

Product number:

18059\_100

**Athermalized  
Fixed focus**

## **GASIR® Infrared Lens FL 35 mm f/1.1**

### 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 **ultralight, passively athermalized infrared lens** offers superior performance and is suitable for use with **17 µm VGA** and **12 µm VGA** detectors or smaller. It is adapted to the latest FLIR Boson® interface. Its **low weight** makes it ideally suited for use in handheld and airborne thermal imaging applications.

### Optical Specifications

Focal length	35.0 mm
Aperture-based f-number	f/1.14
Waveband	8-12 µm
Transmission	> 89% average over waveband
Focus range	5.0 m to infinity with 0.25 mm refocus
Assembly weight	45.1 g

### Field of view

640 x 480	17 µm	VGA	16.9° (H) x 12.9° (V) - 20.7° (diagonal)
384 x 288	25 µm	qVGA+	15.1° (H) x 11.5° (V) - 18.5° (diagonal)
320 x 240	25 µm	qVGA	12.7° (H) x 9.6° (V) - 15.7° (diagonal)
640 x 480	12 µm	VGA	12.2° (H) x 9.3° (V) - 15.1° (diagonal)
384 x 288	17 µm	qVGA+	10.5° (H) x 7.9° (V) - 13.0° (diagonal)
320 x 240	17 µm	qVGA	8.8° (H) x 6.6° (V) - 10.9° (diagonal)
384 x 288	12 µm	qVGA+	7.4° (H) x 5.6° (V) - 9.3° (diagonal)

### Environmental Specifications

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

