

# 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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