

--- LWIR Continuous zoom – commercial off the shelf lens

CEDAR

15 – 100 mm F/1.4 LWIR Continuous zoom Lens



FEATURES / APPLICATIONS / CAPABILITIES

- Suitable for various applications
- High sensitivity (LOW F#) 1.4
- Rugged design for harsh environments

PARAMETER		VALUE	NOTES
Main	Sub		
🕒 OPTICAL			
Focal Length / F#		15 - 100mm / F1.4	Nominal values.
Detector (FPA) type / size		640 x 480 pixles x 17 microns	Effective detector size of 10.88 x 8.16 mm
FOV (degrees)		Wide: 43°(H) x 31.5° (V) Narrow: 6.15° (H) x 4.6° (V)	640 x 480 pixles x 17 microns
Optical Coatings			
	All internal surfaces	High efficiency AR coating	Average transmission: 87%
	Front surface	High durability AR coating	DLC is available upon request
Optical Total lens track		130 mm	Nominal from 1 st surface vertex to detector FPA
⚙️ MECHANICAL			
Mechanical Back Focal Length		9 mm	Nominal
Zoom mechanism/ Focus		Motorized	5m – Infinity for Wide 20m – Infinity for Narrow
Total Weight		1200 gram	Nominal
External Dimensions		Diameter: 115 mm; Length: 119 mm, Please refer to MICD	
💡 ELECTRICAL			
Power Input		12VDC, 1.0A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
🌿 ENVIRONMENTAL			
Operating/Storage Temperature		-40°C to +60°C / -50°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	By default