

TECHNICAL DATA SHEET

# GASIR<sup>®</sup> Infrared Lens 60 mm f/0.95

Umicore's GASIR<sup>®</sup> 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 may be offered with other coating variants upon request. This high performance lens is optimised for minimum weight. Material choices allow a moderate temperature range with passive optical athermalisation.

This lens is compatible with 12  $\mu\text{m}$  SXGA detectors and smaller.



## OPTICAL SPECIFICATIONS



Effective focal length	59 mm
Radiometric f-number	f/1.0
Waveband	8 – 12 $\mu\text{m}$
Maximum field of view	14.9° × 11.2°
Image circle	22.0 mm

## Fields of view (HFOV × VFOV)

Detector pixel pitch	Detector format		
	640 × 480	1024 × 768	1280 × 1024
12 $\mu\text{m}$	7.4° × 5.5°	11.7° × 8.8°	14.5° × 11.7°
17 $\mu\text{m}$	10.4° × 7.8°	16.4° × 12.4°	—

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

## LENS VARIANTS

Mechanical variant	Manual Focus 	Fixed Focus 
Mechanical interface	Standard M34	Standard M34
Coating option	iDLC <sup>™</sup>	iDLC <sup>™</sup>
Part number	23008_100	19094_100

## COATING OPTIONS

	Transmission*	Lens coatings	Comments
iDLC <sup>™</sup>	> 87%	iDLC <sup>™</sup> 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

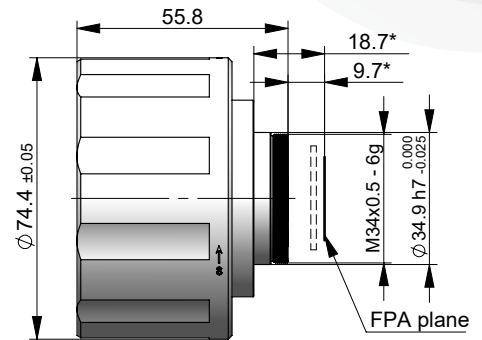


# GASIR® Infrared Lens – 60 mm f/0.95

## Manual Focus

Part Number **iDLC™ 23008\_100**

Manual focus range	5 m to ∞ with 180° ring rotation
Lateral magnification	1:100 at 5 m
Operating temperature	-40 °C to +80 °C
Storage temperature	-57 °C to +105 °C
Sealing	IP67
Weight	302 g
Housing material	Black anodized aluminium

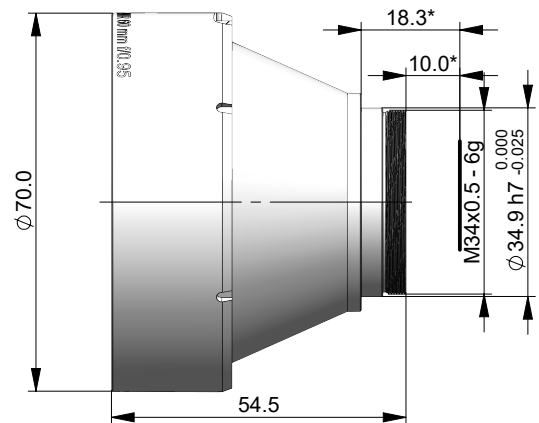


\*dimensions valid with 0.725 mm Si detector window

## Fixed Focus

Part Number **iDLC™ 19094\_100**

Focus range	8 m to ∞ with 0.45 mm refocus
Operating temperature	+10 °C to +30 °C
Storage temperature	-57 °C to +105 °C
Sealing	IP67
Weight	199 g
Housing material	Black anodized aluminium



\*dimensions valid with 0.725 mm Si detector window

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

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