

OSIRIS RANGER EV02

UNCOOLED LWIR THERMAL ZOOM LENS OPTIONS: 20mm to 100mm 30mm to 180mm 26mm to 105mm 25mm to 225mm 30mm to 150mm



Above: Osiris Ranger EV02 25-225mm. Other models will vary.

The Osiris EVO2 is an accurate, multi sensor platform which utilises long range uncooled LWIR thermal sensors with a range of zoom lens options up to 25-225mm, alongside the latest low light HD visible sensor with zoom lens options up to 20-2400mm. The EVO2 range employs the latest 12µm thermal technology which has push autofocus capabilities as standard.

Combining advanced motor drive technology along with harmonic drives gears, all Osiris camera platforms are able to position our long range sensors accurately and quickly. The Osiris is also capable of incorporating specialist technologies such as long range illumination.

The Osiris's ruggedised design allows a high level of environment protection which is suitable for the most extreme and challenging environments.

KEY FEATURES

- Thermal camera detection* ranges up to 6.98km (human)
- Uncooled 12µm LWIR thermal sensors with zoom lens options up to 25-225mm
- Push autofocus as standard on the thermal sensors
- HD visible sensors with zoom lens options up to 20-2400mm
- 360° continuous rotation with pan and tilt speeds between 0.02° and 45° per second
- High level of camera positioning accuracy: 0.002°
- Absolute feedback, virtually zero backlash with automatic self position correction
- Unique cable managed, rapid release mechanism and bore sighting allows cameras to be quickly installed and changed in the field
- System configuration and sensors can be chosen to suit the specific requirements
- Ideally suited for single mast deployments such as mobile, border and maritime applications

*Johnsons Criteria,

(Human at 1.8m x 0.5m, Detection at 2 pixels, Recognition at 8 pixels and Identification at 13 pixels. 50% probability subject to environmental conditions). Based on the EV02 225.



RAPID RELEASE MECHANISM Allows quick changing of payloads



MODULAR DESIGN Enables cost effective, accurate long range surveillance



IP67 RATED Ruggedized and well suited to maritime applications

Specifications may be subject to change without notice 07/11/22 V4.2

UK Manufacturer



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OSIRIS RANGER EVO2



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OPT-EV02-180-W THERMAL SENSORS **OPT-EV02-100-W OPT-EV02-105-W** OPT-EV02-150-W OPT-EV02-225-W Focal Length 20mm to 100mm 26mm to 105mm 30mm to 150mm 30mm to 180mm 25mm to 225mm Horizontal FOV 22° (W) to 4.4° (T) 16.9° (W) to 4.2° (T) 14.7 (W) to 2.9° (T) 14.7° (W) to 2.4° (T) 17.6° (W) to 2.0° (T) F Number F1.1 F1.6 F1.2 F1.2 F1.5 Optical Zoom (Continuous) 5x, Motorised 4x, Motorised 5x, Motorised 6x, Motorised 9x, Motorised Digital Zoom 1x to 8x (0.1 steps) Focus Push autofocus, manual Detector Uncooled VOx microbolometer, ≤50mK (at 25°C, F1.0), 50Hz, 12µm, 640 x 512 Spectral Band 7.5 to 14µm (LWIR / 8 to 14µm) Image Stabilisation Yes, electronic image stabilisation (cost option) Image Processing Non-Uniform Correction (NUC), noise filtering, polarity control, Digital Detail Enhancement (DDE), polarity: white hot / black hot, 18x colour palettes Housina Weight Typically 12Kg / 26.4lb L572 x W258 x H226 Housing Size (mm) **HD VISIBLE SENSORS** Focal Length 4.3mm to 129mm 15.2mm to 500mm Horizontal FOV 63.7° (W) to 2.32° (T) 23.42° (W) to 0.78° (T) F-Number F1.6 to F4.7 F3.0 to F32 33x, Motorised Optical Zoom (Continuous) 30x, Motorised Digital Zoom 12x Focus Automatic, manual Push autofocus, manual Image Sensor 1/2.8" CMOS Exmor (2.13MP), full HD 1080p (1920 x 1080) 1/1.9" CMOS Sensor (2.38 MP), full HD 1080p (1920 x 1080) Colour 0.05 lux F1.2 gain of up to 60dB / 0.005 lux F1.2 / AGC @ Colour 0.01 lux . 42dB Min. Sensitivity Mono 0.0008 lux Mono 0.002 lux F1.2 gain of up to 60dB / 0.0002 lux F1.2 / AGC @ (high sensitivity mode) 42dB (accumulation 25 times) Yes, electronic image stabilisation (cost option) Image Stabilisation Yes, electronic image stabilisation Other Features Defog, digital noise reduction Housing Weight Typically 14Kg / 30.9lb Typically 4Kg / 8.8lb Housing Size (mm) L460 x W184 x H156 L572 x W258 x H231 **OSIRIS PAN AND TILT UNIT (PTU) ELECTRICAL AND MECHANICAL** Pan Range / Velocity 360° continuous / 0.02° to 45.0° per second IP, ONVIF, RTSP Video Output {Composite (PAL / NTSC) cost option} -90° to +90° / 0.02° to 45.0° per second Tilt Range / Velocity Integrated IP encoders provide simultaneous H.264 RSTP 0.002° / 0.035 mRad Accuracy Video over IP (H.265 cost option) Repeatability 0.002° / 0.035 mRad Ethernet Command and control of all functions including streaming of H.264 streams Actuation Custom stepper motors RS485 Command and control of all functions and firmware upgrade Speed Control Zoom dependent speed control Input Voltage Nominal 30vDC (28-32vDC) Presets 127x Preset positions, 16x preset tours System Power Typical: 53W Pelco D, Pelco D Extended, ONVIF Profile S Protocols Peak: 100W (including thermal and visible sensor payloads) Consumption RS485, ONVIF Profile-S, Serial <> IP Interface Anodised aluminum, white powder marine grade paint finish Housing Material Positioning Absolute positioning feedback (other colours are available upon request) IP67 IP Rating Through Shaft No PTU Weight 15.2kg / 35.5lb (excluding mounts and payloads, payload capacity 50kg) Temperature Range -30°C (-22°F) up to 65°C (149°F) (-40°C with optional heaters) PTU Size (mm) H361.3 x W225 x D225 (excluding mounts and payloads)

OPTIONALLY AVAILABLE HD Low Light Visible Sensor

HD Ultra Low Light Visible Sensor	15.2mm to 500mm (32.39° W to 1.0° T) or 20mm to 2400mm (24.87° W to 0.23° T) (with x2 extender on) 2/3" CMOS Sensor (2.2MP), full HD (1920 x 1080), colour 0.005 lux at F1. 4 / 50IRE, mono 0.000000001 lux at F1.4 / 50IRE
4K Visible Sensor	4.4mm to 88.4mm (70.2° W to 4.1° T) 1/2.5″ CMOS Sensor (8.51MP), 4K/QFHD (3840 x 2160), colour 0.4 lux (colour 0.06 lux with slow shutter on)
Technologies	Hardware based target acquisition and tracking capability, long range white light or infra-red illuminators (up to 3.5km), SWIR sensors
Storage	Up to 64GB in total via SD/MMC (32GB available per channel when using thermal and visible / 2x cameras)

16.7mm to 2000mm (21.2° W to 0.23° T) (with x2 extender on) 1/1.9" CMOS Sensor (2.38MP). full HD (1920 x 1080). colour 0.005 lux at F1.2 / 42dB mono 0.0002 lux at F1.2 / 42dB

PLEASE CONTACT US FOR A SPECIFIC CONFIGURATION

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