

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 12μ m 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





RAPID RELEASE MECHANISM

Allows quick changing

of payloads



MODULAR DESIGN
Enables cost effective, accurate
long range surveillance



IP67 RATEDRuggedized and well suited to maritime applications

Specifications may be subject to change without notice









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

UNCOOLED LWIR THERMAL ZOOM LENS CAMERAS

THERMAL SENSORS	0PT-EV02-100-W	0PT-EV02-105-W	0PT-EV02-150-W	OPT-EV02-180-W	0PT-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				
Housing Weight	Typically 12Kg / 26.4lb				
Housing Size (mm)	L572 x W258 x H226				

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	
Optical Zoom (Continuous)	30x, Motorised	33x, 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)	
Min. Sensitivity	Colour 0.01 lux Mono 0.0008 lux (high sensitivity mode)	Colour 0.05 lux F1.2 gain of up to 60dB / 0.005 lux F1.2 / AGC @ 42dB Mono 0.002 lux F1.2 gain of up to 60dB / 0.0002 lux F1.2 / AGC @ 42dB (accumulation 25 times)	
Image Stabilisation	Yes, electronic image stabilisation	Yes, electronic image stabilisation (cost option)	
Other Features	Defog, digital noise reduction		
Housing Weight	Typically 4Kg / 8.8lb	Typically 14Kg / 30.9lb	
Housing Size (mm)	L460 x W184 x H156	L572 x W258 x H231	

OSIRIS PAN AND TILT UNIT (PTU)		
Pan Range / Velocity	360° continuous / 0.02° to 45.0° per second	
Tilt Range / Velocity	-90° to +90° / 0.02° to 45.0° per second	
Accuracy	0.002° / 0.035 mRad	
Repeatability	0.002° / 0.035 mRad	
Actuation	Custom stepper motors	
Speed Control	Zoom dependent speed control	
Presets	127x Preset positions, 16x preset tours	
Protocols	Pelco D, Pelco D Extended, ONVIF Profile S	
Interface	RS485, ONVIF Profile-S, Serial <> IP	
Positioning	Absolute positioning feedback	
Through Shaft	No	
PTU Weight	15.2kg / 35.5lb (excluding mounts and payloads, payload capacity 50kg)	
PTU Size (mm)	H361.3 x W225 x D225 (excluding mounts and payloads)	

ELECTRICAL AND MECHANICAL			
Video Output	IP, ONVIF, RTSP {Composite (PAL / NTSC) cost option}		
Video over IP	Integrated IP encoders provide simultaneous H.264 RSTP (H.265 cost option)		
Ethernet	Command and control of all functions including streaming of H.264 streams		
RS485	Command and control of all functions and firmware upgrade		
Input Voltage	Nominal 30vDC (28-32vDC)		
System Power Consumption	Typical: 53W Peak: 100W (including thermal and visible sensor payloads)		
Housing Material	Anodised aluminum, white powder marine grade paint finish (other colours are available upon request)		
IP Rating	IP67		
Temperature Range	-30°C (-22°F) up to 65°C (149°F) (-40°C with optional heaters)		

OPTIONALLY AVAILABLE	
HD Low Light Visible Sensor	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
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)

PLEASE CONTACT US FOR A SPECIFIC CONFIGURATION

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SILENT SENTINEL INC



