

# AERON SCOUT

## UNCOOLED LWIR THERMAL FIXED LENS OPTIONS:

65mm

100mm



Above: Aeron Scout 65mm.  
Other models will vary.

The Aeron Scout is an accurate, rugged, continuous rotation dual sensor PTZ camera utilising an uncooled LWIR thermal sensor with a range of fixed lenses up to 100mm 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 mounted installations.

## KEY FEATURES

- Thermal camera detection\* ranges up to 2.2km (human) and 6.7km (vehicle)
- Uncooled LWIR thermal sensors with fixed lens options up to 100mm
- 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



### FLEXIBLE MOUNTING

Options include inverted, upright, or inclined



### WIPER AS STANDARD

The visible HD camera comes with a wiper as standard



### VEHICLE APPLICATIONS

The Aeron is often paired with our gyro stabiliser and used for mobile applications

\*Johnsons Criteria, (Human at 1.8m x 0.5m, vehicle at 2.3m², Detection at 2 pixels, Recognition at 8 pixels and Identification at 13 pixels. 50% probability subject to environmental conditions)

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UK Manufacturer

Specifications may be subject to change without notice.  
All photos show different models of the Aeron range.  
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**SILENT SENTINEL**  
VISION & MOTION CONTROL

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## UNCOOLED LWIR THERMAL FIXED LENS CAMERAS



Above: Aeron Scout 65mm.  
Other models will vary.

### THERMAL SENSOR – 640 x 480, 17µm PIXEL PITCH

Part Number	SCOUT-65	SCOUT-100
Focal Length	65mm	100mm
Field of View	9.6°	6.2°
Optical Zoom	-	-
F Number	F1.2	F1.6
Sensitivity	<50 mK (NETD) f/1.0 at room temperature	
Detector Type	Uncooled VOx microbolometer	
Resolution	640 x 480, 17µm	
Spectral Band	8 to 14 µm (LWIR)	
Frequency	25Hz (9Hz, 30Hz options)	
Focus	Fixed	
Digital Zoom	4x Digital zoom (8x optional)	
Image Stabilisation	Yes, electronic (optional at cost)	
Image Processing	Polarity control, tunable contrast enhancement	

### 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

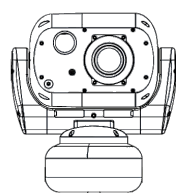
### AERON PAN AND TILT UNIT

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

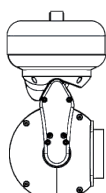
### PART CODES

RC4-511YJ30X-DB09FW	Aeron Scout 65, IP, 640x480, 17µm, 25Hz thermal camera with a 65mm, F1.2 thermal lens, and a HD, 4.3-129mm [30x optical zoom lens] video camera, white colour
RC4-511YJ30X-DB06FW	Aeron Scout 100, IP, 640x480, 17µm, 25Hz thermal camera with a 100mm, F1.6 thermal lens, and a HD, 4.3-129mm [30x optical zoom lens] video camera, white colour
Options	All optional features, modules, cable and ancillary part numbers are available upon request

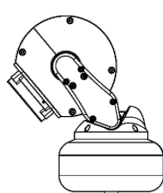
### TYPICAL AERON COMPACT PTZ CAMERA



[Upright]

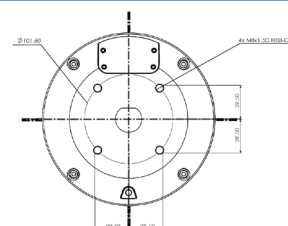


[Inverted]



[Inclined]

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



### IMAGE PRESENTATION

Video Output	IP, ONVIF, RTSP (Composite (PAL / NTSC) and HD-SDI are cost options)
Video over IP	Integrated IP encoders provide simultaneous H.264 RSTP (H.265 optional) and ONVIF Profile-S

### TELEMETRY

Presets	127x Preset positions, 16x preset tours
Protocols	Pelco D, Pelco D Extended, ONVIF Profile-S
Interface	RS485, ONVIF Profile-S, Serial <-> IP
Positioning	Absolute positioning feedback

### INTERFACES

Ethernet	Command and control of all functions incl. streaming of H.264 Video (ONVIF)
RS485	Command and control of all functions and firmware upgrade

### ELECTRICAL AND MECHANICAL

Input Voltage	Nominal 28VDC (24-32VDC)
Power Consumption	Typical: 60W, peak: 100W (with heater)
Housing Material	Anodised aluminium, white powder marine grade paint finish (other colours are available upon request)
Camera Weight	10.6kg / 23.3lb
Camera Turning Diameter	340mm / 13.40" normal - 370mm / 14.57" offset
Height	370mm / 14.57" normal - 340mm / 13.86" offset

### ENVIRONMENTAL

IP Rating	IP67
Temperature Range	-30°C (-22°F) up to 65°C (149°F) (-40°C with optional heater)

### OPTIONS

Automatic Tracking	Hardware based target acquisition and tracking capability.
Stabilisation	Electronic image stabilisation (for the thermal)
GYRO	2-AXIS GYRO stabilisation
4K Visible Camera	4K colour camera, 4.4-88.4mm Lens, 20x optical zoom, 12x digital zoom, colour 0.4 lux; colour 0.06 lux (slow shutter on). Replaces HD visible camera
Storage	Up to 64GB in total via SD/MMC (32GB available per channel if using thermal and video / 2x cameras)