

DH-IPC-HDW5541TM-ASE

5MP WDR IR Eyeball AI Network Camera





- · 1/2.7" 5Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- · 20 fps@2592 × 1944, 50/60 fps@1080P (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm, 6.0 mm optional)
- · Built-in MIC
- · Max. IR LEDs Length 50 m
- · Micro SD memory, IP67











System Overview

Pro AI series contains Face Detection, Perimeter Protection and People Counting functions. Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Meanwhile, the series features starlight and smart IR technology. This series fully protected from dust and water, certified to IP67 standard.

Functions

Face Detection

Face Detection is a software application that automatically captures faces from within a digital image or a video frame from a video source. Dahua cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Perimeter Protection

Dahua's Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile client reduces system requirements and resources resulting in greater surveillance system efficiency.

People Counting

People Counting function uses advanced image processing technology to capture 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.

Protection(IP67, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67), the camera is the choice for installation in even the most unforgiving environments.

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.



Technical Specification						Resolution	2592 × 1944/2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
Camera							
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS				Frame Rate	Main Stream: 2592 × 1944 (1 fps–20 fps)
Effective Pixels		2592 (H) × 1944 (V)					2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
RAM/ROM		512 MB/128 MB					Sub Stream: D1 (1 fps-20/30 fps) D1 (1 fps-50 fps)
Scanning System		Progressive					Third Stream: 1080P (1 fps–17 fps)
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s				Bit Rate Control	CBR/VBR
Minimum Illumination		0.005 Lux@F1.6				Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
IR Distance		Distance up to 50 m (164 ft)				Day/Night	Auto(ICR)/Color/B/W
IR On/Off Control		Auto/Manual				BLC Mode	BLC/HLC/WDR (120 dB)
IR LEDs		2				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Lens						Gain Control	Auto/Manual
Lens Type		Fixed-focal				Noise Reduction	3D DNR
Mount Type		Board-in				Motion Detection	Off/On (4 Zone, Rectangle)
Focal Length		2.8 mm, 3.6 i	mm, 6.0 mm			Region of Interest	Off/On (4 Zone)
Max. Aperture		F1.6				Electronic Image Stabilization (EIS)	N/A
Angle of View		H: 102°, V: 71	.°/H: 84°, V: 58	s°/H: 51°, V: 37	7°	Smart IR	Yes
Aperture Type		Fixed				Defog	Yes
Close Focus Dista	ance	0.9 m (2.95 ft)/1.6 m (5.25 ft)/3.1 m (10.17 ft)				Flip	0°/90°/180°/270°
	Lens	Detect	Observe	Recognize	Identify	Mirror	Off/On
DORI Distance	2.8mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)	Privacy Masking	Off/On (4 Area, Rectangle)
	3.6mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)	Audio	
	6.0mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)	Compression	G.711a, G.711Mu, G.726, AAC, G.723
Pan/Tilt/Rotat	ion					Network	
Pan/Tilt/Rotation	n Range	Pan: 0°-360°; Tilt: 0°-78°; Rotation: 0°-360°			60°	Ethernet	RJ-45 (10/100 Base-T)
Artificial Intelli	igence						IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP
Face Detection			image captur			Protocol	;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
Perimeter Protec	tion	people), fast	usion (Recogr moving, loite d people gath	ring detection		Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
		Support Line	crossing/Reg	ion/Queueing		Streaming Method	Unicast/Multicast
People Counting			oport 4 access areas indepen			Max. User Access	20 Users
General Intelligence		Motion detection, Video tampering , Scene				Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB
Event Trigger			twork disconr al Access, Stor			Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
General Intelligence		Object Abandoned/Missing				Management Software	Smart PSS, DSS, DMSS
Heat Map		Yes				Smart Phone	iOS, Android
Video		H 205 H 204 H 2040 H 204H				Certifications	
Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)				Certifications	CE-LVD: EN60950-1
Smart Codec		Yes	Yes				CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Streaming Capability		3 Streams					FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

Interface

Audio Interface	Built-in MIC
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<7.2W

Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH
Storage Conditions	-30° C to +60° C (-22° F to +140° F)
Ingress Protection	IP67

Construction

Casing	Metal
Dimensions	Φ106 mm × 93.6 mm (4.17" × 3.69")
Net Weight	0.55 kg (1.21 lb)
Gross Weight	0.71 kg (1.57 lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HDW5541TMP-ASE	5MP WDR IR Eyeball AI Network Camera, WDR, PAL		
5MP camera	DH-IPC- HDW5541TMN- ASE	5MP WDR IR Eyeball Al Network Camera, WDR, NTSC		
SIVIP CAITIELA	IPC-HDW5541TMP- ASE	5MP WDR IR Eyeball AI Network Camera, WDR, PAL		
	IPC- HDW5541TMN- ASE	5MP WDR IR Eyeball AI Network Camera, WDR, NTSC		
	PFA130-E	Junction box		
	PFA151	Corner Mount		
Accessories	PFB204W	Wall Mount		
(optional)	PFA106	Mount Adapter		
	PFB220C	Ceiling Mount		
	PFA152-E	Pole Mount		

Accessories

Optional:









PFA130-E Junction box

PFA151 Corner Mount

PFB204W Wall Mount

PFA106 Mount Adapter







LR1002 ePoE Over Coax

Converter

Junction Mount	Corner Mount
PFA130-E	PFA151+PFB204W
Wall Mount	Ceiling Mount
PFB204W	PFA106+PFB220C
Ceiling Mount	Pole Mount
	PFB204W + PFA152-E

Dimensions (mm[inch])





