JAEGAR SEARCHER HD

COOLED MWIR THERMAL ZOOM LENS CAMERAS 55mm to 550mm 75mm to 900mm 100mm to 1200mm 43.6mm to 785mm 55mm to 1000mm

Above: Typical Jaegar Searcher Mødels will vary.

The Jaegar Searcher HD is a high performance, multi sensor platform which utilises long range cooled MWIR HD thermal sensors with a range of zoom lens options up to 100-1200mm, alongside the latest low light HD visible sensor with zoom lens options up to 20-2400mm. The Searcher HD employs the latest 10µm thermal technology which has push autofocus and image stabilisation 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

- Ultra long range thermal camera detection ranges.
- Cooled 10µm MWIR HD thermal sensors with zoom lens options up to 100-1200mm
- 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



MOBILE DEPLOYMENTS Suitable for mobile and vehicle mounted applications

Specifications may be subject to change without notice 24/10/23 V4.7

SILENT SENTINEL INC VISION & MOTION CONTROL DUNS Number: 117572015 CAGE Code: 8NEE8

WWW.SILENTSENTINEL.COM +44 (0) 1920 871 734

JAEGAR SEARCHER HD COOLED MWIR THERMAL ZOOM LENS CAMERAS



Above: Typical Jaegar Searcher. Models will vary.

THERMAL SENSOR	S JP	T-SEARCHER-HD-550-W	JPT-SEARCHER-HD-785-W	JPT-SEARCHER-HD-900	I-W JPT-SEARCHER-HD-1000-W	JPT-SEARCHER-HD-1200-W	
Focal Length		55mm to 550mm	43.6mm to 785mm	75mm to 900mm	55mm to 1000mm	100mm to 1200mm	
Horizontal FOV		13.3°(W) to 1.3°(T)	16.6°(W) to 0.9°(T)	9.8°(W) to 0.82°(T)	13.3°(W) to 0.7°(T)	7.3°(W) to 0.6°(T)	
F Number		F4.0	F4.0	F4.0	F4.0	F4.0	
Optical Zoom (Continuous)		10x, Motorised	18x, Motorised	12x, Motorised	18x, Motorised	12x, Motorised	
Digital Zoom				8x			
Focus		Push autofocus, manual					
Detector Type		XBn, 20mK (NETd) @ room temperature, <30mK (Temporal NETd) @ room temperature, 30Hz, 10μm, HD (1280 x 1024) {extended 50,000 hour (MTBF) cooler is a cost option}					
Spectral Band		3 to 5μm (MWIR)					
Image Stabilization		Yes, electronic image stabilisation (cost option)					
ATCOM		ATCOM (cost option) Includes turbulence mitigation, electronic image stabilisation, LACE and super resolution					
Image Processing		Adaptive histogram equalization, linear AGC, manual gain and offset, sharpness control, edge enhancement, 7x colour palette options including monochrome					
Housing Weight (Typical)		7kg / 15.5lb	14kg / 31.5lb	14.5kg / 32lb 22.7g / 50lb		29kg / 64lb	
Housing Size (Typical) L4		79mm (excluding bracket)	L645mm (excluding bracket)	L622mm (excluding brack	ket) L750mm (excluding bracket)	L940mm (excluding bracket)	
HD VISIBLE SENSO	RS						
Focal Length		15.2mm to 500mm	16.7mm to 1000mm {to 2000mm with (x2) extender}				
Horizontal FOV 23		23.42° (W) to 0.78° (T)	21.2° (W) to 0.45° (T) {to 0.23° (T) with (x2) extender}				
F-Number		F3.0 to F32	F3.5 to F16 {to F32 with (x2) extender}				
Optical Zoom (Continuous)		33x, Motorised	60x, Motorised {120x with (x2) extender}				
Digital Zoom							
Focus			Push autofocus, manual				
Image Sensor			1/1.9" CMOS Sensor (2.38MP), full HD 1080p (1920 x 1080)				
Min. Sensitivity			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, ele		electronic image stabilisation (cost option)	Yes, electronic image stabilisation or optical image stabilisation (cost options)				
Other Features			Defog, digital noise reduction				
Housing Weight (Typical)		14Kg / 30.9lb	17Kg / 37.4lb				
Housing Size (Typical)		L572 x W258 x H231mm	L800 x W258 x H231mm				
JAEGER PAN AN	D TILT UNIT (PTL)		ELECTRICAL AND M	ECHANICAL		
Pan Range / Velocity 360° continuous / 0.002° up to		° continuous / 0.002° up to 100					
ilt Range / Velocity -90		° to +90° / 0.002° up to 100° per second		video output	{Composite (PAL / NTSC) cost option}		
Accuracy	curacy		0.0002° / 0.0035 mRad		Integrated IP encoders provide simultaneous H.264 RSTP (H.265 cost option)		
Repeatability	eatability		0.0002° / 0.0035 mRad			nmand and control of all functions including streaming of H.264 streams	
ctuation		Custom stepper motors		Ethernet RS485		Command and control of all functions and firmware upgrade	
Speed Control	eed Control		Zoom dependent speed control			Nominal 48VDC (36-72VDC)	
Presets 12		7x Preset positions, 16x preset tours		Input Voltage System Power		Typical: 60W	
Protocols Pelco		co D, Pelco D Extended, ONVIF Profile S		Consumption	Peak: 170W (including thermal and		
Interface	RS485, ONVIF Profile-S, Seri		al <> IP	Anodised aluminum, white powder marine grade paint finish			
Positioning	Absolute positioning feed		back	Housing Material		(other colours are available upon request) (Cooled camera housing is cromate conversion coated aluminum,	
Through Shaft	Yes				dry nitrogen bad	dry nitrogen backfilled)	
PTU Weight (Typical)			loads) (payload capacity 50kg)	IP Rating	IP67		
PTU Size (Typical)	e (Typical) H434 x W343x D343mm (excluding mounts, th		rough shaft and payloads)	Temperature Range	-30°C (-22°F) up to 65°C (149°F) (-4	-30°C (-22°F) up to 65°C (149°F) (-40°C with optional heaters)	
OPTIONALLY AV	AILABLE						
HD Low Light Visible Sensor		4.3mm to 129mm (63.7° W to 2.32° T) 1/2.8″ CMOS Sensor (2.13MP), full HD (1920 x 1080), colour 0.01 lux and mono 0.0008 lux (in high sensitivity mode)					
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				

PLEASE CONTACT US FOR A SPECIFIC CONFIGURATION

WWW.SILENTSENTINEL.COM +44 (0) 1920 871 734

(4 slots) Top Mount

E

Top mount extension / plate (for RADAR or top mount payload)

Specifications may be subject to change without notice 24/10/23 V4.7

SILENT SENTINEL INC VISION & MOTION CONTROL DUNS Number: 117572015 CAGE Code: 8NEE8