

# EVO2 THERMAL CAMERAS

UNCOOLED THERMAL ZOOM LENS 640x512 SENSORS

\* Illustration indicative & subject model

## THERMAL IMAGER

Part Number	RHT07IEB20Z100FW	RHT07IEB26Z105FW	RHT07IEB30Z150FW	RHT07IEB30Z180FW	RHT07IEB25Z225FW	RHT07IEB20Z300FW
Focal Length	20mm to 100mm	26mm to 105mm	30mm to 150mm	30mm to 180mm	25mm to 225mm	20mm to 300mm
Horizontal Field of View	22° (W) to 4.4° (T)	16.9° (W) to 4.2° (T)	14.7° (W) to 2.9° (T)	14.7° (W) to 2.4° (T)	17.6° (W) to 2.0° (T)	22.0° (W) to 1.5° (T)
F Number	F1.1	F1.6	F1.2	F1.2	F1.5	F1.5
Optical Zoom (Continuous)	5x, Motorised	4x, Motorised	5x, Motorised	6x, Motorised	9x, Motorised	15x, Motorised
Digital Zoom	1x to 8x (0.1 steps)					
Focus	Push autofocus, manual					
Detector Type	Uncooled VOx microbolometer, ≤50mK (at 25°C, F1.0), 50Hz, 12µm, 640 x 512					
Spectral Band	7.5 to 14µm (LWIR) / 8 to 14µm					
Image Stabilisation	Yes, electronic image stabilisation (cost option)					
Image Processing	Non-Uniform Correction (NUC), noise filtering, polarity control, Digital Detail Enhancement (DDE), polarity: white hot / black hot, 18x colour palettes					

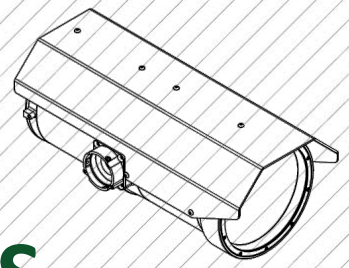
## ELECTRICAL AND MECHANICAL

Rapid Release Mechanism	Yes	
Video Output	IP, ONVIF, RTSP	
IP Rating	IP67	
Temperature Range	-30°C (-22°F) Up to 65°C (149°F) (-40°C with optional heater)	
Power	28-32vDC, 20W, 33W Peak (with heater at +25W)	
Fixing Material	Stainless steel with external fall protection	
Housing Material and Finish	Anodised aluminum, white powder marine grade paint finish (other colours are available upon request)	
Housing Model	HT07	HT07-300LR
Weight (Typical)	12Kg / 26.4lb	18.3Kg / 40.4lb
Dimensions (Typical)	L572 x W258 x H226mm	L580 x W282 x H257mm
Compatible PTU's	Osiris PTU and Jaegar PTU	Jaegar PTU only

## PART CODES

RHT07IEB20Z100FW	EVO2 Thermal IP camera, with a 20-100mm, F1.1 thermal zoom lens and array format of 640x512, 12µm, 50Hz, white colour
RHT07IEB26Z105FW	EVO2 Thermal IP camera, with a 26-105mm, F1.6 thermal zoom lens and array format of 640x512, 12µm, 50Hz, white colour
RHT07IEB30Z150FW	EVO2 Thermal IP camera, with a 30-150mm, F1.2 thermal zoom lens and array format of 640x512, 12µm, 50Hz, white colour
RHT07IEB30Z180FW	EVO2 Thermal IP camera, with a 30-180mm, F1.2 thermal zoom lens and array format of 640x512, 12µm, 50Hz, white colour
RHT07IEB25Z225FW	EVO2 Thermal IP camera, with a 25-225mm, F1.5 thermal zoom lens and array format of 640x512, 12µm, 50Hz, white colour
RHT07IEB20Z300FW	EVO2 Thermal IP camera, with a 20-300mm, F1.5 thermal zoom lens and array format of 640x512, 12µm, 50Hz, white colour
Options	All optional features, modules, cable and ancillary part numbers are available upon request





# EVO2 HD THERMAL CAMERAS

UNCOOLED THERMAL ZOOM LENS 1280x1024 SENSORS

\* Illustration indicative & subject model

## THERMAL IMAGER

Part Number	RHT07IED25Z75FW	RHT07IED30Z150FW	RHT07IED25Z225FW	RHT07IED30Z300FW
Focal Length	25mm to 75mm	30mm to 150mm	25mm to 225mm	30mm to 300mm
Horizontal Field of View	36.7° (W) to 11.5° (T)	28.7° (W) to 5.9° (T)	34.2° (W) to 3.9° (T)	29.0° (W) to 2.9° (T)
F Number	F1.2	F1.2	F1.5	F1.35
Optical Zoom (Continuous)	3x, Motorised	5x, Motorised	9x, Motorised	10x, Motorised
Digital Zoom	1x to 4x (0.1 steps)			
Focus	Push autofocus, manual			
Detector Type	Uncooled VOx microbolometer, ≤50mK (at 25°C, F1.0), 30Hz, 12µm, HD (1280 x 1024)			
Spectral Band	7.5 to 14µm (LWIR / 8 to 14µm)			
Image Stabilisation	Yes, electronic image stabilisation (cost option)			
Image Processing	Non-Uniform Correction (NUC), noise filtering, polarity control, Digital Detail Enhancement (DDE), polarity: white hot / black hot, 18x colour palettes			

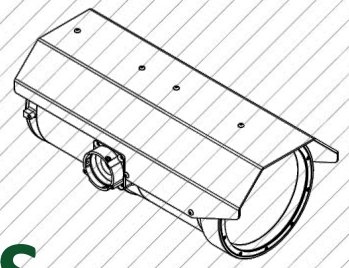
## ELECTRICAL AND MECHANICAL

Rapid Release Mechanism	Yes		
Video Output	IP, ONVIF, RTSP		
IP Rating	IP67		
Temperature Range	-30°C (-22°F) Up to 65°C (149°F) (-40°C with optional heater)		
Power	28-32vDC, 20W, 33W Peak (with heater at +25W)		
Fixing Material	Stainless steel with external fall protection		
Housing Material and Finish	Anodised aluminum, white powder marine grade paint finish (other colours are available upon request)		
Housing Model	HT07	HT07-300LR	
Weight (Typical)	12Kg / 26.4lb	18.3Kg / 40.4lb	
Dimensions (Typical)	L572 x W258 x H226mm	L580 x W282 x H257mm	
Compatible PTU's	Osiris PTU and Jaegar PTU	Jaegar PTU only	

## PART CODES

<b>RHT07IED25Z75FW</b>	EVO2 HD Thermal IP camera, with a 25-75mm, F1.2 thermal zoom lens and array format of 1280x1024, 12µm, 30Hz, white colour
<b>RHT07IED30Z150FW</b>	EVO2 HD Thermal IP camera, with a 30-150mm, F1.2 thermal zoom lens and array format of 1280x1024, 12µm, 30Hz, white colour
<b>RHT07IED25Z225FW</b>	EVO2 HD Thermal IP camera, with a 25-225mm, F1.5 thermal zoom lens and array format of 1280x1024, 12µm, 30Hz, white colour
<b>RHT07IED30Z300FW</b>	EVO2 HD Thermal IP camera, with a 30-300mm, F1.35 thermal zoom lens and array format of 1280x1024, 12µm, 30Hz, white colour
Options	All optional features, modules, cable and ancillary part numbers are available upon request





# EVO2 HD THERMAL CAMERAS

## GENERAL SPECIFICATION

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### TELEMETRY

Presets	127x Preset positions
Protocols	Pelco D, Pelco D Extended, ONVIF Profile S
Parameter Programming	RS485
Positioning	Absolute positioning feedback
Additional features	Programmable text within picture (camera ID), parameter control (RS485) TCP/IP prepared

### NETWORK

Ethernet	10/100 Base-T
Connectivity	Cat5e via multicore cable tail/PSU
Configuration	Via web browser
Network Protocols	Networking: IPv4/v6, UDP, TCP, IGMP, ARP, DHCP, DNS, NT, Streaming: RTSP, RTP, HTTP, Web Sockets Management: HTTP, HTTPS, Bonjour, ONVIF, PSIA, ION API, SNMP, SMTP Security: Basic / Digest Authentication, SSL
Latency	Can reach less than 100ms latency

### IMAGE PROCESSING

Video Compression	H.264/MPEG4 Part 2, M-JPEG (H.265 option available upon request)
H.264 Performance (Standard)	Total D1 at 390 fps or Full HD 1080p at 65 fps Examples: 2x 1080p at 30 fps (HD video/thermal) or 2x D1 at 30 fps (thermal / SD)
Image Processing	Image resizing and scaling ratio, noise reduction, edge enhancement (sharpness), ROI based video compression
Software Update	Remote / IP accessible
Other Features	Email notifications, text overlay

### OPTIONS

Thermal Imager	340 x 288 and 1024 x 768 (XGA) options available upon request
Brackets	4" PCD Adjustable mount bracket
Storage	Up to 64GB in total via SD/MMC (32GB available per channel if using thermal and video / 2x cameras)
Miscellaneous	Automatic tracking*, image stabilisation, laser range finder*, laser illuminator*, white light illuminator*, IR illuminator*, signal light gun*, UAV effector*, acoustic hailer*, window flap/cover, heater.  * (When part of a PTU system)  Please contact us if you have a specific requirement that is not mentioned in this document.

