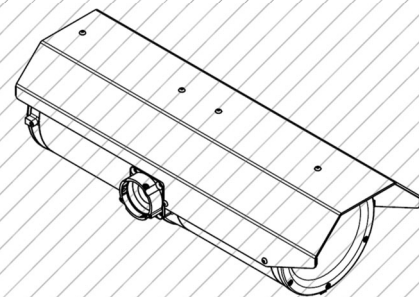


# RHT VISIBLE CAMERAS

HD LOW LIGHT VISIBLE AND 4K VISIBLE SENSORS



\* Illustration indicative & subject model

## VISIBLE CAMERA

Part Number	RHT06IYJ04Z129W	RHT07IHA16Z500W	RHT07IHA16Z1000W	RHT06IYK04Z88W
Focal Length	4.3mm to 129mm	15.2mm to 500mm	16.7mm to 1000mm (to 2000mm with (x2) extender)	4.4mm to 88.4mm
Horizontal Field of View	63.7° (W) to 2.32° (T)	23.42° (W) to 0.78° (T)	21.2° (W) to 0.45° (T) (to 0.23° (T) with x2 extender)	70.2° (W) to 4.1° (T)
F Number	F1.6 to F4.7	F3.0 to F32	F3.5 to F16 (to F32 with (x2) extender)	F2.0 to F3.8
Optical Zoom (Continuous)	30x, Motorised	33x, Motorised	60x, Motorised (120x with (x2) extender)	20x, Motorised
Focus	Automatic, manual	Push autofocus, manual		Automatic, manual
Image Sensor	1/2.8" CMOS Exmor (2.13MP) Full HD 1080p (1920 x 1080)	1/1.9" CMOS Sensor (2.38 MP) Full HD 1080p (1920 x 1080)		1/2.5" CMOS (8.51MP) QFHD 3840 x 2160
Digital Zoom	12x	-		12x
Min. Sensitivity	Colour 0.01 lux Mono 0.0008 lux (high sensitivity mode)	Colour 0.05 lux F1.2 gain of up to 60dB / 0.005 lux F1.2 / AGC @ 42dB (accumulation 25 times) Mono 0.002 lux F1.2 gain of up to 60dB / 0.0002 lux F1.2 / AGC @ 42dB (accumulation 25 times)		Colour 0.4 lux Colour 0.06 lux (slow shutter on)
Wide Dynamic Range	Yes	-		Visual Enhancer (VE)
White Balance	Auto, push and manual	Auto / manual		Auto, push and manual
Automatic Level Control (ALC)	Auto / manual			
Shutter	1/1 s to 1/10,000	1/20 to 1/10,000 (variable)		1/1 to 1/10,000
Day/Night Mode	Auto, colour, monochrome	Auto, manual, colour, monochrome		Colour only
Backlight Compensation	On/off			
Image Stabilisation	Yes (electronic image stabilisation)	Yes (cost option) (electronic image stabilisation)	Yes (cost options) (optical image stabilisation or electronic image stabilisation)	Yes (electronic image stabilisation)
Other Features	Defog, Digital Noise Reduction			

## ELECTRICAL AND MECHANICAL

Rapid Release Mechanism	Yes			
Boresight	Yes			
Video Output	IP, ONVIF, RTSP (Composite cost option)	IP, ONVIF, RTSP and Composite (PAL) (NTSC cost option)		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, 40W Peak (with heater at +25W)			
Fixing Material	Stainless steel with external fall protection			
Housing Material and Finish	Iridized aluminium, white powder marine grade paint finish (other colours are available upon request)			
Housing Model	HT06	HT07	HT07XL	HT06
Weight	Typically 4Kg / 8.8	Typically 14Kg / 30.9lb	Typically 17Kg / 37.4lb	Typically 4Kg / 8.8
Dimensions (mm)	L460 x W184 x H156	L572 x W258 x H231	L800 x W258 x H231	L460 x W184 x H156
Compatible PTU's	Osiris PTU and Jaegar PTU			

## PART CODES

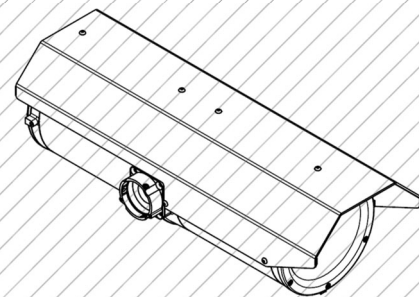
RHT06IYJ04Z129W	1/2.8" CMOS High definition (HD) IP video camera, with a 4.3-129mm (30x) optical zoom lens, white colour
RHT07IHA16Z500W	1/1.9" Low Light, CMOS, High definition (HD) IP video camera, with a 15.2-500mm (33x) optical zoom lens, white
RHT07IHA16Z1000W	1/1.9" Low Light, CMOS, High definition (HD) IP video camera, with a 16.7-1000mm (60x) optical zoom lens (2000mm, 120x optical zoom with 2x extender), white colour
RHT06IYK04Z88W	1/2.5" CMOS 4K IP video camera, with a 4.4-88.4mm (20x) optical zoom lens, white colour
Options	All optional features, modules, cable and ancillary part numbers are available upon request

Specifications may be subject to change without notice.  
11/10/21 V4.3



# RHT VISIBLE CAMERAS

HD ULTRA LOW LIGHT VISIBLE SENSORS



\* Illustration indicative & subject model

## VISIBLE CAMERA

Part Number	RHT07ICB16Z500W	RHT07ICB20Z1200W
Focal Length	15.2mm to 500mm	20mm to 1200mm (effective 2400mm with (x2) extender)
Horizontal Field of View	32.39° (W) to 1° (T)	24.87° (W) to 0.45° (T) (to 0.23° (T) with (x2) extender)
F Number	F3.0 to F32	F4.2 to F19.2 (to F38.4 with (x2) extender)
Optical Zoom	33x, Motorised (Continuous)	60x, Motorised (Continuous) (120x with (x2) extender)
Focus	Push autofocus, manual	
Image Sensor	2/3" CMOS Sensor (2.2MP), Full HD 1080p (1920 x 1080)	
Digital Zoom	10x	
Min. Sensitivity	Colour 0.005 lux at F1.4 / 50 IRE, Mono 0.000000001 lux at F1.4 / 50 IRE	
Wide Dynamic Range	Yes	
White Balance	Auto and manual	
Automatic Level Control (ALC)	Auto / manual	
Shutter	Up to 1/10,000 (variable)	
Day/Night Mode	Auto, colour, monochrome	
Backlight Compensation	On / off	
Image Stabilisation	Yes (cost option) (electronic image stabilisation)	Yes (cost options) (optical image stabilisation or electronic image stabilisation)
Other Features	Defog, Digital Noise Reduction	

## ELECTRICAL AND MECHANICAL

Rapid Release Mechanism	Yes	
Boresight	Yes	
Video Output	IP, ONVIF, RTSP and Composite (PAL / NTSC)	
IP Rating	IP67	
Temperature Range	-30°C (-22°F) Up to 65°C (149°F) [-40°C with optional heater]	
Power	28-32VDC, 20W, 40W 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	Typically 14Kg / 30.9lb	Typically 17Kg / 37.4lb
Dimensions (mm)	L572 x W258 x H231	L800 x W254 x H226
Compatible PTU's	Osiris PTU and Jaegar PTU	

## PART CODES

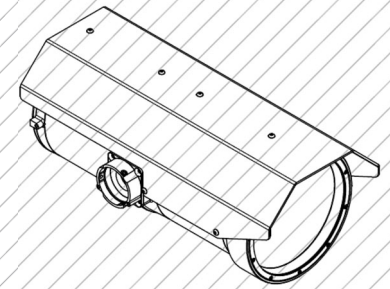
RHT07ICB16Z500W	2/3" Ultra Low Light, CMOS, High definition (HD) IP video camera, with a 15.2-500mm (33x) optical zoom lens, white colour
RHT07ICB20Z1200W	2/3" Ultra Low Light, CMOS, High definition (HD) IP video camera, with a 20-1200mm (60x) optical zoom lens (2400mm, 120x optical zoom with 2x extender), white colour
Options	All optional features, modules, cable and ancillary part numbers are available upon request

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11/10/21 V4.3



# RHT VISIBLE CAMERAS

## GENERAL SPECIFICATION



\* Illustration indicative & subject model

### 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*, window flap/cover, wiper, heater.  * (When part of a PTU system)  Please contact us if you have a specific requirement that is not mentioned in this document.

