

# DH-IPC-HD4140X-3D

### 1.3MP Dual-Lens People Counting AI 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 98% 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.

#### Intelligent Video Analysis (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire, Intrusion, Abandoned, Missing and so on, to quickly and accurately respond to monitoring events in specific area. It can enhance monitoring efficiency. At the same time, the camera can support face detection,

- · Two 1/3" 1.3Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25fps@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









which can quickly capture a face and upload the image to server. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.





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Technical S					Bit Rate Control	CBR/VBR H.264: 1280~ 6144Kbps	
Camera		Two 1/3"1.3Megapixel progressive scan CMOS				Bit Rate	H.265: 512~ 3072Kbps
Image Sensor			0, ,	rogressive 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
Minimum Illumination		0.005Lux/F2.2 ( Color,1/3s,30IRE) 0.05Lux/F2.2 ( Color,1/30s,30IRE) 0.005Lux/F2.2 ( B/W,1/3s,30IRE) 0.05Lux/F2.2 ( B/W,1/30s,30IRE)				Noise Reduction	3D DNR
						Motion Detection	Off / On (4 Zone, Rectangle)
S/N Ratio		More than 5	i0dB			Region of Interest	Off / On (4 Zone)
IR Distance		N/A				Electronic Image Stabilization	N/A
IR On/Off Control		N/A				(EIS)	
IR LEDs		NA				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 (2.8r	mm)			Mirror	N/A
Max. Aperture		F2.2 (Wide)				Privacy Masking	Off / On (4 Area, Rectangle)
Angle of View		H: 115.6° (91.7°) V: 89° (66°)				Audio	
Optical Zoom		N/A				Compression	G.711a/ G.711Mu/ AAC/ G.726
Focus Control  Close Focus Distance		0.3m (0.4m)				Network	
	Lens	Detect	Observe	Recognize	Identify	Ethernet	RJ-45 (10/100Base-T)
DORI Distance	2.1 mm	24m(79ft)	10m(33ft)	4.8m(15.7ft)	2.4m(7.9ft)		HTTP:HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;
	2.8 mm	35m(115ft)	14m(46ft)	7m(23ft)	3.5m(11.5ft)	Protocol	FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S
Pan/Tilt/Rotation							NMP;TLS
Pan/Tilt/Rotati	on Range	N/A				Interoperability	ONVIF Profile S&G, API
Artificial Int	elligence					Streaming Method	Unicast / Multicast
People Countin	ng	Line crossing people counting, Region people counting,				Max. User Access	10 Users/20 Users
General Inte		Height filter, Loitering filter				Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Generalina	cingeriee	Motion dete	ection, Video	tampering, Scei	ne changing,	Web Viewer	IE, Chrome, Firefox, Safari
Event Trigger			connection, I age anomaly	p address confl	ict, Illegal	Management Software	Smart PSS, DSS, DMSS
General Intellig	ence	Tripwire, Int	rusion, Objec	t Abandoned/M	Missing	Smart Phone	IOS, Android
Video						Certifications	
Compression		H.265/H.264/H.264H/H.264B/MJPEG(Sub Stream)					CE (EN 60950:2000)
Smart Codec		Support H.265+/H.264+				Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capa	ability	3 Streams				Interface	
Resolution		1.3M(1280x960)/ 720P(1280x720) D1(704×576/640x480/352x240) D2(1280*720/704×576/640*480)				Video Interface	N/A
Frame Rate			0/704× 576/ n: 1.3MP (1~2	•		Audio Interface	Built-in Mic
			1: D1 (1 ~ 25/			RS485	1 port
			2: 720P (1~25			Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC



## DeepSense Series | DH-IPC-HD4140X-3D

Electrical					
Power Supply	DC12V, PoE (IEEE 802.3af)(Class 0)				
Power Consumption	DC12V: 3.6W 4.6W(IR on) PoE: 4.2W 5.3W(IR 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					
	<ul> <li>Installation Surface</li> </ul>				
	Expansion Bolt				
1 1	Self-tapping Screw				
	ceiling-mounted Bracket				
	- 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						
3MP Camera	DH-IPC- HD4140XP-3D- 0280B	1.3MP Dual-Lens People Counting Al Network Camera						
	IPC-HD4140XP- 3D-0210B	1.3MP Dual-Lens People Counting Al Network Camera						
	IPC-HD4140XP- 3D-0280B	1.3MP Dual-Lens People Counting Al Network Camera						
Accessories Quick mounting (included) board		Quick mounting board						



