

# Objective Lenses for Uncooled Detectors, 8-14 $\mu$ m

## Data Sheet



### Description

Beck Optronic Solutions offers a range of high performance, ruggedized and athermalised lenses for uncooled focal plane arrays operating in the 8-14 $\mu$ m waveband.



### Specification

Pixel Count	384 x 288	384 x 288	640 x 480
Pixel Pitch (microns)	35.0	25.0	25.0
Array dimensions (mm)	13.44 x 10.00	9.60 x 7.20	16.00 x 12.00

Focal Length (mm)	Hfov (degrees)	Hfov (degrees)	Hfov (degrees)
15.0	48.3	35.5	56.1
25.0	30.1	21.7	35.5
35.0	21.7	15.6	25.8
50.0	15.3	11.0	18.2
75.0	10.2	7.3	12.2
100.0	7.7	5.5	9.1
150.0	5.1	3.7	6.1

(Hfov – horizontal field of view)

Operating Temperature	-30°C to +55°C
Storage Temperature	-40°C to +71°C
Sealing	IP67
External Coating	High durability or high efficiency
Mechanical shock	MIL-E-5400, Para 3.2.24.6.3
Vibration	MIL-STD-810F

### About Beck Optronic 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.

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