

LWIR A-Thermal – commercial off the shelf lens

RP-16A11

16 mm F/1.1 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#		16 mm F/1.1	Nominal values.
Detector (FPA) type / size		1024 x 768 pixles x17μ or smaller	8-12μ
FOV (degrees)		FOV: 61.2° (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 Back Focal Length		6mm	
Mech. Back Working Distance		5mm	
⚙️ MECHANICAL			
Total Weight		115 grams	Nominal
External Dimensions		67mm diameter x 55mm length	
Structure		Sealed lens	
🌿 ENVIRONMENTAL			
Operating Temperature		-30°C to +70°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	

