- SWIR continuous zoom – Commercial off the shelf lens

CROCUS1000

SWIR 100 –1000mm F/10 Continuous zoom Lens for up to 1280 x 1024 x 10 μ detectors

FEATURES / APPLICATIONS / CAPABILITIES:

- High-performance SWIR zoom lens for HD sensors
- "ZERO BORESIGHT" design for high accuracy demanding applications



| | HF0V for Wide (100mm) | | | HF0V for Narrow (1000mm) | | |
|-----|-----------------------|-----------|-------------|--------------------------|-----------|-------------|
| | 640x512 | 1280x1024 | IFOV (mrad) | 640x512 | 1280x1024 | IFOV (mrad) |
| 10u | 3.65° | 7.32° | 0.0057 | 0.4° | 0.75° | 0.00057 |
| 15u | 5.5° | | 0.0086 | 0.55° | | 0.00086 |

| PARAMETER | VALUE | NOTES | |
|----------------------------------------|----------------------------------|-----------------------------|--|
| Main Sub | | | |
| ◎ OPTICAL | | | |
| Focal Length / F# | 100-1000mm / F10 | | |
| Detector (FPA) type / size | Up to 1280 x 1024 x 10µ | | |
| Working Spectral Range | 0.9-1.7µ | | |
| MECHANICAL | | | |
| Mechanical Back Focal Length | 17.5mm | C-mount compatible | |
| Focus / Zoom mechanism | Motorized | | |
| Focus Range | 10m / 100m – Infinity | For WOFV / NFOV accordingly | |
| Through zoom boresight | < 0.15mm radius at focal plane | | |
| NFOV boresight retention | < 0.045 mm radius at focal plane | | |
| Total Weight | 3.7Kg | | |
| Ext. Dimensions ø x length (mm) | 117 x 508 | | |
| ₱ ELECTRICAL | | | |
| Power Input | 12VDC, 3.0A | | |
| Communication Protocol | RS-422/232 Full Duplex | | |
| 6 ENVIRONMENTAL | | | |
| Operating / Storage Temperature | -25°C to +55°C / -40°C to +75°C | | |
| Shock and Vibrations | Per applicable standard | | |
| Front lens sealing | IP66 | IP67 By request | |
| *All values are nominal: to within +5% | | | |

^{*}All values are nominal: to within $\pm 5\%$

