JAEGAR RANGER

HIGH PERFORMANCE PAN AND TILT UNIT HD LOW LIGHT VISIBLE ZOOM LENS SENSORS SD LWIR UNCOOLED THERMAL ZOOM LENS SENSORS



THERMAL SENSORS

Focal Length
Horizontal FOV
F Number
Optical Zoom (Continuous)
Digital Zoom
Focus
Detector Type
Spectral Band
Image Processing
Housing Weight (Typical)
Housing Size (Typical)

HD VISIBLE SENSOR

Focal Length
Horizontal FOV
F Number
Optical Zoom (Continuous)
Digital Zoom
Focus
Image Sensor
Min. Sensitivity
Image Processing

Housing Weight (Typical) Housing Size (Typical)

NexOS*

NexOS Core (Standard)

JAEGER PAN AND TILT

Pan Range / Velocity		
Tilt Range / Velocity		
Accuracy		
Repeatability		
Actuation		
Speed Control		
Presets Types		
Number of Presets		
Protocols		
Interface		
Positioning		
Through Shaft		
PTU Weight (Typical)	26	
PTU Size (Typical)	H434 x	

OPTIONALLY AVAILABLE

* Subject to payload types

The JAEGAR RANGER 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 sensor with a 15-500mm zoom lens.

The Nex@S EVO2 range employs the latest 12µm thermal sensor technology and has Nex@S intelligent capabilities as standard.

Combining advanced motor control technology along with harmonic drive gears, all Jaegar camera platforms are able to position our longest-range sensors accurately and quickly. This is complimented with advanced **Nex@S** features* such as electronic image stabilisation, CLAHE, and advanced focusing capabilities.

KEY FEATURES

- 640x512 12μm thermal sensors with zoom lens options up to 300mm
- HD visible sensor with a 15-500mm zoom lens
- Nex@S intelligence allows advanced image processing and motor control
- Nex@S Advanced Macros and Pelco Query Builder allow complex configurations
- Push, continuous and ROI autofocus, electronic image stabilisation and digital zoom (20x)
- 360° Continuous rotation with pan and tilt speeds between 0.001° and 200° per second
- High level of camera positioning accuracy: 0.0001° / 0.0017 mRad
- Unique cable managed, rapid release mechanism with precise bore sighting allowing a quicker installation in the field
- Ideally suited for single mast deployments such as mobile, border and maritime applications

RUGGEDISED Suitable for marine and extremely challenging environments



HIGH ACCURACY Designed for long range surveillance applications



RAPID RELEASE MECHANISM Allows quick changing and bore-sighting of payloads



NEXT GENERATION Unrivalled intelligence and hardware control from NexOS

PLEASE CONTACT US FOR A SPECIFIC CONFIGURATION

Above: Typical Jaegar Ranger, HD visible camera wiper optional (models will varv)

TECHNICAL SPECIFICATION

JPTX-EVO2-225-W	1	JPTX-EVO2-300-W			
25mm to 225mm		20mm to 300mm			
17.6° (W) to 2.0° (T)		22.0° (W) to 1.5° (T)			
F1.5		F1.5			
9x, Motorised		15x, Motorised			
	20x				
	autofocus, continuous autofocus, continuous autofocus with automatic ROI, manual Uncooled VOx microbolometer, ≤20mK (at 20°C, F1.0), 60Hz, 12µm, 640 x 512				
Unco					
	8 to 14μm (LWIR / 8 to 14μm) Correction (NUC), noise filtering, polarity control, Digital Detail Enhancement (DDE), 10x colour palettes (including white hot /black hot polarity)				
Correction (NUC), noise filtering, polar					
18.3kg / 40.3lb		25Kg / 55.1lb			
L740 x W298 x H249mr	n	L1000 x W319x H292mm			
	15.2mm to !	500mm			
	23.42° (W) to	0.78° (T)			
	F3.0 to F	532			
	33x, Moto	rised			
	20x				
Push autofocus, continuous autofocus, continuous autofocus with automatic ROI, manual					
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 @ 42dB Mono 0.002 lux F1.2 gain of up to 60dB / 0.0002 lux F1.2 / AGC @ 42dB (accumulation 25 times)					
	Digital noise r	eduction			
	17.5Kg/3	8.6lb			
	L740 x W298 x	H249mm			
		ncludes: atic ROI, digital zoom, image contrast enhancements, CLAHE, de-fog, ays, remote upgrades, remote diagnostics			
T (PTU)*	ELECTRICAL AND	MECHANICAL			
360° Continuous; 0.001° - 200° per second**	Video Output	RTSP, ONVIF from PTU (H.264, H.265 and MJPEG)			
-90° to +90°; 0.001° - 200° per second**	Ethernet	Command and control of all functions including streaming of			
0.0001° / 0.0017 mRad		H.264, H.265 and MJPEG video			
0.0001° / 0.0017 mRad	RS485	Pelco D command and control with custom procedural extensions			
Custom stepper motors	Boresight with Rapid Release Mechanism	Anodised aluminium, quick release bracket with micro adjustment boresight mechanism			
Zoom dependent speed control (subject to payload*)	Input Voltage	48VDC			
Procedural, Positional		Anodised aluminum, thermal and visible sensors (only) are nitrogen purged,			
255	Housing Material and	hydrophobic costing on visible sensor window			

Temperature Range

IP Rating

255 Pelco D. ONVIF Profile-S (custom available on request)

RS485, ONVIF Profile-S, Serial <> IP

Absolute positioning feedback

.4kg / 58.2lb (excluding mounts, brackets, through shaft and payloads) W275 x D336mm (excluding mounts, brackets, through shaft and payloads)

Wiper for visible sense

** Maximum pan and tilts speeds may be restricted depending on the payload types.



hydrophobic coating on visible sensor window, white powder marine grade paint finish (other colours are available upon request)

IP67

-32°C (-25°F) up to 65°C (149°F) (-40°C/°F with optional Cold Weather Pack)



UK Manufacturer