

Ruggedized High Resolution 20-200mm SWIR Zoom Lens Data Sheet



Description

Beck Optronics Solutions offers a high performance, non-ITAR controlled, ruggedized zoom lens suitable for applications including long range surveillance, border security and remote weapon stations.

The lens is designed to operate over the 700-1700nm SWIR waveband of the latest InGaAs detectors, using aspheric lens design and special materials optimised for this spectrum. The system is fully automated for remote control, is built to full Mil-SPEC and can be customised to meet specific requirements.



Specification

Focal Length	20mm to 200mm
F/#	F/4 – F/30
Image size	12.4mm diagonal
Spectral correction	700nm to 1700nm
Field of view	27° at 20mm (320 x 256 x 30µm or 640 x 512 x 15µm detector) 2.7° at 200mm (320 x 256 x 3030µm or 640 x 512 x 15µm detector) 13.4° at 20mm (320 x 256 x 15µm detector) 1.34° at 200mm (320 x 256 x 15µm detector)
Focus range	10m to infinity
Zoom speed	≤5 seconds 20mm to 200mm
Focus speed	≤5 seconds 10m to infinity
Boresight retention	≤+/-0.1mrad
Operating/storage temperature range	-40°C to +70°C
Mass	1.9kg
Working voltage	12V DC nominal (7-15V)
Power requirements	0.5A maximum
Vibration	Tracked vehicle, MIL-STD-810G, method 514.6
Shock	Transportation: 3 shocks in each direction, 25g@6ms
Dimensions	213mm x 98.5mm x 85mm
Lens mount	C mount with sensor centration adjustment

About Beck Optronics Solutions

BOS has a reputation for excellence in design and manufacture of precision optics that can be traced back over 175 years. Based near London, UK, BOS delivers complex, integrated electro-optic systems for defence and commercial use across the electromagnetic spectrum from UV to LWIR.

For pricing or further information please contact us at:

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