



VKD HD4140X 3D

1.3MP Dual-Lens People Counting Al Network Camera





DeepSense series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua DeepSense series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.The complete lineup of Dahua DeepSense includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

The Dahua Stereo Vision People Counting camera uses dual-lens imaging technology to capture 3D depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

Functions

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

- · Two 1/3" 1.3Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1.3MP(1280×960)
- · DWDR, Day/Night(Electronic), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.1mm fixed lens (2.8mm optional)
- · Micro SD memory, IP54, PoE
- · People Counting: Support line crossing people counting, region people counting











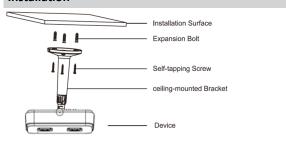
Para	Technical Specification						Bit Rate Control	CBR/VBR
Minged Sensor Effective Minor 1000 Month 1000 M							Bit Rate	
Manimum Man	Image Sensor		Two 1/3"1.3Megapixel progressive scan CMOS				Day/Night	·
Minimum Min	Effective Pixels		1028(H)x960(V)				BLC Mode	BLC / HLC /DWDR
Cain Control Cai	RAM/ROM	RAM/ROM		МВ			White Balance	Auto/Manual
Moise Moi	Scanning System		Progressive				Gain Control	Auto/Manual
Motion Detection Off / On (4 Zame, Rectangle)	Minimum Illumination		0.02Lux/F2.2 (Color,1/30s,30IRE) 0.005Lux/F2.2 (B/W,1/3s,30IRE)				Noise Reduction	3D DNR
No No No No No No No No							Motion Detection	Off / On (4 Zone, Rectangle)
IR ON/Off Control N/A	S/N Ratio		More than 50dB				Region of Interest	Off / On (4 Zone)
IR LEDS	IR Distance		N/A				_	N/A
Lens	IR On/Off Control		N/A				. ,	
Digital Zoom 16k	IR LEDs		N/A				Smart IR	N/A
Mount Type	Lens						Defog	N/A
Focal Length	Lens Type		Fixed				Digital Zoom	16x
Max. Aperture	Mount Type		Board-in				Flip	N/A
Angle of View	Focal Length	Focal Length		mm)			Mirror	N/A
Addio	Max. Aperture		F2.2				Privacy Masking	Off / On (4 Area, Rectangle)
Fixed Compression Compression G.711a/G.711Mi/ AAC/G.726	_			1.7°) V: 89° (6	66°)		Audio	
Lens	·						Compression	G.711a/ G.711Mu/ AAC/ G.726
Lens		tance		-1			Network	
DORI Distance 2.1 mm 24m(79ft) 10m(33ft) 4.8m(15.7ft) 2.4 m(79ft) 2.8 mm 35m(115ft) 14m(46ft) 7m(23ft) 7m(23ft) 3.5 m(11.5ft) Protocol HTTP;HTTP;TCP;ARP;RTSP;RTP;LDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/vs;CoS;UPnP; NTP;Bonjour;EEE 802_1x;Multicast;ICMP;IGMP;S NMP;TLS N	Close I ocus Dis				Recognize	Identify		DL 45 (10/100Base T)
2.8 mm 35m(115ft) 14m(46ft) 7m(23ft) 3.5m(11.5ft) Protocol FTP)-DFTP)-DFTP)-DFTR-SCUPAR (ASSAM) PROTOCOS ASSAM (ASSAM (ASSAM) PROTOCOS ASSAM (ASSAM (ASS	DORI Distance						Etnernet	
Pan/Tilt/Rotation Range Artificial Intelligence People Counting Line crossing people counting, Region people counting, Height filter, Loitering filter Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly Video Compression H.265/H.264/H.264B/MJPEG(Sub Stream) Smart Codec Support H.265+/H.264+ Streaming Capability Interoperability ONVIF Profile S&G, API Unicast / Multicast Max. User Access 10 Users/20 Users Edge Storage Local PC for instant recording Mirco SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Smart Phone IOS, Android Certifications Certifications CE (EN 60950:2000) UL:U160950-1 FCC: FCC Part 15 Subpart B Streaming Capability 3 Streams Interface Video Interface Main Stream: 1.3MP (1~25/30fps)		2.8 mm					Protocol	FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S
Artificial Intelligence People Counting Line crossing people counting, Region people counting, Height filter, Loitering filter General Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly General Intelligence N/A Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly Management Software Smart Phone Los, Android Certifications Certifications Certifications Certifications Certifications Certifications Line (FC: FCC Part 15 Subpart B) Streaming Capability 3 Streams LasM(1280×960)/720P(1280×720)/D1(704×576/704×480)/VGA(640×480) Main Stream: 1.3MP (1°25/30fps) Streaming Capability NAX. User Access 10 Users/20 Users NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mirco SD card 128GB NAS Local PC for instant recording Mi						Interoperability		
Artificial Intelligence People Counting Line crossing people counting, Region people counting, Height filter, Loitering filter General Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly General Intelligence N/A Web Viewer Management Software Smart PSs, DSs, DMSS General Intelligence N/A Smart Phone IOS, Android Certifications Certifications Certifications Certifications Certifications Certifications Certifications UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface Video Interface N/A Audio Interface Built-in Mic		_	N/A					
Line crossing people counting, Region people counting, Height filter, Loitering filter Edge Storage Local PC for instant recording Mirco SD card 128GB	Artificial Int					-		
General Intelligence Motion detection, Video tampering, Scene changing, Network disconnection, lp address conflict, lllegal access, Storage anomaly General Intelligence N/A Smart PSS, DSS, DMSS Management Software Smart PSS, DSS, DMSS Smart Phone IOS, Android Certifications Compression H.265/H.264/H.264H/H.264B/MJPEG(Sub Stream) Smart Codec Support H.265+/H.264+ Streaming Capability 3 Streams Interface Video Interface Video Interface Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Certifications CE (EN 60950:2000) UI:UI.60950-1 FCC: FCC Part 15 Subpart B Interface Video Interface Mirco SD card 128GB Mirco SD card 128GB Mirco SD card 128GB In Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Certifications CE (EN 60950:2000) UI:UI.60950-1 FCC: FCC Part 15 Subpart B Video Interface Built-in Mic Audio Interface Built-in Mic	People Counting						Max. User Access	
Resolution Network disconnection, lp address conflict, Illegal access, Storage anomaly Management Software Smart PSS, DSS, DMSS Management Software Smart PSS, DSS, DMSS Certifications Video Interface N/A Main Stream: 1.3MP (1~25/30fps) PSA85 Leget Management Software Smart PSS, DSS, DMSS CE (EN 60950:2000) UL:UL60950:1 FCC: FCC Part 15 Subpart B Video Interface Audio Interface Built-in Mic	General Inte	elligence					Edge Storage	_
access, Storage anomaly Management Software Smart PSS, DSS, DMSS Smart Phone IOS, Android Certifications Compression H.265/H.264/H.264B/MJPEG(Sub Stream) Smart Codec Support H.265+/H.264+ Streaming Capability 3 Streams Interface Resolution Main Stream: 1.3MP (1~25/30fps) Management Software Smart PSS, DSS, DMSS IOS, Android Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Video Interface N/A Audio Interface Built-in Mic	Event Trigger						Web Viewer	IE, Chrome, Firefox, Safari
Video Certifications Compression H.265/H.264/H.264B/MJPEG(Sub Stream) Smart Codec Support H.265+/H.264+ Streaming Capability 3 Streams Resolution 1.3M(1280x960)/720P(1280x720)/D1(704x480)/VGA(640x480) Main Stream: 1.3MP (1~25/30fps) Video Interface PS485 1 port	665.					-	Management Software	Smart PSS, DSS, DMSS
Certifications Cert	General Intelligence		N/A				Smart Phone	IOS, Android
Smart Codec Support H.265+/H.264+ Certifications UI:UL60950-1 FCC: FCC Part 15 Subpart B Streaming Capability 3 Streams Interface Resolution 1.3M(1280x960)/ 720P(1280x720)/ D1(704x576/704x480)/ VGA(640x480) Video Interface N/A Audio Interface Built-in Mic PS485 1 port	Video						Certifications	
Streaming Capability 3 Streams Interface	Compression		H.265/H.264/H.264H/H.264B/MJPEG(Sub Stream)				Certifications	
Resolution 1.3M(1280x960)/720P(1280x720)/ D1(704×576/704x480)/VGA(640x480) Main Stream: 1.3MP (1~25/30fps) PS485 1 port			Support H.265+/H.264+					FCC: FCC Part 15 Subpart B
Resolution D1(704×576/704×480)/ VGA(640x480) Audio Interface Built-in Mic Main Stream: 1.3MP (1~25/30fps)	Streaming Capability		3 Streams				Interface	
Main Stream: 1.3MP (1~25/30fps)	Resolution						Video Interface	N/A
Frame Rate Sub Stream 1: D1 (1 ~ 25/30fps) RS485 1 port			Main Stream: 1.3MP (1~25/30fps)				Audio Interface	Built-in Mic
	Frame Rate		Sub Stream	1: D1 (1 ~ 25/	'30fps)		RS485	
Sub Stream 2: 720P (1~25/30fps) Alarm 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC 1 channel Out: 300mA 12VDC			Sub Stream 2: 720P (1~25/30fps)				Alarm	

Electrical

Power Supply	DC12V, PoE (IEEE 802.3af)(Class 0)				
Power Consumption	DC12V: 3.6W 4.6W(People Counting on) PoE: 4.2W 5.3W((People Counting on))				
Environmental					
Operating Conditions	-10° C ~ +45° C (14° F ~ +113° F) / Less than 95% RH				
Storage Conditions	-10° C ~ +45° C (14° F ~ +113° F) / Less than 95% RH				
Ingress Protection	IP54				
Vandal Resistance	N/A				
Construction					

Casing	Metal
Dimensions	162.1mmx76mmx37.8mm (6.38"x2.99"x1.49")
Net Weight	0.3kg (0.66lb)
Gross Weight	0.46kg (1.01lb)

Installation



Dimensions (mm/inch)

