

TECHNICAL DATA SHEET

GASIR® Infrared Lens 6.8 mm f/1.4

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 passively athermalized infrared lens is suitable for use with detectors up to 17 μ m QVGA detectors. Its medium wide field of view makes it well-suited for thermal imaging applications.



OPTICAL SPECIFICATIONS

Effective focal length 6.8 mmRadiometric f-number f/1.4Waveband $8-12 \mu m$ Maximum field of view $48^{\circ} \times 36^{\circ}$ Image circle 7.0 mm

Fields of view (HFOV \times VFOV)

Detector	Detector format	
pixel pitch	160 × 120	320 × 240
17 µm	23° × 17.3°	$47^{\circ} \times 35^{\circ}$
25 µm	34° × 26°	_

Other detectors may be possible. Please contact us for more information.

LENS VARIANTS

Mechanical variant	Fixed Focus		
Mechanical interface	Standard M25		
Coating option	HEAR	iDLC TM	
Part number	09109_110	10005_110	

COATING OPTIONS

	Transmission*	Lens coatings	Comments
HEAR	> 97%	HEAR on all surfaces	Maximum transmission performance.
iDLC™	> 90%	iDLC™on front surface HEAR on all other surfaces	Durable coating for unprotected exterior use. Salt fog rated.

HEAR: High Efficiency Anti-Reflection; DLC: Diamond-Like Carbon

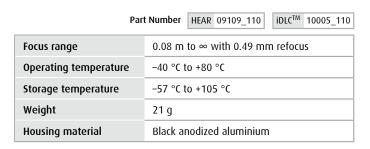
Additional specifications are provided in the coatings Technical Data Sheets available on our website.

^{*}average transmission over waveband



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Fixed Focus



^{*}dimensions valid with 1.0 mm Ge detector window

