

JAEGAR & Radar

SHARP^{Eye} SxV
LIGHTWEIGHT RADAR

CxEye
DISPLAY & INTERFACE

KELVIN HUGHES
surveillance

One mast total surveillance solution

The Jaegar PT combined with long range radar provides a fully integrated surveillance system with best in class X-Band radar.

The unit gives 360° coverage with radar man detection out to 5000m. Multiple options of thermal and HD or SD video cameras provide video verification of any target detected and the cameras will track the target as it moves. The system can be located on one mast ensuring there are no blind spots.

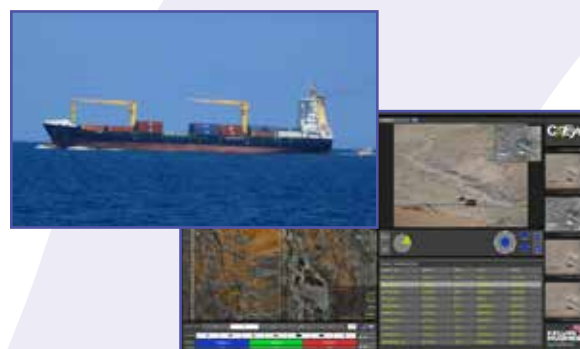
The SxV lightweight radar is a coherent wide area surveillance radar built upon proven X-Band SharpEye™ solid state transceiver technology. Ultra high reliability, “fit-and-forget” design concept and high detection performance make it an ideal solution for a wide range of applications. With its doppler processing, it can eliminate most land clutter allowing for better surveillance of potential threats.

The CxEye™ control software is easy to operate and will display targets on a geo-referenced map display. This combined with the cameras and radar enables a Detect, Recognise, Identify and Classify methodology. CxEye™ will control multiple radars and cameras from one screen, meaning the system is modular and scalable. Integrated E/O sensors can be cued to radar targets.

Silent Sentinel have teamed-up with radar manufacturer Kelvin Hughes, to produce a truly exceptional surveillance system that is easy to deploy and control.

Key features:

- X-Band radar, 360° coverage
- One mast solution
- Long range thermal detection
- Cooled or uncooled thermal
- HD or SD video option including IP or HD-SDI
- Optical zoom lens on thermal camera
- IP67 environmental protection (IP68 option)
- Absolute positioning feedback
- 360° continuous rotation
- Harmonic drive zero backlash gears



The Silent Sentinel Range

Silent Sentinel offer an extensive range of camera and lens configurations to meet your exact surveillance requirements.

Contact customer service for more information on our full range of products and bespoke design and build services.

Tel: + 44 (0)1992 558 093
www.silentsentinel.com



OCULUS



AERON



OSIRIS



JAEGAR

- Concurrent long and short range detection
- Low power consumption: 150W
- 360° and sector scanning
- Versatile mast and mount options
- Graceful degradation
- Integrated transceiver and GPS
- Pulsed, coherent waveforms

- Jamming/Interference resilient (RF frequency variation)
- Adaptive clutter suppression dopler proc./pulse compression
- 522mm rotating patch array antenna
- Gigabit ethernet output
- Asterix CAT 240 radar video and CAT 253 control
- Continuous system health monitor and built-in self test
- Environmental resilience: IP67 -25°C to +55°C operating temperature

Jaegar Scout

Video type	SD	HD	Video type	Thermal
Optical zoom	36x	30x	Sensor type	Uncooled VOx Microbolometer
Digital enlargement	12x (432x combined)	12x (360x optical zoom)	Pixel size	17 µ
Image sensors	1/4" Exview CCD	1/2.8" - Type Exmor CMOS sensor	Spectral band	8-14 µm
Resolution	520TVL	Approx 3.27 million	Thermal sensitivity	<50mK
Signal system	PAL	HD: 1080p/SD: NTSC/PAL	Array format	320x240
Lens (wide to tele)	F=3.4mm to 122mm F1.6 to F4.5	f=4.3mm to 129mm F1.6 to F4.7	Frame rates	9Hz, 25Hz
Angle of view - horizontal	58.° (W) to 1.7° (T)	54.1° (W) to 2.9° (T)	Image control	White hot, Black hot, Invert
Minimum illumination (S0IRE)	1.4 lux Colour, 0.01 lux Mono	1.7 lux, 0.01 lux in high sens mode	Focus	Fixed, preset, Athermalised
Video output	Composite	Digital	Zoom	E-zoom 1-4, Region of interest
			FOV	9°-35mm f1.2
			Video output	Composite

Jaegar Ranger

Video type	SD	HD	Video type	Thermal
Optical zoom	36x	30x	Sensor type	Uncooled VOx Microbolometer
Digital enlargement	12x (432x combined)	12x (360x optical zoom)	Pixel size	17µ
Image sensors	1/4" Exview CCD	1/2.8" - Type Exmor CMOS sensor	Spectral band	8-14µm
Resolution	520TVL	Approx 3.27 million	Thermal sensitivity	<50mK
Signal system	PAL	HD: 1080p/SD: NTSC/PAL	Array format	640x480
Lens (wide to tele)	F=3.4mm to 122mm F1.6 to F4.5	f=4.3mm to 129mm F1.6 to F4.7	Frame rates	9Hz, 25Hz
Angle of view - horizontal	58.° (W) to 1.7° (T)	54.1° (W) to 2.9° (T)	Image control	White hot, Black hot, Invert
Minimum illumination (S0IRE)	1.4 lux Colour, 0.01 lux Mono	1.7 lux, 0.01 lux in high sens mode	Focus	Fixed, preset, Athermalised
Video output	Composite	Digital	Zoom	E-zoom 1-4, Region of interest
			FOV	6° - 100mm f1.6
			Video output	Composite

Jaegar Searcher

Video type	SD	HD	Video type	Thermal
Optical zoom	33x	33x	Sensor type	Uncooled VOx Microbolometer
Image sensors	1/2" CCD	1/3" 2 MP	Pixel size	17µ
Resolution	650TVL	900 TVL	Spectral band	8-14µm
Signal system	PAL	Digital	Thermal sensitivity	<50mK
Lens (wide to tele)	f=16mm - 528mm	f=15mm - 500mm	Array format	640x480
Angle of view - horizontal	22.4° (W) to 0.7° (T)	23.4° (W) to 0.74° (T)	Frame rates	9Hz, 25Hz
Minimum illumination (S0IRE)	0.1 lux (+1.4)	1.6 lux	Image control	White hot, Black hot, Invert
Video output	Composite	Digital	Focus	Fixed, preset, Athermalised
			Zoom	E-zoom 1-4, Region of interest
			FOV	2.8° - 24.5° 25-225mm f/1.5
			Video output	Composite

Common features

Tilt range	+90° to -90°
Limits	Fixed hard and adjustable limits
Motor type	Stepper motor drive
Position encoders	Optical
Position feedback	0.01°
Repeatability	0.009°
Presets	127
Protocols	Pelco D, Pelco D, SSP
Parameter programming	via RS485 or RS422

Compass heading	Cardinal point and/or degrees
Operating temperature	-30°C to 65°C (-40°C with optional heater)
Ingress protection rating	IP67
Housing material	Cast aluminium
Housing finish	Xylan undercoat with epoxy powder finish
Fixings material	Stainless steel
Operating voltage	24-30VDC 3.5A
Connector	Mil spec multiway

Ordering information

Product code	Product description
JPRL-PSCOUT-FB	Jaegar Scout-RL+ Long Range Radar (5000m Range) Black
JPRL-PSCOUT-FW	Jaegar Scout-RL+ Long Range Radar (5000m Range) White
JPRL-PRANGER-FB	Jaegar Ranger-RL+ Long Range Radar (5000m Range) Black
JPRL-PRANGER-FW	Jaegar Ranger-RL+ Long Range Radar (5000m Range) White
JPRL-PSEARCHER-FB	Jaegar Searcher-RL+ Long Range Radar (5000m Range) Black
JPRL-PSEARCHER-FW	Jaegar Searcher-RL+ Long Range Radar (5000m Range) White
JPRL-HSCOUT-FB	Jaegar HD Scout-RL+ Long Range Radar (5000m Range) Black
JPRL-HSCOUT-FW	Jaegar HD Scout-RL+ Long Range Radar (5000m Range) White
JPRL-HRANGER-FB	Jaegar HD Ranger-RL+ Long Range Radar (5000m Range) Black
JPRL-HRANGER-FW	Jaegar HD Ranger-RL+ Long Range Radar (5000m Range) White
JPRL-HSEARCHER-FB	Jaegar HD Searcher-RL+ Long Range Radar (5000m Range) Black
JPRL-HSEARCHER-FW	Jaegar HD Searcher-RL+ Long Range Radar (5000m Range) White

Other thermal options available.



Designed and manufactured in the UK.

Detection, recognition and identification range charts

