## LWIR A-Thermal – commercial off the shelf lens

## RP-19A105

19 mm F/1.05 LWIR A-Thermal Lens for large FPA detectors

## FEATURES / APPLICATIONS / CAPABILITIES

- True A-Thermal lens for -40°C to + 62°C temperature range
- Rugged design for harsh environments
- High sensitivity F# as low as 1.05, supporting multiple detector formats



PARAMETER		VALUE	NOTES
Main	Sub		
OPTICAL			
Focal Length / F#		19 mm F/1.05	Nominal values.
Detector (FPA) type / size		1024 x 768 pixles x17μ or smaller	8-12μ
FOV (degrees)		FOV: 52.1° (H)	1024 x 768 pixles x17 microns
Optical Coatings			
	All internal surfaces	High efficiency AR coating	Average transmission: 85%
	Front surface	DLC coating	Hi durability AR coating is optional
Mechanical Back Focal Length		11mm to FPA	Assuming 1mm Ge cover glass
Total Weight		150 grams	Nominal
External Dimensions		75mm diameter x 67mm length	
Mount/ Mechanical Interface		Please refer to MICD	Custom interfacing, available upon request
<b>♦</b> ENVIRONMENTAL			
Operating Temperature		-40°C to +62°C	A-Thermal over the entire working range
Storage Temperature		-40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	
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