

MWIR Continuous zoom – commercial off the shelf lens

FOLDED-L

MWIR 15 - 300mm 30 - 600mm F/4 Continuous zoom Folded Lenses



FEATURES / APPLICATIONS / CAPABILITIES

- The ultimate solution for various applications such as stabilized small payloads
- Focus is maintained through the entire zoom range providing extremely fast zoom and focus response

| PARAMETER | | FOLDED-L300 | FOLDED-L600 |
|--------------------------------------|------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
| Main | Sub | | |
| OPTICAL | | | |
| Focal Length / F# | | 15 - 300 mm F/4 | 30 - 600 mm F/4 |
| Detector (FPA) type / size | | For 9.6 mm x 7.68 mm F/4 cooled detectors with 19 – 22 mm cold shield | |
| Working Spectral Range | | 3 – 5 μ | |
| FOV (degrees) | | Wide FOV: 25.5°(H) x 21° (V) Narrow FOV: 1.85°(H) x 1.5°(V) | Wide FOV: 18°(H) x 14.6° (V) Narrow FOV: 0.95°(H) x 0.75°(V) |
| Optical Coatings | | | |
| | All internal surfaces | High efficiency AR coating Average transmission: 90% | |
| | Front surface | High durability AR coating DLC is available upon request | |
| Optical Back Focal Length | | 34 mm | |
| MECHANICAL | | | |
| Mechanical Back Focal Length | | 24.7 mm Nominal | |
| Zoom mechanism | | Motorized with 2 motors | |
| Focus Range | | 10m – Infinity (wide) 30m – Infinity (Narrow) | |
| Total Weight | | 950 grams | 2 kg |
| External Dimensions | | Diameter: 144 mm; Length: 140 mm (Please refer to MICD for details) | Diameter: 165 mm; Length: 212 mm (Please refer to MICD for details) |
| 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 | | -30°C to +55°C / -40°C to +70°C | |
| Shock and Vibrations | | Per applicable standard | |
| Front lens sealing | | IP67 | |

