



AERON EVO2

UNCOOLED LWIR THERMAL FIXED AND ZOOM LENS OPTIONS:

55mm	25 to 75mm
100mm	26 to 105mm
	25 to 150mm



Above: Aeron EVO2 26-105mm.
Other models will vary.

The EVO2 range utilises the very latest in both thermal sensor and lens technology, providing advanced surveillance capabilities in the most extreme conditions. Available with either zoom or fixed field of view lenses, the Aeron EVO2 range is fitted with a thermal sensor that has a resolution of **640 x 512 (12µm)**.

The Aeron EVO2 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 zoom lenses (up to 25-150mm).

The 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

- Uncooled LWIR thermal sensors:
 - Fixed lens options up to 100mm
 - Zoom lens options up to 25-150mm
- 30x zoom HD visible sensor with a wiper as standard
- 360° continuous rotation with pan and tilt speeds up to 160° per second
- High level 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



360° ROTATION

The Aeron EVO2 offers continuous 360° rotation

Specifications may be subject to change without notice.
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UK Manufacturer



a Motorola Solutions Company



AERON EVO2

UNCOOLED LWIR THERMAL FIXED / ZOOM LENS CAMERAS



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THERMAL IMAGER – 640 x 512, 12µm PIXEL PITCH

Part Number	RC4-51IYJ30X-FB08FW	RC4-51IYJ30X-FB04FW	RC4-51IYJ30X-FB25Z75FW	RC4-51IYJ30X-FB26Z105FW	RC4-51IYJ30X-FB25Z150FW
Focal Length	55mm	100mm	25 to 75mm (3x optical zoom)	26 to 105mm (4x optical zoom)	25 to 150mm (6x optical zoom)
Horizontal Field of View	8.0°	4.4°	17.6° (W) to 5.9° (T)	16.9° (W) to 4.2° (T)	17.6° (W) to 2.9° (T)
F Number	F1.0	F1.0	F1.2	F1.6	F1.4
Focus	Fixed		Autofocus, manual		

THERMAL SENSOR

Sensitivity	≤20mK at 20°C, F1.0
Detector Type	Uncooled VOx microbolometer
Spectral Band	8 to 14µm (LWIR) / 8 to 14µm
Frequency	60Hz
Digital Zoom	1x to 8x
Image Processing	Non-Uniform Correction (NUC), noise filtering, polarity control, Digital Detail Enhancement (DDE)
Image Control	10x colour palettes (including white hot /black hot polarity) Orientation: Invert / revert

HD VISIBLE SENSOR

Focal Length	4.3 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° per second
Tilt Range; Tilt Velocity	-30° to +90°; 0.01° to 160° per second (upright) -90° to +30°; 0.01° to 160° per second (inverted) -68° to +90°; 0.01° to 160° per second (inclined)
Accuracy	0.01° / 0.17 mRad
Repeatability	0.05° / 0.87 mRad
Actuation	Custom stepper motors
Interfaces	Ethernet (control + video), RS485 (control and firmware upgrade)

PART CODES

RC4-51IYJ30X-FB08FW	Aeron EVO2 featuring a 640x512, 12µm, 60Hz, LWIR, 55mm F1.0 fixed lens uncooled thermal camera, and a HD, 4.3-129mm (30x) zoom lens visible camera, white colour
RC4-51IYJ30X-FB05FW	Aeron EVO2 featuring a 640x512, 12µm, 60Hz, LWIR, 100mm F1.0 fixed lens uncooled thermal camera, and a HD, 4.3-129mm (30x) zoom lens visible camera, white colour
RC4-51IYJ30X-FB25Z75FW	Aeron EVO2 featuring a 640x512, 12µm, 60Hz, LWIR, 25-75mm F1.2 zoom lens uncooled thermal camera and a HD, 4.3-129mm (30x) zoom lens visible camera, white colour
RC4-51IYJ30X-FB26Z105FW	Aeron EVO2 featuring a 640x512, 12µm, 60Hz, LWIR, 26-105mm F1.6 zoom lens uncooled thermal camera and a HD, 4.3-129mm (30x) zoom lens visible camera, white colour
RC4-51IYJ30X-FB25Z150FW	Aeron EVO2 featuring a 640x512, 12µm, 60Hz, LWIR, 25-150mm F1.4 zoom lens uncooled thermal camera and a HD, 4.3-129mm (30x) zoom lens visible camera, white colour

IMAGE PRESENTATION

Video Output	IP, ONVIF, RTSP
Video over IP	Integrated IP encoders provide simultaneous H.264 RSTP 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

ELECTRICAL AND MECHANICAL

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

ENVIRONMENTAL

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

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