JAEGAR RANGER

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

Evo² Nexts

	ORS	JPTX-EVO2-100-W	JPTX-EVO2-105-W	JPTX-EVO2-150-W	JPTX-EVO2-180-W	JPTX-EVO2-225-W	JPTX-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)
Number		F1.1	F1.6	F1.2	F1.2	F1.5	F1.5
Optical Zoom (Continuo	us)	5x, Motorised	4x, Motorised	5x, Motorised	6x, Motorised	9x, Motorised	15x, Motorised
Digital Zoom				20	<		
ocus			Push autofocu	s, continuous autofocus, contir	uous autofocus with automa	atic ROI, manual	
Detector Type			Uncoole	d VOx microbolometer, ≤50mK	(at 25°C, F1.0), 50Hz, 12μm,	640 x 512	
pectral Band				7.5 to 14µm (LW	R / 8 to 14µm)		
mage Processing		Correct	ion (NUC), noise filtering, pola	arity control, Digital Detail Enha	ncement (DDE), polarity: wh	ite hot / black hot, 18x colour	palettes
lousing Weight (Typical)		18.3kg / 40.3lb					25Kg / 55.1lb
Housing Size (Typical)		L740 x W298 x H249mm					L1000 x W319x H292mn
HD VISIBLE SENS	SORS						
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		20x					
ocus			Push autofocu	s, continuous autofocus, contir	uous autofocus with automa	atic ROI, 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)		
mage Processing			(ingli sensitivity mode)	Digital noise	reduction	(accumulation 25 times)	
lousing Weight (Typical	n		17Kg / 37.5lb	Digital Holde	readentin	17.5Kg / 38.6lb	
Housing Size (Typical)		L740 x W298 x H249mm					
				L740 x W298	x H249mm		
NexOS*		Push autofi		NexOS Corr ontinuous autofocus with auto age stabilisation (2D), static ove	includes: natic ROI, digital zoom, imag rlays, remote upgrades, rem		AHE, de-fog,
NexOS* NexOS Core (Standard) NexOS Performance Pac	ck		electronic im	NexOS Core ontinuous autofocus with auto	includes: natic ROI, digital zoom, imag rlays, remote upgrades, rem S Core, includes: cation, event detection, dyr	ote diagnostics	-
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OPTIONALLY AVAILABLE

HD Low Light Visible Senso

- HD Ultra Low Light Visible Sens
- 4K Visible Senso
- Fechnologie
- Jaegar PTU Aux Payload Connecto
- Top Mount
- * Subject to payload types



NEXT GENERATION Unrivalled intelligence and hardware control from NexOS



Thermal camera detection ranges up to 9.31km (human) **

HD visible sensors with zoom lens options up to 2400mm

640x512 12µm thermal sensors with zoom lens options up to 300mm

Nex@S intelligence allows advanced image processing and motor control

High level of camera positioning accuracy: 0.0001° / 0.0017 mRad

Nex@S Advanced Macros and Pelco Query Builder allow complex configurations

360° Continuous rotation with pan and tilt speeds between 0.001° and 200° per second

Through shaft enabling fixed payloads to be mounted above the Jaegar PTU director

Ideally suited for single mast deployments such as mobile, border and maritime applications

System configuration and sensors can be chosen to suit the specific requirements

Push, continuous and ROI autofocus, electronic image stabilisation and digital zoom (20x) as standard

Unique cable managed, rapid release mechanism with precise bore sighting allowing a quicker installation in the field

HIGH ACCURACY Designed for long range surveillance 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 JPTX-EVO2-300-W.

The JAEGAR RANGER EVO2 is a high performance, multi sensor platform which utilises long range uncooled LWIR thermal sensors with a range of

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 video tracking, target classification, dynamic bore-sighting and gyro.

The Jaegar benefits from a fixed through shaft, which can enable payloads such as a RADAR to be mounted directly above the Jaegar PTU director.

zoom lens options up to 20-300mm, alongside the latest low light HD visible sensors with zoom lens options up to 20-2400mm.

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

THROUGH SHAFT Enables fixed payloads to be mounted above the Jaegar PTU



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



SILENTSENTINEL.COM

Suitable for marine and extremely

challenging environments

RUGGEDISED

* Requires the NexOS performance pack and the gyro options

KEY FEATURES

Specifications may be subject to change without notice 09/04/24 V4.2



Above: Typical Jaegar Ranger, wiper optional (models will vary)

TECHNICAL SPECIFICATION

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 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 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) Long range white light (up to 3.5km) or infra-red illuminators (up to 2.5km), laser illuminators long range acoustic hailer (up to 2km), digital magnetic compass, SWIR sensors, LRF (laser range finders) up to 20km, wiper for visible senso QTY 2x External connectors allowing for a selection of the following Power outputs -12vDC, 6A / 24vDC, 15A / 48vDC, 10A Network output – Cat5e, 10/100 Base T Top mount extension / plate (for RADAR or top mount payload)

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

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