

LWIR A-Thermal – Commercial off the shelf lens

# RP-32A105

32mm F/1.05 LWIR A-Thermal Lens  
for large FPA detectors



## FEATURES / APPLICATIONS / CAPABILITIES

- True A-Thermal lens for -25°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#	32mm F/1.05	Nominal values.
Detector (FPA) type / size	1024 x 768 x17μ or smaller	8-12μ
FOV (degrees)	FOV: 31° (H) x 23.3° (V)	1024 x 768 x17 μ
Optical Coatings		
	All internal surfaces	High efficiency AR coating
	Front surface	DLC coating
		Average transmission: 72% for 8-12μ
		Hi durability AR coating is optional

### MECHANICAL

Mechanical Back Focal Length	8.86mm to FPA	
Total Weight	150 gr	Nominal
Ext. Dimensions ø x length (mm)	45 x 56.5	
Mount/ Mechanical Interface	Please refer to MICD	Custom interfacing, available upon request

### ENVIRONMENTAL

Operating Temperature	-25°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	IP66	IP 67 By request

