

» Orion

Dual Band Radiometer



- ▶ The Orion is a compact dual band non imaging radiometer with a boresight camera.
- ▶ Supports 2 spectral channels: NIR – SWIR and MWIR
- ▶ Thermoelectrically cooled detectors
- ▶ Factory-boresight with FOV overlay on the output video image
- ▶ Trigger input
- ▶ Computer controlled via LAN interface

Distribution in the UK & Ireland



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» Orion

Dual Band Fast Radiometer

» SPECIFICATIONS

| Parameter | Value | Comments |
|------------------------------|--|---|
| Number of Channels | 2 | |
| Spectral Band | 1-2.5 µm (InGaAs detector) And 2.5-5.5 µm (PV-MCT detector) | Both are TE cooled contact CI for additional options |
| Filters | Mounted on the front optics | |
| Attenuators | Neutral density filters mounted on the front optics | OD = 1 and 2 included |
| Field of View (FOV) | 12° (200 mrad) | |
| Field of View non-uniformity | < 10% | |
| Optics clear aperture | 23mm | |
| Rise time | < 40msec | |
| Radiometer bandwidth | 10kHz - 3db point | |
| A/D rate | up to 3k sample/sec/channel | |
| Outputs | Data on LAN | |
| Video aiming sight | FOV Video | Output via BNC |
| Input | TTL trigger | via BNC |
| Environmental conditions | | |
| Operation | 0°C - 40°C | Rugged for outdoor operation |
| Storage | -15°C ÷ 70°C | |
| Power supply | 100 - 240 VAC | External |
| Dimensions | L320 x W190 x H95 mm | |
| Weight | < 6Kg | |

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Characterisation,
Measurement &
Analysis

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