

LWIR A-Thermal – commercial off the shelf lens

# RP-27A08

27mm F/0.8 LWIR A-Thermal Lens  
for 640 x 480 x 17u detectors

AVAILABLE  
SOON

## FEATURES / APPLICATIONS / CAPABILITIES

- Ultra compact and rugged design for harsh environments
- High sensitivity F# as low as 0.8, supporting multiple detector formats
- Optically Athermalized lens for 100° C span

PARAMETER		VALUE	NOTES
Main	Sub		

🔍 OPTICAL			
<b>Focal Length / F#</b>		27 mm / F0.8	Nominal values.
<b>Detector (FPA) type / size</b>		640 x 480 pixles x17μ or smaller	
<b>FOV (degrees)</b>		FOV: 22.8° (H)	640 x 480 pixles x 17 microns
Optical Coatings			
	<b>All internal surfaces</b>	High efficiency AR coating	Average transmission: 92%
	<b>Front surface</b>	High durability AR coating	
<b>Back Focal Length</b>		10.3mm	
⚙️ MECHANICAL			
<b>Back Focal Length</b>		9.3mm	
<b>Total Weight</b>		200 gram	Nominal
<b>External Dimensions</b>		Diameter: 58 mm; Length: 60 mm	
<b>Mount/ Mechanical Interface</b>		Please refer to MICD	
<b>Structure</b>		Sealed	
🌍 ENVIRONMENTAL			
<b>Operating Temperature</b>		-40°C to +60°C	
<b>Storage Temperature</b>		-40°C to +70°C	
<b>Shock and Vibrations</b>		Per applicable standard	
<b>Sealing</b>		IP67	

