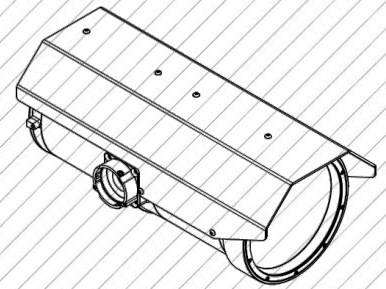


RHT SWIR CAMERAS



* Illustration indicative & subject model

SWIR SENSOR					
Part Number	RHT07ISB16Z160FW	RHT07ISB25Z300FW	RHT07ISB20Z750FW	RHT07ISB20Z1200FW	RHT07ISB500Z2500FW
Focal Length	16mm to 160mm	25mm to 300mm	20mm to 750mm	20mm to 1200mm	500 to 2500mm
Optical Zoom (Continuous)	10x, Motorised	12x, Motorised	37.5x, Motorised	60x, Motorised	5x, Motorised
F Number	F1.9-22	F1.8-32	F4.6 -360	F4-16	F4-16
Horizontal Field of View	33.4° (W) to 3.44° (T)	21.7° (W) to 1.83° (T)	27° (W) to 0.73° (T)	24.9° (W) to 0.46° (T)	1.1° (W) to 0.22° (T)
Working Spectral Band	1 – 2µ	1 – 2µ	1 – 2µ	0.4 – 1.7µ	0.9 – 1.7µ
Focus	Motorized zoom and focus				
Detector Type	InGaAs PIN-Photodiode				
Resolution	640 x 512				
Pixel Size	15µm x 15µm				
Spectral Band	0.4 to 1.7 µm (SWIR)				
Readout Noise (RMS) LG = Low Gain HG = High Gain	LG: <190 electrons (174 electrons typical) HG: <50 electrons (36 electrons typical)				
Quantum Efficiency	>80% @ 1.55µm				
Full Well Capacity	LG: 650Ke-, HG: 10Ke-				
Pixel Operability	>99.5%				
Exposure time	10µs to 26.8s				
Shutter mode	Global shutter				
Frame Rate	25Hz				
Dynamic Range	LG: 71dB, HG: 49dB				
TE Cooling	Active				
Image Correction	3 point NUC (offset, gain & dark Current) + pixel correction				
Additional Functions	Exposure, intelligent AGC, NUC, Gamma, Pk/Av, TEC				
Digital Zoom	-				
Image Stabilisation	Yes (cost option)				

ELECTRICAL AND MECHANICAL	
Rapid Release Mechanism	Yes
Video Output	IP, ONVIF, RTSP (Composite (PAL / NTSC) are cost options)
IP rating	IP67
Temperature Range	-30°C (-22°F) Up to 65°C (149°F) (-40°C with optional heater)
Power	28-32vDC, 20W, 49W Peak (with heater at +25W)
Fixing Material	Stainless steel with external fall protection
Housing Material and Finish	Iridited aluminium, white powder marine grade paint finish (other colours are available upon request)
Housing Model	HT07 HT07XL
Weight (Typical)	Typically 14Kg / 30.9lb Typically 17Kg / 37.4lb
Dimensions (Typical)	L700 x W254 x H226mm L800 x W254 x H226mm

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

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

OPTIONS	
Storage	Up to 64GB in total via SD/MMC (32GB available per channel if using thermal and video / 2x cameras)
Misc.	Image Stabilisation, heater

Specifications may be subject to change without notice
14/22/23 V4.3

