

MWIR Continuous zoom – Commercial off the shelf lens

IR-FLYs

MWIR 18-250mm F/4.0 Continuous zoom Lens
for 1280 x 1024 x 10 μ cooled detectors

Features:

- Ultra Compact and light weight lens
- Perfect solution for airborne payloads
- High accuracy „ZERO BORESIGHT“ design for maximum accuracy



| HFOV for Wide (18mm) | | | | HFOV for Narrow (250mm) | | | |
|----------------------|----------|-----------|------|-------------------------|----------|-----------|------|
| 640x512 | 1024x768 | 1280x1024 | IFOV | 640x512 | 1024x768 | 1280x1024 | IFOV |
| 10u | | 36.9° | 0.5 | | | 3° | 0.04 |
| 15u | 27.8° | | 0.76 | 2.25° | | | 0.06 |

| Optical | |
|---|--|
| Focal Length / F# | 18-250mm F/4.0 |
| Detector (FPA) type / size | Up to 640 x 512 x 15 μ |
| Working Spectral Range | 3 – 5 μ |
| Optical Coatings | All internal surfaces High efficiency AR coating |
| | Front surface High durability AR coating / DLC is available upon request |
| CSH | 19-22mm |
| Mechanical | |
| Focus / Zoom mechanism | Motorized |
| Focus Range | 20m / 200m – Infinity For WOFV / NFOV accordingly |
| Through zoom boresight | ≤0.075mm radius at focal plane |
| NFOV boresight retention | ≤0.03mm radius at focal plane |
| Total Weight | 265gr |
| Ext. Dimensions ϕ x length (mm) (mm) | 78.7 x 87 |
| Electrical | |
| Power Input | 12VDC, 1.0 A |
| Communication Protocol | RS-422/232 Full Duplex |
| Environmental | |
| Operating / Storage Temperature | -25°C to +55°C / -40°C to +80°C |
| Shock and Vibrations | Per applicable standard |
| Front lens sealing | IP66 IP67 By request |

*IFOV is indicated in mrad

**All values are nominal: to within \pm 5%