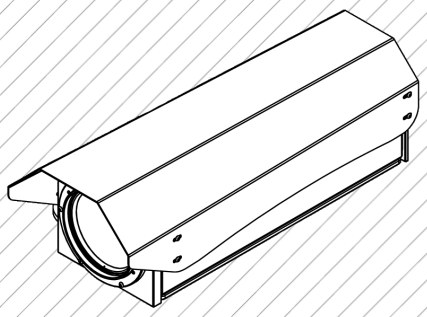
COOLED THERMAL CAMERAS

Powered by NexOS

SD COOLED MWIR THERMAL ZOOM LENS CAMERAS



* Illustration indicative & subject to model

THERMAL SENSOR

Part Number	RHTX07IGB16Z300FW	RHTX07IGB30Z550FW	RHTX07IGB43Z785FW
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	20x		
Focus	Push autofocus, continuous autofocus, continuous autofocus with automatic ROI, 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 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

NexOS *

NexOS Core (Standard)	NexOS Core includes: Push autofocus, continuous autofocus, continuous autofocus with automatic ROI, digital zoom, image contrast enhancements, CLAHE, electronic image stabilisation (2D), static overlays, remote upgrades, remote diagnostics
NexOS Performance Pack (Cost Option)	In addition to NexOS Core, includes: Electronic image stabilisation (3D), target tracking, target classification, event detection, dynamic overlays, dynamic boresight, dynamic absolute positioning, edge recording

ELECTRICAL AND MECHANICAL

Boresight with Rapid Release Mechanism	Anodised aluminium, quick release bracket with micro adjustment boresight mechanism		
Video Output	RTSP, ONVIF from PTU (H.264, H.265 and MJPEG)		
IP Rating	IP67		
Temperature Range	-32°C (-25°F) Up to 65°C (149°F) (-40°C/°F with optional Cold Weather Pack)		
Input Voltage	48VDC		
Fixing Material	Stainless steel		
Housing Material and Finish	Anodised aluminium (nitrogen purged), white powder marine grade paint finish		
Weight (Typical)	18.5kg / 40.8lb	19kg / 41.9lb	35kg / 77.2lb
Dimensions (Typical)	L740 x W298 x H249mm		L1000 x W319 x H292mm

PART CODES

RHTX07IGB16Z300FW	Cooled thermal IP camera, with a 16.6-300mm, F4.0 thermal zoom lens and array format of 640x512, 15µm, 30Hz, NexOS, white colour
RHTX07IGB30Z550FW	Cooled thermal IP camera, with a 30.5-550mm, F4.0 thermal zoom lens and array format of 640x512, 15µm, 30Hz, NexOS, white colour
RHTX07IGB43Z785FW	Cooled thermal IP camera, with a 43.6-785mm, F4.0 thermal zoom lens and array format of 640x512, 15µm, 30Hz, NexOS, white colour
Options	All optional features, modules, cable and ancillary part numbers are available upon request

* NexOS cameras to be sold with a Silent Sentinel NexOS PTU, capabilities are be subject to camera type.

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UK Manufacturer

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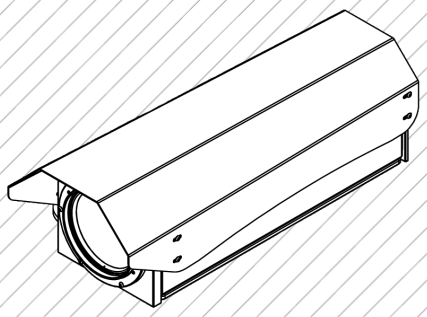
VISION & MOTION CONTROL

COOLED THERMAL CAMERAS

Powered by NexOS

HD COOLED MWIR THERMAL ZOOM LENS CAMERAS



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THERMAL SENSOR

Part Number	RHTX07IGD55Z550FW	RHTX07IGD43Z785FW	RHTX07IGD75Z900FW	RHTX07IGD55Z1000FW	RHTX07IGD100Z1200FW
Focal Length	55mm to 550mm	43.6mm to 785mm	75mm to 900mm	55.5mm to 1000mm	100mm to 1200mm
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)
F Number	F4.0				
Optical Zoom (Continuous)	10x, Motorised	18x, Motorised	12x, Motorised	18x, Motorised	12x, Motorised
Digital Zoom	20x				
Focus	Push autofocus, continuous autofocus, continuous autofocus with automatic ROI, manual				
Detector Type	XBn, 20mK (NETd) @ room temperature, <30mK (Temporal NETd) @ room temperature, 30Hz, 10µm, HD (1280 x 1024) {extended 50,000 hour (MTBF) cooler is a cost option}				
Spectral Band	3 to 5µm (MWIR)				
Image Processing	Adaptive histogram equalization, linear AGC, manual gain and offset, sharpness control, edge enhancement, 7x colour palette options including monochrome				
ATCOM	-	ATCOM (cost option) Includes turbulence mitigation, LACE and super resolution			
Compatible PTU's	Osiris PTU and Jaegar PTU	Jaegar PTU Only			

NexOS *

NexOS Core (Standard)	NexOS Core includes: Push autofocus, continuous autofocus, continuous autofocus with automatic ROI, digital zoom, image contrast enhancements, CLAHE, electronic image stabilisation (2D), static overlays, remote upgrades, remote diagnostics
NexOS Performance Pack (Cost Option)	In addition to NexOS Core, includes: Electronic image stabilisation (3D), target tracking, target classification, event detection, dynamic overlays, dynamic boresight, dynamic absolute positioning, edge recording

ELECTRICAL AND MECHANICAL

Boresight with Rapid Release Mechanism	Anodised aluminium, quick release bracket with micro adjustment boresight mechanism				
Video Output	RTSP, ONVIF from PTU (H.264, H.265 and MJPEG)				
IP Rating	IP67				
Temperature Range	-32°C (-25°F) Up to 65°C (149°F) (-40°C/°F with optional Cold Weather Pack)				
Input Voltage	48VDC				
Fixing Material	Stainless steel				
Housing Material and Finish	Anodised aluminum (nitrogen purged), white powder marine grade paint finish				
Weight (Typical)	19kg / 41.9lb	35kg / 77.2lb	38kg / 87.8lb	50kg / 110.2lb	58kg / 127.9lb
Dimensions (Typical)	L740 x W298 x H249mm	L1000 x W319 x H292mm	L1000 x W319 x H292mm	L1000 x W319 x H292mm	L1000 x W319 x H292mm

PART CODES

RHTX07IGD55Z550FW	HD Cooled thermal IP camera, with a 55-550mm, F4.0 thermal zoom lens and array format of 1028x1024, 10µm, 30Hz, NexOS, white colour
RHTX07IGD43Z785FW	HD Cooled thermal IP camera, with a 43.6-785mm, F4.0 thermal zoom lens and array format of 1280x1024, 10µm, 30Hz, NexOS, white colour
RHTX07IGD75Z900FW	HD Cooled thermal IP camera, with a 75-900mm, F4.0 thermal zoom lens and array format of 1280x1024, 10µm, 30Hz, NexOS, white colour
RHTX07IGD55Z1000FW	HD Cooled thermal IP camera, with a 55.5-1000mm, F4.0 thermal zoom lens and array format of 1280x1024, 10µm, 30Hz, NexOS, white colour
RHTX07IGD100Z1200FW	HD Cooled thermal IP camera, with a 100-1200mm, F4.0 thermal zoom lens and array format of 1280x1024, 10µm, 30Hz, NexOS, white colour
Options	All optional features, modules, cable and ancillary part numbers are available upon request

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COOLED THERMAL CAMERAS

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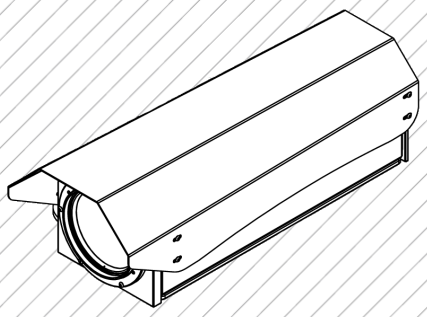

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FURTHER OPTIONS

OPTIONS	
Miscellaneous	Laser range finder*, laser Illuminator*, white light illuminator*, IR illuminator*, signal light gun*, UAV effector*, acoustic hailer*, cold weather pack*. * (When part of a PTU system)

PLEASE CONTACT US FOR A SPECIFIC CONFIGURATION

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