KOLO HC9 DUAL SENSOR PTZ CAMERA



HC9 Multisensor PTZ Series

HC9 series PTZ is a dual-sensor system including a powerful thermal and HD day/night zoom camera. High-performance imagers for true 24/7 work duty. Integrating two sensors provides unparalleled performance resulting in accurate detection, recognition, and identification of intruders and threats.

Integrated into an IP66 housing constructed of anticorrosive aluminum alloy and a high-performance pan/tilt system. HC9 includes internal heater/blower, this allows HC9 series to withstand the harshest climates and making it ideal military and critical security applications, homeland defense, and coastal security.



Extreme Long Range Detection

HC9 includes advanced Long-Wave Infrared (LWIR) HD thermal sensors in 640x512 or 1280x1024 capable of detecting vehicles at over 30km. distance and humans at over 15 km. distance.

Extreme PT performance

HC9 includes a heavy duty high precision and high repeatibility pan/tilt unit. All worm gears (no transmission belt) and and encoders to ensure best performance and low maintenance.

Key Features

- HD Thermal resolution in 640x512 or 1280x1024 pixels
- High performance NETD thermal Vox sensors with 12µm. pixel
- Long range zoom or fixed thermal lens up to 350mm.
- o 2mp. 8mp. day/night cameras, up to 2000mm zoom lens
- Starvis super low lux sensor
- 30/60fps. video
- EIS/OIS video stabilization for perfect image video stability
- High precission motor technology, accurate pan/tilt 0,001o
- Worm drive engine with long lasting / high repeatability
- High speed azimuth with -90/90o elevation
- o 48v. DC power
- IP66 waterproof housing
- High / Low temperature ready
- Heater, fan, encoders
- Military connectors
- Onvif 2.5 and Profile S



Specifications:

MODEL	HC9 SERIES						
	Тур			Dual sensor PTZ ca	nmera		
	Sensor	Sensor			x micro-bolometer		
	Wavelength		8-14µm.	·			
	NETD		<35mK@f/1,0 50Hz	z., 300K			
	Pixel pitch		12µm.				
	Resolutions		640x512 / 1280x10				
	Display resolution		Up to 1280x1024 o	r 1920x1080			
	Color palette		10 colors				
	Image enhanceme	ent		Yes			
	Frames/second				30fps		
	Focal length			Up to 350mm.	- : th l		
THERMAL	F. number HFOV			From f.1 depending	_		
	HFOV			Up to 0.4 dependir lens/resolution	ig in the		
CAMERA	Focus				zad ramata facus		
	Video compressio	n	Autofocus, motorized remote focus H.265, H.264, Mjpeg				
	Streams	11	Triple stream				
	Bitrate			256-6,144Kbps. / 1536-7,424Kbps. ,			
	Bicrace	Bitiate			VBR/CBR		
	Image settings	Image settings			Contrast, Brightness, Mirror, Flip,		
					sharpness, Image Enhancement, NR 2/3D		
	Analogue video	Analogue video			Optional		
	Motion detection/	Motion detection/ROI			Yes		
	Advanced video a	Advanced video analysis			nce detection,		
				Intrusion, Loitering detection			
	Fire detection	1		Yes			
	Sensor				sensor, base in module selection		
		Resolution	Zoom	Focal length	HFOV		
		2 megapixel	57X	15-850mm.	29,1-0,5°		
		2	OIS	45 4000	22.0.20		
		2 megapixel	80X	15-1200mm.	23-0,3°		
		4 megapixel	88X	10,5-920mm. 10-860mm.	40-0,49°		
		2 megapixel 2 megapixel	86X 35X	21-750mm.	39,6-0,5° 22-0,48°		
		2 megapixel	80X	12,5-1000mm.	18-0,37°		
		2 megapixel	80X	25-2000mm.	15,1-0,18°		
DAY/NIGHT		2 megapixer	OOX	23-200011111.	13,1-0,10		
CAMERA		Video compression			H.265, H.264, Mjpeg		
C/ WILL V	Streams			Triple stream			
	Bitrate			1024-8,384Kbps., VBR/CBR			
	Image settings			Contrast, Brightness, Mirror, Flip,			
				sharpness, Enhancement, 2/3DNR,			
	Day/Night			AWB, BLC, HLC, WDR, Near Infrared			
	Day/Night			Day, night, auto			
		Frames/second			30fps. / 60fps.		
	Focus type			Autofocus, remote motorized			



	Defogging	Optical or digital, base in selection		
	Video output	Digital		
	Video analysis (D/N)	Tripwire, Cross fence, Intrusion,		
DAY/NIGHT	video driarysis (D/TV)	Abandoned-missing object, Fast moving,		
		Parking detection, Crowd gathering		
CAMERA		estimation, Loitering Detection		
	EIS	In D/N camera		
	Local storage	Up to 256Gb. for each camera		
	Web browser IE8 or above,	Chrome, Edge, Firefox		
	Pan/tilt movement	Pan 360° endless, tilt -90/90°		
	Pan/tilt speed	0,001°-600°/Sec 0,001°-40°/Sec.		
	Accuracy	+/- 0,006°		
	Tours	8		
	Presets	256		
	Auto scan / Auto pan	Yes		
	Patterns	5 (10min.)		
	1 atterns	3 (1011111.)		
	Groups	4		
	Idle action / Start up	Yes		
	Protocols	Pelco D		
	Digital alarms	Motion detection, IVS alarms, memory full		
	Alarm I/O	D/N 1/1 - IR 1/1		
	RS485	Yes		
	Serial baudrate	2400-115200Kbps.		
GENERAL	Encoders	High end absolute positioning encoders		
	Connector	Military type		
	Network	RJ45 1x Giga Ethernet		
	Network protocols	IPv4/v6, RTSP/RTP/RTCP, TCP/UDP, HTTP,		
	·	HTTPS, DHCP, DNS, FTP, DDNS,		
		PPPoE, SMTP, SNMP V1/V2, IEEE802.X,		
		Bonjour, IP filter, QoS, ICMP, IGMP, NTP		
	Fan/Heater	Yes		
	Platform	Onvif 2.5, Profile S		
	Envirnonmental	-40°/65°C 0/95% RH not condensing		
	Power	48v.DC (24-48v.)		
	Waterproof	IP66		
	Weight	50Kg. without cameras /		
		Max. paylod 30Kg. per side		
	Size	800x535x520mm.		
	Options	LRF, DMC, GPS, Marine coating		



Thermal - DRI Distances

Human target 1,8x0,5m.	Johnson´s criteria - NATO standard - 225mm. focal length			
Detection				9.375m.
Recognition			2.344m.	
Identification		1.172m.		

Vehicle target 2,3x2,3m.	Johnson´s criteria - NATO standard - 225mm. focal length				
Detection			19.167m.		
Recognition		4.792m.			
Identification		2.396m.			

Human target 1,8x0,5m.	Johnson´s criteria - NATO standard - 350mm. focal length			
Detection	14.583m.			
Recognition		3.646m.		
Identification	1.823m	١.		

Vehicle target 2,3x2,3m.	Johnson´s criteria - NATO standard - 350mm. focal length				
Detection		44.722m.			
Recognition	11.181m.				
Identification	5.590m.				

Human target 1,8x0,5m.	DORI distances for 120	0mm.			
Detection					20.000m.
Observation				7.937m.	
Recognition			4.000m.		
Identification		2.000m.		_	

^{*} Different weather conditions and temperature changes may affect to final distances, the stated distances are references.

* GE window, fire detection/analytics, GPS, DMC, LRF are optional.

* Different laser illuminator configurations up to Skm. distance

* STANACG447/ Thermal Image-72 temp difference & =0.2 km-1 atmospheric attenuation factor / Day Imager-1000 lux illumination and target contrast of 20%. Probability 50%.

* Infrared CVBS video available only for 640x512, higher resolution HDSDI, analog video for day/night cameras not available.

* Pan/nit speed would be adjusted to different speeds depending the payload weight.

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