

JAEGAR RANGER EVO2

UNCOOLED LWIR THERMAL ZOOM LENS OPTIONS: 20mm to 100mm 30mm to 180mm 26mm to 105mm 25mm to 225mm 30mm to 150mm 20mm to 300mm



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

The Jaegar EVO2 is a high performance, multi sensor platform which utilises long range uncooled LWIR thermal sensors with a range of zoom lens options up to 20-300mm, alongside the latest low light HD visible sensors 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 9.31km (human)
- Uncooled 12μm LWIR thermal sensors with zoom lens options up to 20-300mm
- 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

Specifications may be subject to change without notice

*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 EVO2 300.

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JAEGAR RANGER EVO2 UNCOOLED LWIR THERMAL ZOOM LENS CAMERAS



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

THERMAL SENSOR	s	JPT-EVO2-100-W	JPT-EVO2-105-W	JPT-EVO2-150-W	JPT-EVO2-180-W	JPT-EVO2-225-W	JPT-EVO2-300-W	
Focal Length		20mm to 100mm	26mm to 105mm	30mm to 150mm	30mm to 180mm	25mm to 225mm	20mm to 300mm	
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)	22.0° (W) to 1.5° (T)	
F Number		F1.1	F1.6	F1.2	F1.2	F1.5	F1.5	
Optical Zoom (Continuous	s)	5x, Motorised	4x, Motorised	5x, Motorised	6x, Motorised	9x, Motorised	15x, Motorised	
Digital Zoom	gital 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 (co						
Image Processing		Non-Uniform	Non-Uniform Correction (NUC), noise filtering, polarity control, Digital Detail Enhancement (DDE), polarity: white hot / black hot, 18x colour palettes					
Housing Weight (Typical)		12Kg / 26.4lb 18.3Kg / 40.4lb					18.3Kg / 40.4lb	
Housing Size (Typical)		L572 x W258 x H226mm L580 x W282 x H257mm						
HD VISIBLE SENSOR	RS							
Focal Length	ocal 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	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)				t 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) ELECTRICAL AND MECHANICAL								
Pan Range / Velocity	360°	ontinuous / 0.002° up to 100.0° per second		Video Output	IP, ONVIF, RTSP			
Tilt Range / Velocity	-90° to +90° / 0.002° up to 100.0° per second			{Composite (PAL / NTSC) cost option} Integrated IP encoders provide simultaneous H.264 RSTP (H.265 cost option)				
Accuracy	0.0002° / 0.0035 mRad		Video over IP					
Repeatability	0.0002° / 0.0035 mRad		Ethernet	hernet 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 48VDC (36-72VDC)				
Presets	127x Preset positions, 16x preset tours		System Power	System Power Typical: 60W Consumption Peak: 170W (including thermal and visible sensor payloads) Housing Material Anodised aluminum, white powder marine grade paint finish (other colours are available upon request)				
Protocols	Pelco D, Pelco D Extended, ONVIF Profile S		Consumption			ensor payloads)		
Interface	RS485, ONVIF Profile-S, Serial <> IP		Housing Material					
Positioning	Absolute positioning feedback		IP Rating	IP67				
Through Shaft	Yes		Temperature Range	-30°C (-22°F) up to 65°C (149°F) (-40°C with optional heaters)				
PTU Weight (Typical)	28kg / 61.8lb (excluding mounts, through shaft, payloads) (payload capacity 50kg) H434 x W343x D343mm (excluding mounts, through shaft and payloads)			(),		,		
PTU Size (Typical)	H434 x W343x D	343mm (excluding mounts, thr	ougn snaft and payloads)					
OPTIONALLY AV	AILABLE							

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)

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PLEASE CONTACT US FOR A SPECIFIC CONFIGURATION

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