

Product number:

18055\_100

**Athermalized  
Fixed focus**

**GASIR® Infrared Lens  
FL 6.2 mm f/1.0**

**Introduction**



Umicore's GASIR® infrared lenses have been developed for an easy fit with a wide range of camera cores. Our catalog lenses provide a cost-effective solution for high-resolution thermal imaging and sensing applications.

This **athermalized lens** offers superior performance from -40 °C to +80 °C. Its **fast aperture and sharp imaging** make it a prime choice for your application. It is adapted to the latest FLIR Boson® interface. This lens is compatible with **12 µm VGA** detectors and smaller.

**Optical Specifications**

Focal length	6.2 mm
Aperture-based f-number	f/1.0
Waveband	8-12 µm
Transmission	> 87% average over waveband
Focus range	0.28 m to infinity with 0.12 mm refocus
Assembly weight	25.8 g

**Field of view**

640 x 512	12 µm		75.0° (H) x 58.7° (V) - 100.1° (diagonal)
640 x 480	12 µm	VGA	75.0° (H) x 54.8° (V) - 97.2° (diagonal)
384 x 288	17 µm	qVGA+	62.7° (H) x 46.1° (V) - 80.3° (diagonal)
320 x 240	17 µm	qVGA	51.5° (H) x 38.2° (V) - 65.5° (diagonal)
320 x 240	12 µm	qVGA	35.9° (H) x 26.7° (V) - 45.2° (diagonal)

**Environmental Specifications**

Operating temperature	-40 °C to +80 °C
Storage temperature	-57 °C to +105 °C
Sealing	IP67

## Coating

One internal surface  
All other surfaces

Long Wave Pass coating @ 8-12  $\mu\text{m}$   
High efficiency anti-reflective coating @ 8-12  $\mu\text{m}$

## Assembly & Interface Specifications

Black anodized aluminium

Image plane-related dimensions valid with 0.63 mm Si detector window (not included)

