DH-IPC-HDW8341X-3D

3MP Dual-Lens People Counting AI Network Camera

- Two 1/2.8” 3Megapixel progressive scan STARVIS™ CMOS
- H.265&H.264 triple-stream encoding
- 25fps@3MP(2048×1536)
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.8mm fixed lens (3.6mm optional)
- Max. IR LEDs Length 10m
- Micro SD memory, IP67, PoE
- People Counting: Support line crossing people counting, region people counting

Deep 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 98% counting accuracy.

Functions

Wide dynamic range (WDR)

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

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.

Protection (IP67, wide voltage)

Supporting ±25% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides effective protection for both the camera and its structure against lightning.IP67 is supported by the camera, which makes it suitable for both indoor and outdoor environments.

Technical Specification

Camera

Image Sensor	Two 1/2.8"3Megapixel progressive scan CMOS
Effective Pixels	2048(H)x1536(V)
RAM/ROM	512MB/4096MB
Scanning System	Progressive
Minimum Illumination	0.009Lux/F1.8 (Color,1/3s,30IRE) 0.08Lux/F1.8 (Color,1/30s,30IRE) 0Lux/F1.8(IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 10m(33ft)
IR On/Off Control	Auto/ Manual
IR LEDs	1

Lens

Lens Type	Fixed
Mount Type	Board-in
Focal Length	2.8mm (3.6mm)
Max. Aperture	F1.8
Angle of View	H: 106° (80°), V:80° (58°)
Optical Zoom	N/A
Focus Control	Fixed
Close Focus Distance	0.6m (0.9m)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	45m(147ft)	18m(59ft)	9m(29ft)	4m(13ft)
	3.6 mm	57m(187ft)	23m(75ft)	11m(36ft)	6m(19ft)

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Tilt:-10˚~70˚;

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	Heatmap

Video

Compression	H.265/H.264H/MJPEG(Sub Stream)
Smart Codec	Support H.265+/H.264+
Streaming Capability	3 Streams
Resolution	3MP(2048×1536)/ 1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480) / VGA(640x480)/ CIF(352×288/342x240)
Frame Rate	Main Stream: 3MP (1~25fps)
	Sub Stream 1: D1 (1 ~ 25/30fps)
	Sub Stream 2: 6MP (1~7fps, For Debugging Only)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 192~ 10240Kbps H.265: 80~ 6144Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Defog	N/A
Digital Zoom	16x
Flip	N/A
Mirror	N/A
Privacy Masking	Off / On (4 Area, Rectangle)

Audio

Compression	G.711a/ G.711Mu/ AAC/ G.726

Network

Ethernet	RJ-45 (100/1000Base-T)
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;SNMP;TLS
Interoperability	ONVIF Profile S&G, API
Streaming Method	Unicast / Multicast
Max. User Access	10 Users/20 Users
Edge Storage	NAS 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:UL60950-1 FCC: FCC Part 15 Subpart B

Interface

Video Interface	1 port (For Adjustment Only)
Audio Interface	2/1 channel In/Out (RCA), Built-in Mic
RS485	N/A
Alarm	2 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC

Electrical

Power Supply	DC12V, PoE (IEEE 802.3af)(Class 0)
Power Consumption	< 12W

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A

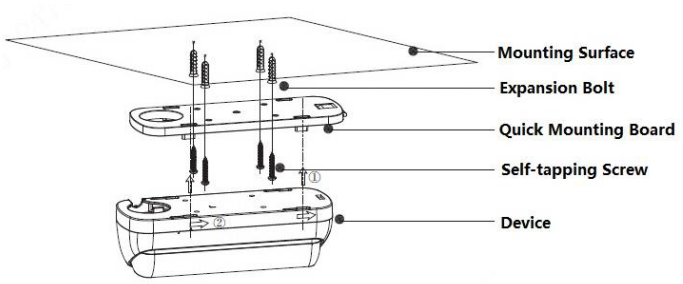
Construction

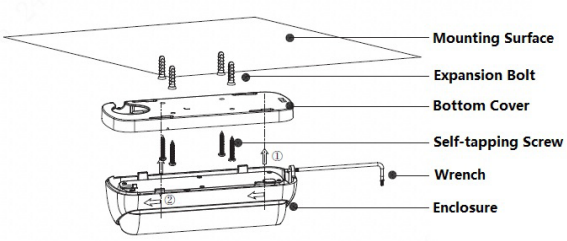
Casing	Metal
Dimensions	204mmx78mmx62mm (8.03"x3.07"x2.44")
Net Weight	0.8kg (1.76lb)
Gross Weight	1.09kg (2.40lb)

Ordering Information

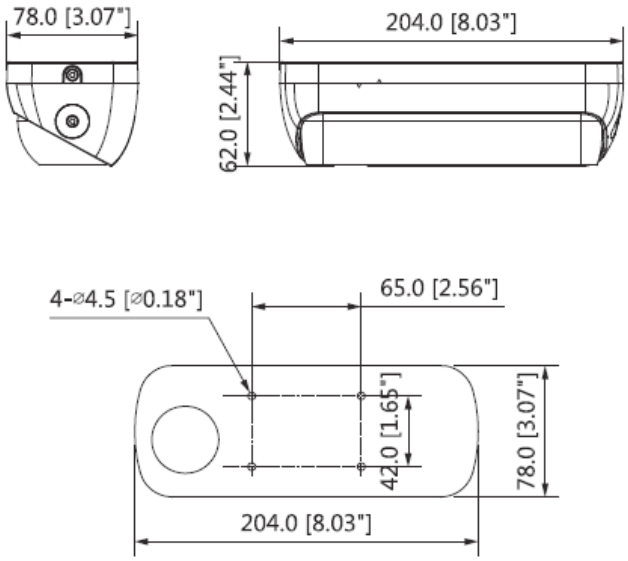
Type	Part Number	Description
3MP Camera	DH-IPC-HDW8341XP-3D-0280	3MP Dual-Lens People Counting AI Network Camera,PAL
	DH-IPC-HDW8341XN-3D-0280	3MP Dual-Lens People Counting AI Network Camera,NTSC
	IPC-HDW8341XP-3D-0280	3MP Dual-Lens People Counting AI Network Camera,PAL
	IPC-HDW8341XN-3D-0280	3MP Dual-Lens People Counting AI Network Camera,NTSC
	DH-IPC-HDW8341XP-3D-0360	3MP Dual-Lens People Counting AI Network Camera,PAL
	DH-IPC-HDW8341XN-3D-0360	3MP Dual-Lens People Counting AI Network Camera,NTSC
	IPC-HDW8341XP-3D-0360	3MP Dual-Lens People Counting AI Network Camera,PAL
	IPC-HDW8341XN-3D-0360	3MP Dual-Lens People Counting AI Network Camera,NTSC
Accessories (included)	Quick mounting board	Quick mounting board

Installation





Dimensions (mm/inch)



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