COOLED THERMAL CAMERAS

* Illustration indicative & subject model

SD COOLED MWIR THERMAL ZOOM LENS CAMERAS

THERMAL SENSOR				
Part Number	RHT07IGB16Z300FW RHT07IGB30Z550FW RHT07IGB43Z785FW			
Focal Length	16.6mm to 300mm	30.5mm to 550mm	43.6mm to 785mm	
Horizontal Field of View	32.0° (W) to 1.8° (T)	18.0° (W) to 1.0° (T)	12.6° (W) to 0.7° (T)	
F Number		F4.0		
Optical Zoom (Continuous)	18x, Motorised 18x, Motorised 18x, Motorised			
Digital Zoom	8x			
Focus	Push autofocus, manual			
Detector Type	XBn, 20mK (NETd) @ room temperature, <30mK (Temporal NETd) @ room temperature, 30Hz, 15μm, 640 x 512 {extended 50,000 hour (MTBF) cooler is a cost option}			
Spectral Band	3 to 5μm (MWIR)			
Image Stabilization	Yes, electronic image stabilisation (cost option)			
Image Processing	Adaptive histogram equalization, linear AGC, manual gain and offset, sharpness control, edge enhancement, 7x colour palette options including monochrome			
Compatible PTU's	Osiris PTU and Jaegar PTU Jaegar PTU Only			

ELECTRICAL AND MECHANICAL				
Boresight Mechanism	Aluminium, quick release L bracket with micro adjustment boresight mechanism			
Video Output		IP, ONVIF, RTSP {Composite (PAL/NTSC) Optional}		
IP Rating	IP67			
Temperature Range	-32°C (-25°F) Up to 65°C (149°F) (-40°C with optional heater)			
Housing Material and Finish	Chromate conversion coated aluminium, (dry nitrogen backfilled, white powder marine grade paint finish)			
Weight (Typical)	Typically 6.5kg / 14lb Typically 7kg / 15.5lb Typically 14kg / 31.5lb			
Dimensions (Typical)	L391mm (excluding bracket) L479mm (excluding bracket) L645mm (excluding bracket)			

PART CODES	
RHT07IGB16Z300FW	Cooled thermal IP camera, with a 16.6-300mm, F4.0 thermal zoom lens and array format of 640x512, 15µm, 30Hz, including auto focus, white colour
RHT07IGB30Z550FW	Cooled thermal IP camera, with a 30.5-550mm, F4.0 thermal zoom lens and array format of 640x512, 15µm, 30Hz, including auto focus, white colour
RHT07IGB43Z785FW	Cooled thermal IP camera, with a 43.6-785mm, F4.0 thermal zoom lens and array format of 640x512, 15µm, 30Hz, including auto focus, white colour
Options	All optional features, modules, cable and ancillary part numbers are available upon request



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HD COOLED MWIR THERMAL ZOOM LENS CAMERAS

THERMAL SENSO)R					
Part Number	RHT07IGD55Z550FW	RHT07IGD43Z785FW	RHT07IGD75Z900FW	RHT07IGD55Z1000FW	RHT07IGD100Z1200FW	RHT07HB80Z960FW
Focal Length	55mm to 550mm	43.6mm to 785mm	75mm to 900mm	55.5mm to 1000mm	100mm to 1200mm	80mm to 960mm
Horizontal Field of View	13.3° (W) to 1.3° (T)	16.6° (W) to 0.9° (T)	9.8° (W) to 0.82° (T)	13.3° (W) to 0.7° (T)	7.3° (W) to 0.6° (T)	11.0° (W) to 0.9° (T)
F Number			F	4.0		
Optical Zoom (Continuous)	10x, Motorised	18x, Motorised	12x, Motorised	18x, Motorised	12x, Motorised	12x, Motorised
Digital Zoom				8x		
Focus			Push autofocus, manual			Continuous autofocus, manual
Detector Type	{extended 50,000 hour (MTBF) cooler is a cost option} (50,000 (NETd) typ			CMT; Long life linear (50,000hrs), 27.5 mK (NETd) typical, 60Hz, 12µm HD (1280 x 720)		
Spectral Band	3 to 5μm (MWIR) 3.7 t			3.7 to 4.95 μm (MWIR)		
Image Processing	7x colour palette options including monochrome dynamic range enhancement (LACE, Linear, Edge enhancement), 2x colour palettes			enhancement (LACE, Linear, Edge enhancement),		
Image Stabilization	Yes, electronic image stabilisation (cost option)			Yes, electronic image stabilisation		
ATCOM	ATCOM (cost option) Includes turbulence mitigation, electronic image stabilisation, LACE and super resolution			-		
Compatible PTU's	Osiris PTU Jaegar PTU Only					

ELECTRICAL AND	MECHANICAL					
Boresight Mechanism		Aluminium,	quick release L bracket with	micro adjustment boresight	mechanism	
Video Output			IP, ONV	IF, RTSP		
IP Rating			IP	57		
Temperature Range		-32°C (-25°F) Up to 65°C (149°F) (-40°C with optional heater) $ -32°C (-25°F) $ Up to $55°C (131°F) $				
Housing Material and Finish	Chromate conversion coated aluminum, (dry nitrogen backfilled, white powder marine grade paint finish) & gelcoat and gloss white polyurethane finish					
Weight (Typical)	Typically 7kg / 15.5lb	Typically 14kg / 31.5lb	Typically 14.5kg / 32lb	Typically 22.7kg / 50lb	Typically 29kg / 64lb	Typically 23Kg / 50.7lb
Dimensions (Typical)	L479mm (excluding bracket)	L645mm (excluding bracket)	L622mm (excluding bracket)	L750mm (excluding bracket)	L940mm (excluding bracket)	L597 x W299 x H299mm (excluding bracket)

PART CODES	
RHT07IGD55Z550FW	HD Cooled thermal IP camera, with a 55-550mm, F4.0 thermal zoom lens and array format of 1028x1024, 10µm, 30Hz, including auto focus, white colour
RHT07IGD43Z785FW	HD Cooled thermal IP camera, with a 43.6-785mm, F4.0 thermal zoom lens and array format of 1280x1024, 10μm, 30Hz, including auto focus, white colour
RHT07IGD75Z900FW	HD Cooled thermal IP camera, with a 75-900mm, F4.0 thermal zoom lens and array format of 1280x1024, 10µm, 30Hz, including auto focus, white colour
RHT07IGD55Z1000FW	HD Cooled thermal IP camera, with a 55.5-1000mm, F4.0 thermal zoom lens and array format of 1280x1024, 10µm, 30Hz, including auto focus, white colour
RHT07IGD100Z1200FW	HD Cooled thermal IP camera, with a 100-1200mm, F4.0 thermal zoom lens and array format of 1280x1024, 10µm, 30Hz, including auto focus, white colour
RHT07HB80Z960FW	HD Cooled thermal IP camera, with a 80-960mm, F4.0 thermal zoom lens and array format of 1280x720, 12μm, 60Hz, including image stabilisation, turbulence mitigation and auto focus, white colour
Options	All optional features, modules, cable and ancillary part numbers are available upon request

Specifications may be subject to change without notice. ${\rm E\&EO~24/10/23~V4.8}$









COOLED THERMAL CAMERAS



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SD & HD COOLED MWIR THERMAL ZOOM LENS CAMERAS

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	
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.

PLEASE CONTACT US FOR A SPECIFIC CONFIGURATION



