

LWIR A-Thermal – commercial off the shelf lens

RP-085A10

8.5 mm F/1.0 LWIR A-Thermal Lens
for large FPA detectors wide ULTRA WIDE FOV

AVAILABLE
SOON

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 1.0, supporting multiple detector formats

PARAMETER		VALUE	NOTES
Main	Sub		

🔍 OPTICAL			
Focal Length / F#		8.5 mm F/1.0	Nominal values.
Detector (FPA) type / size		1024 x 768 pixles x17μ or smaller	8-12μ
FOV (degrees)		FOV: 106° (H)	1024 x 768 pixles x17 microns
Optical Coatings			
	All internal surfaces	High efficiency AR coating	Average transmission: 83%
	Front surface	DLC coating	Hi durability AR coating is optional
Optical Total lens track		74mm	
⚙️ MECHANICAL			
Mechanical Back Focal Length		8.4mm to FPA	Assuming 1mm Ge cover glass
Total Weight		135 gram	Nominal
External Dimensions		45mm diameter, 65mm length	
Mount/ Mechanical Interface		Please refer to MICD	Custom interfacing, available upon request
🌿 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	

