

TECHNICAL DATA SHEET

GASIR® Infrared Lens 35 mm f/1.1

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 lens doesn't contain Germanium elements. Its **high performance and cost-effective design** makes it a prime choice for your application.

This lens is compatible with **17 µm VGA** detectors and smaller.



OPTICAL SPECIFICATIONS

Effective focal length	35 mm
Radiometric f-number	f/1.1
Waveband	8 – 12 µm
Maximum field of view	17.8° × 13.5°
Image circle	14.0 mm

Fields of view (HFOV × VFOV)

Detector pixel pitch	Detector format	
	320 × 240	640 × 480
12 µm	6.3° × 4.7°	12.4° × 9.4°
17 µm	8.9° × 6.7°	17.3° × 13.2°

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™
Part number	25005_100	25025_100

COATING OPTIONS

	Transmission*	Lens coatings	Comments
HEAR	> 94%	HEAR on all surfaces	Maximum transmission performance.
iDLC™	> 87%	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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Electro-Optic Materials

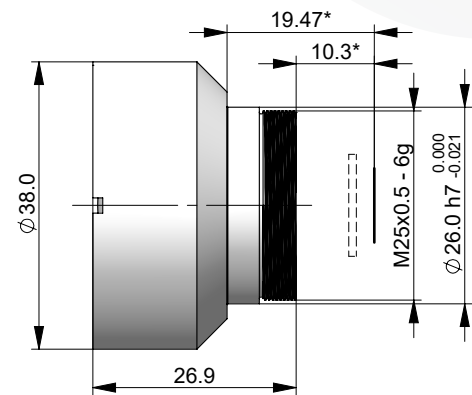
GASIR® Infrared Lens – 35 mm f/1.1

Fixed Focus

Part Number **HEAR 25005_100** **iDLC™ 25025_100**

Focus range	3.4 m to ∞ with 0.36 mm refocus
Operating temperature	-40 °C to +80 °C
Storage temperature	-57 °C to +105 °C
Sealing	IP67
Weight	46 g
Housing material	Black anodized aluminium

*dimensions valid with 1.0 mm Ge detector window



Electro-Optic Materials is ISO certified: ISO 9001 & ISO 14001

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