

AERON SEARCHER

COOLED MWIR THERMAL ZOOM LENS OPTIONS:

19mm to 275mm

15mm to 300mm



Above: Aeron Searcher 15-300mm with gyro stabiliser. Other models will vary.

The Aeron Searcher is an accurate, rugged, continuous rotation dual sensor PTZ camera utilising a cooled MWIR thermal sensor with a range of zoom lenses up to 300mm and a HD visible sensor.

These camera sensors are housed within the Aeron's rugged enclosure, which also provides fast and accurate camera positioning. Tested to an IP67 level of environmental protection and hard anodised, the Aeron can be used in the most harsh and challenging applications such as maritime, border security and vehicle mount installations.

KEY FEATURES

- Thermal camera detection* ranges up to 10.97km (human) and 20.1km (vehicle)
- Cooled MWIR 15µm, 25mK thermal sensors with zoom lens options up to 300mm
- Image stabilisation and push autofocus as standard on the thermal.
- 30x zoom HD visible sensor with a wiper as standard
- 360° continuous rotation with pan and tilt speeds up to 160° per second
- High levels of camera positioning accuracy: 0.01°
- Absolute feedback, virtually zero backlash with automatic self position correction
- Compact and ruggedised for extreme and marine environments
- IP67 rating
- Mounting options include inverted, upright or inclined
- Suitable for mobile and vehicle mounted applications



WIPER AS STANDARD

The visible HD camera comes with a wiper as standard



COOLED SENSORS

Allows long range performance from a compact PTZ



360° ROTATION

The Aeron Searcher offers continuous 360° rotation

* Ranges are based upon 50% probability on a MODTRAN standard atmosphere. Detailed NVIPM calculation notes available upon request.

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COOLED MWIR THERMAL ZOOM LENS CAMERAS



Above: Aeron Searcher 15-300mm with gyro stabiliser. Other models will vary.

THERMAL SENSOR – 640 x 512, 15µm PIXEL PITCH

Part Number	SEARCHER-275	SEARCHER-300
Focal Length	19 to 275mm	15 to 300mm
Field of View	28.3° (W) to 2.0° (T)	35.5° (W) to 1.83° (T)
Optical Zoom	14.5x, motorised	20x, motorised
F Number	F5.5	F4.0
Cooler MTBF	10,000 hours	20,000 hours
Detector Type	Cooled InSb FPA, Cooled downtime <10 Minutes, 6 minutes typical	
Sensitivity	<25 mK [NETd] at room temperature	
Resolution	640 x 512, 15µm	
Spectral Band	3.4 to 5.1 µm (MWIR)	
Frequency	25Hz [30Hz option]	
Focus	Push auto focus and manual focus	
Digital Zoom	4x digital zoom	
Image Stabilisation	Yes, electronic	
Image Processing	Linear AGC, CLAHE, LAP, noise reduction, sharpen, alpha-blend. Palettes: Black-hot, white-hot, rainbow etc	

HD VISIBLE SENSOR

Focal Length	4.3mm to 129mm
Image Sensor	1/2.8" CMOS Exmor [2.13MP], full HD 1080p [1920 x 1080]
F-Number	F1.6 to F4.7
Horizontal FOV	63.7° (W) to 2.32° (T)
Optical Zoom	30x
Digital Zoom	12x
Focus	Automatic, manual
Min. Sensitivity	Colour 0.01 lux, mono 0.0008 lux [high sensitivity mode]
Other Features	De-fog, digital noise reduction, WDR, image stabilisation, boresight adjustment

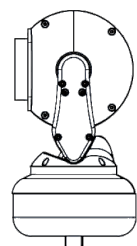
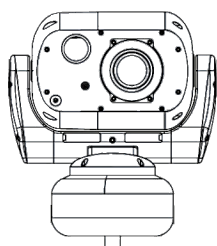
AERON PAN & TILT UNIT

Pan Range; Pan Velocity	360° continuous; 0.01° to 160.0° per second
Tilt Range; Tilt Velocity	-30° to +90°; 0.01° to 160.0° per second (upright) -90° to +30°; 0.01° to 160.0° per second (inverted) -68° to +90°; 0.01° to 160.0° per second (inclined)
Accuracy	0.01° / 0.17 mRad
Repeatability	0.05° / 0.87 mRad
Actuation	Custom stepper motors

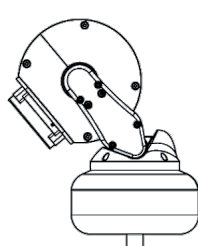
PART CODES

RC4-51YJ30X-IB19Z275FW	Aeron Searcher 275, IP, 640x512, 15µm, 25Hz thermal camera with a 19-275mm, F5.5 thermal zoom lens, and a HD, 4.3-129mm (30x optical zoom lens) video camera
RC4-51YJ30X-IB15Z300FW	Aeron Searcher 300, IP, 640x512, 15µm, 25Hz thermal camera with a 15-300mm, F4.0 thermal zoom lens, and a HD, 4.3-129mm (30x optical zoom lens) video camera
Options	All optional modules, cable and ancillary part numbers are available upon request

TYPICAL AERON COMPACT PTZ CAMERA*

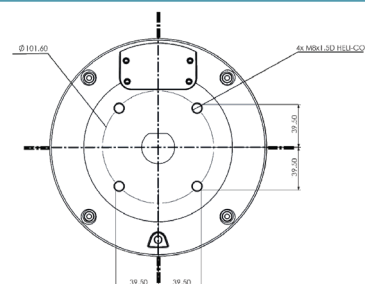


[Upright / Inverted]



[Inclined]

Aeron Fixing Points
(base of the Aeron with an industry standard 4" PCD mount)



* Illustrations are indicative and subject to the final configuration/model.

Specifications may be subject to change without notice.
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WWW.SILENTSENTINEL.COM
+44 (0) 1920 871 734



UK Manufacturer

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VISION & MOTION CONTROL