



JAEGAR RANGER EVO2 HD

UNCOOLED LWIR THERMAL ZOOM LENS OPTIONS:

- 25mm to 75mm 25mm to 225mm
- 30mm to 150mm 30mm to 300mm



Above: Jaegar Ranger EVO2 HD 25-225mm.
Other models will vary.

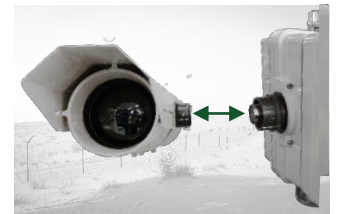
The Jaegar EVO2 HD is a high performance, multi sensor platform which utilises long range uncooled LWIR HD thermal sensors with a range of zoom lens options up to 30-300mm, alongside the latest low light HD visible sensor with zoom lens options up to 20-2400mm. The EVO2 range employs the latest 12µm thermal technology which has push autofocus capabilities as standard.

Combining advanced motor drive technology along with harmonic drive gears, all Jaegar camera platforms are able to position our longest-range sensors accurately and quickly. The Jaegar benefits from a fixed through shaft, which can enable payloads such as a RADAR to be mounted directly above the PT director.

The Jaegar’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 9.3km (human)
- Uncooled 12µm LWIR HD thermal sensors with zoom lens options up to 30-300mm
- Push autofocus as standard on the thermal sensors
- HD visible sensors with zoom lens options up to 20-2400mm
- Through shaft enabling fixed payloads to be mounted above the PT director
- 360° continuous rotation with pan and tilt speeds between 0.002° and 100° per second
- High level of camera positioning accuracy: 0.0002°
- 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



THROUGH SHAFT
Enables fixed payloads to be mounted above the PT Director



HIGH ACCURACY
Designed for long range surveillance applications

*Johnsons Criteria,
(Human at 1.8m x 0.5m, vehicle at 2.3m², Detection at 2 pixels, Recognition at 8 pixels and Identification at 13 pixels. 50% probability subject to environmental conditions). Based on the JPT-EV02-HD-300-W.

Specifications may be subject to change without notice
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JAEGAR RANGER EVO2 HD

UNCOOLED LWIR THERMAL ZOOM LENS CAMERAS



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THERMAL SENSOR	JPT-EV02-HD-75-W	JPT-EV02-HD-150-W	JPT-EV02-HD-225-W	JPT-EV02-HD-300-W
Focal Length	25mm to 75mm	30mm to 150mm	25mm to 225mm	30m to 300mm
Horizontal FOV	36.7° (W) to 11.5° (T)	28.7° (W) to 5.9° (T)	34.2° (W) to 3.9° (T)	29.0° (W) to 2.9° (T)
F Number	F1.2	F1.2	F1.5	F1.35
Optical Zoom (Continuous)	3x, Motorised	5x, Motorised	9x, Motorised	10x, Motorised
Digital Zoom	1x to 4x (0.1 steps)			
Focus	Push autofocus, manual			
Detector Type	Uncooled VOx microbolometer, ≤50mK (at 25°C, F1.0), 30Hz, 12µm, HD (1280 x 1024)			
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			
Weight (Typical)	12Kg / 26.4lb			18.3Kg / 40.4lb
Housing Size (Typical)	L572 x W258 x H226mm			L580 x W282 x H257mm

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 (Typical)	4Kg / 8.8lb	14Kg / 30.9lb
Housing Size (Typical)	L460 x W184 x H156mm	L572 x W258 x H231mm

JAEGER PAN AND TILT UNIT (PTU)	
Pan Range / Velocity	360° continuous / 0.002° up to 100.0° per second
Tilt Range / Velocity	-90° to +90° / 0.002° up to 100.0° per second
Accuracy	0.0002° / 0.0035 mRad
Repeatability	0.0002° / 0.0035 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	Yes
PTU Weight (Typical)	28kg / 61.8lb (excluding mounts, through shaft, payloads) (payload capacity 50kg)
PTU Size (Typical)	H434 x W343x D343mm (excluding mounts, through shaft 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 48VDC (36-72VDC)
System Power Consumption	Typical: 60W Peak: 170W (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), long range acoustic hailer (up to 2km), digital magnetic compass, GPS, SWIR sensors, LRF (laser range finders) up to 20km
Storage	Up to 64GB in total via SD/MMC (32GB available per channel when using thermal and visible / 2x cameras)
Aux Connectors (4 slots)	Power outputs - 12vDC, 6A / 24vDC, 15A / 48vDC, 10A Network output - Cat5e, 10/100 Base T Antenna connections - cellular, GPS, Wi-Fi, IP radio, GPS compass
Top Mount	Top mount extension / plate (for RADAR or top mount payload)

PLEASE CONTACT US FOR A SPECIFIC CONFIGURATION

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UK Manufacturer

