (minimum range to ∞)	\leq 1 sec.	
Zoom Mechanism	Motorized	
Zoom Time (NFOV to WFOV)	\leq 5 sec. at -32°C; \leq 4 sec. at T \geq 20°C (at max speed)	
Through-zoom boresight	Within a radius of 0.35 mm at the focal plane along the full zoom range	
NFOV boresight retention	Within a radius of 0.35mm at the focal plane	
Through-zoom parfocality	Focused image	
Weight	4kg	
Max. Dimensions	Ø210mm x 264mm	

* For 10 μ m SXGA detectors, the EFL is 60-690mm



Property	Value				
Electrical					
Lens Control	Designated lens controller				
Supply Voltage	12V				
Current Consumption	0.5A average, 1.0A peak				
Communication Protocol	RS422				
Environmental					
Operation Temperature	-32°C to +75°C				
Storage Temperature	-54°C to +85°C				
Sealing	IP 67 front element only				
Configurations	Description	FPA	Pixel Pitch	CSH	Coating
680294-001	35-690mm	640x512	15 μ		HC
680294-002					LRHC**
680294-003				19.4mm	HC
680294-004	60-690mm	1280x1024	10 μ		LRHC**
680294-006					HD Hydrophobic
680294-007					HC Hydrophobic
680295-001	35-690mm	640x512	15 μ		HC
680295-002					LRHC**
680295-003				20.5mm	LRHC**
680295-005	46-690mm	1280x720	10 μ		HD Hydrophobic
680295-006					HC 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