

DH-IPC-HD4140X-3D

1.3MP Dual-Lens People Counting AI Network Camera



Dahua AI 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 AI series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.The complete lineup of Dahua AI 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
- \cdot 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











Technical S	pecification					Bit Rate Control	CBR/VBR
Camera						Bit Rate	H.264: 1280~ 6144Kbps H.265: 512~ 3072Kbps
Image Sensor		Two 1/3"1.3Megapixel progressive scan CMOS				Day/Night	Electronic
Effective Pixels		1028(H)x960(V)				BLC Mode	BLC / HLC /DWDR
RAM/ROM		512MB/128MB				White Balance	Auto/Manual
Scanning System		Progressive				Gain Control	Auto/Manual
· · ·		0.003Lux/F2.2 (Color,1/3s,30IRE) 0.02Lux/F2.2 (Color,1/30s,30IRE)					
Minimum Illum	ination	0.005Lux/F2	2 (Color,1/30 2.2 (B/W,1/3: 2 (B/W,1/30:	s,30IRE)		Noise Reduction Motion Detection	3D DNR Off / On (4 Zone, Rectangle)
S/N Ratio		More than 50dB				Region of Interest	Off / On (4 Zone)
IR Distance		N/A				Electronic Image Stabilization	NI/A
IR On/Off Control		N/A				(EIS)	N/A
IR LEDs		N/A				Smart IR	N/A
Lens						Defog	N/A
Lens Type		Fixed				Digital Zoom	16x
Mount Type		Board-in				Flip	N/A
Focal Length		2.1mm (2.8mm)				Mirror	N/A
Max. Aperture		F2.2				Privacy Masking	Off / On (4 Area, Rectangle)
Angle of View		H: 109.5° (89°), V: 84.3° (64°)				Audio	
Optical Zoom		N/A				Compression	G.711a/ G.711Mu/ AAC/ G.726
Focus Control		Fixed					G./IIa/ G./IIWa/ AAC/ G./20
Close Focus Distance		0.3m (0.98f				Network	
	Lens	Detect	Observe	Recognize	Identify	Ethernet	RJ-45 (10/100Base-T)
DORI Distance	2.1 mm 2.8 mm	24m(79ft) 35m(115ft)	10m(33ft) 14m(46ft)	4.8m(15.7ft) 7m(23ft)	2.4m(7.9ft) 3.5m(11.5ft)	Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SM FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPr NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGM NMP;TLS
Pan/Tilt/Rotation					Interoperability	ONVIF Profile S&G, API	
Pan/Tilt/Rotati	on Range	N/A					Unicast / Multicast
Artificial Intelligence					Streaming Method		
People Countin	g		g people cou , Loitering filt	nting, Region pe	ople counting,	Max. User Access	10 Users/20 Users NAS
General Inte	elligence					Edge Storage	Local PC for instant recording Mirco SD card 128GB
Event Trigger			,	tampering, Sce p address confl	0 0,	Web Viewer	IE, Chrome, Firefox, Safari
LVCIIL IIIBBEI			age anomaly		, 0	Management Software	Smart PSS, DSS, DMSS
General Intelligence		N/A				Smart Phone	IOS, Android
Video						Certifications	
Compression		H.265/H.264	4/H.264H/H.2	264B/MJPEG(Su	b Stream)	Coubification	CE (EN 60950:2000)
Smart Codec		Support H.265+/H.264+				Certifications	UL: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
		Main Strean	n: 1.3MP (1~2	25/30fps)		Audio Interface	Built-in Mic
Frame Rate			1: D1 (1 ~ 25/			RS485	1 port
		Sub Stream 2: 720P (1~25/30fps)				Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

Al Series | DH-IPC-HD4140X-3D

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					
	Installation Surface Expansion Bolt				
1.	Self-tapping Screw				
	Device				
Dimensions (mm/inch)					
76.0 [2.99"]	37.8 [1.49"]				

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HD4140XP-3D- 0210B	1.3MP Dual-Lens People Counting Al Network Camera, PAL				
	DH-IPC- HD4140XN-3D- 0210B	1.3MP Dual-Lens People Counting AI Network Camera, NTSC				
1 2MD	DH-IPC- HD4140XP-3D- 0280B	1.3MP Dual-Lens People Counting Al Network Camera, PAL				
1.3MP Camera	DH-IPC- HD4140XN-3D- 0280B	1.3MP Dual-Lens People Counting AI Network Camera, NTSC				
	IPC-HD4140XP- 3D-0210B	1.3MP Dual-Lens People Counting Al Network Camera, PAL				
	IPC-HD4140XN- 3D-0210B	1.3MP Dual-Lens People Counting Al Network Camera, NTSC				
	IPC-HD4140XP- 3D-0280B	1.3MP Dual-Lens People Counting Al Network Camera, PAL				
	IPC-HD4140XN- 3D-0280B	1.3MP Dual-Lens People Counting Al Network Camera, NTSC				
Accessories (included)	Quick mounting board	Quick mounting board				

