

AERON SEARCHER

**COOLED MWIR THERMAL ZOOM LENS :
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 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 up to 300mm
- Image stabilisation and push autofocus as standard
- 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 HD visible sensor features the 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.

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



Specifications may be subject to change without notice.
05/13/21 V4.1

SILENT SENTINEL INC
VISION & MOTION CONTROL

DUNS Number: 117572015
CAGE Code: 8NEE8

AERON SEARCHER

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-300
Focal Length	15 to 300mm
Field of View	35.5° (W) to 1.83° (T)
Optical Zoom	20x, motorised
F Number	F4.0
Cooler MTBF	20,000 hours
Detector Type	Cooled T2SL HOT; Stirling cycle, cool down time <10 Minutes, 6 minutes typical
Sensitivity	<25 mK (NETD) at room temperature
Resolution	640 x 512, 15µm
Spectral Band	3.6 to 4.5µm (MWIR)
Frequency	60Hz
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

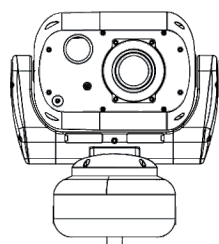
AERON PAN & TILT UNIT

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

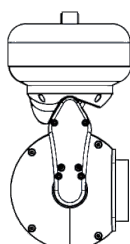
PART CODES

RC4-51YJ30X-IHB15Z300FW	Aeron Searcher 300, IP, 640x512, 15µm, 60Hz 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 features, modules, cable and ancillary part numbers are available upon request

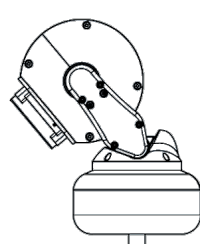
TYPICAL AERON COMPACT PTZ CAMERA*



[Upright]

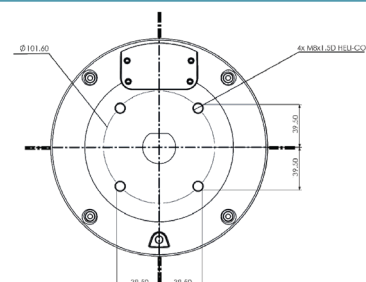


[Inverted]



[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.
05/13/21 V4.1

WWW.SILENTSENTINEL.COM

+44 (0) 1920 871 734



SILENT SENTINEL INC
VISION & MOTION CONTROL

DUNS Number: 117572015
CAGE Code: 8NEE8