

LWIR A-Thermal – commercial off the shelf lens

RP-35A12

35mm F/1.2 LWIR A-Thermal Lens
for 640 x 480 x 17u detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Ultra compact and light design
- High sensitivity F# as low as 1.2, supporting multiple detector formats
- Optically Athermalized lens for 100° C span

PARAMETER		VALUE	NOTES
Main	Sub		

🔍 OPTICAL			
Focal Length / F#		35 mm / F1.2	Nominal values.
Detector (FPA) type / size		640 x 480 pixles x17μ or smaller	
FOV (degrees)		FOV: 17.7° (H) x 13.3° (V)	640 x 480 pixles x 17 microns
		FOV: 15.6° (H) x 11.7° (V)	384 x 288 pixels x 25 microns
Optical Coatings			
	All internal surfaces	High efficiency AR coating	Average transmission: 92%
	Front surface	High durability AR coating	
Back Focal Length		13 mm	
⚙️ MECHANICAL			
Back Focal Length		10 mm	
Total Weight		39 gram	Nominal
External Dimensions		Diameter: 35 mm; Length: 32 mm	
Mount/ Mechanical Interface		Please refer to MICD	
Structure		Sealed	
🌿 ENVIRONMENTAL			
Operating Temperature		-40°C to +60°C	
Storage Temperature		-40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Sealing		IP67	

