

DH-IPC-HDW5241TM-AS-LED

2MP WDR Eyeball 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

Pro Al series contains Face Capture, 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.

Functions

Face Capture

Face capture 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.

Face Attributes

Through the use of deep learning algorithms to analyze facial images, Dahua cameras can extract six facial attributes from each frame, including Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard. Customers can acquire data of interest via face attributes statistics.

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

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(Electronic), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm optional)
- \cdot Max. LEDs Length 17m
- · Micro SD memory, IP67













Al 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.

Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Dahua face detection camera can extract six facial attributes and output the metadata for analysis.

Protection(IP67, wide voltage)

The camera allows for $\pm 30\%$ 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.



Technical Spo	ecification					Streaming Capability	3 Streams
Camera						Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(128 0×720)/D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS			OS		Main Stream: 1080P(1~25/30ps)
Effective Pixels		1920(H) x 10	80(V)			Frame Rate	Sub Stream: D1(1~25/30fps)
RAM/ROM		512MB/128N	ИΒ				Third Stream: 1080P(1~6fps)
Scanning System Progressive			Bit Rate Control	CBR/VBR			
Electronic Shutter Speed Auto/Manual, 1/3~1/100000s			Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 7424bps			
Minimum Illumin	ation	0.002103Lux/F1.6 (Color,1/3s,30IRE) 0.01232Lux/F1.6 (Color,1/30s,30IRE)				Day/Night	Day/Night: Electronic Auto/ Color / B/W
		2.8mm:Dista	nce up to 8m	(26ft)		BLC Mode	Auto/ Color / B/W
LED Distance		3.6mm:Distance up to 11m (36ft) 6mm:Distance up to 17m (56ft)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
LED On/Off Contr	ol	Auto/ Manua	ıl			Gain Control	Auto/Manual
LEDs		2				Noise Reduction	3D DNR
Lens						Motion Detetion	Off / On (4 Zone, Rectangle)
Lens Type		Fixed				Region of Interest	Off / On (4 Zone)
Mount Type		Board-in				Electronic Image Stabilization (EIS)	N/A
Focal Length		2.8mm,3.6m	2.8mm,3.6mm,6.0mm			Smart IR	Support
Max. Aperture		F1.6	F1.6			Defog	Support
Angle of View		H: 106°, V:57	°/H: 87°, V:46	°/H: 53°, V:30°		Digital Zoom	N/A
Optical Zoom		N/A	N/A			Flip	0°/90°/180°/270°
Aperture Type		Fixed	Fixed			Mirror	Off / On
Close Focus Dista	nce	0.6m(1.97ft)/1.2m(3.94ft)/2.5m(8.20ft)				Privacy Masking	Off / On (4 Area, Rectangle)
	Lens	Detect	Observe	Recognize	Identify	Audio	
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	Compression	G.711a/G.711Mu/G.726/AAC/G.723
DORI Distance	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Network	
	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	Ethernet	RJ-45 (10/100Base-T)
Pan/Tilt/Rotati	ion					Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS
Pan/Tilt/Rotation	Range	Pan:0°~360°;	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°			Intereperability	UPnP;NTP ONVIF(Profile S/Profile G),
Artificial Intelli	gence					Interoperability	CGI,Milstone,Genetec,P2P
Face Caputure		Support face	Support face image caputure			Streaming Method	Unicast / Multicast
Face Attributes		Age, Gender,	Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly/Surprise/Normal/ Rage/Sad/Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard			Max. User Access	20 Users NAS
						Edge Storage	FTP Mirco SD card 256GB
Perimeter Protection		Tripwire, Intrusion(Human & Vehicle classification)				Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
People Counting Line crossing people counting, R counting, Loitering filter		illig, kegioli p	еоріе	Management Software	Smart PSS, DSS, P2P		
General Intellig	gence	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Smart Phone	iOS, Android
Event Trigger						Certifications	CE-LVD:EN60950-1
General Intelliger	nce		doned/Missin				CE-ENC:EN60950-1 CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU
Video			, ,			Certifications	FCC:47 CFR FCC Part 15, Subpart B UL/CUL:
Compression		H.265/H.264	H.265/H.264/H.264H/H.264B/MJPEG(sub stream)				UL60950-1 CAN/CSA C22.2 No.60950-1-07

Interface

Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC12V, PoE(802.3af)(Class 0)
Power Consumption	DC12V:1.8W 6.2W(LED on)

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / 10%RH $^{\sim}$ 95% RH
Strorage Conditions	+5° C $^{\sim}$ +40° C (+41° F $^{\sim}$ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH $^{\sim}$ 95% RH
Ingress Protection	IP67

Construction

Casing	Metal,plastic
Dimensions	Ф106mm×93.6mm (4.17"×3.69")
Net Weight	0.54Kg (1.19lb)
Gross Weight	0.71Kg (1.57lb)

	Ordering Ir	nformation	
	Туре	Part Number	Description
		DH-IPC- HDW5241TMP- AS-LED	2MP WDR Eyeball AI Network Camera, WDR,PAL
	2MP camera	DH-IPC- HDW5241TMN- AS-LED	2MP WDR Eyeball AI Network Camera, WDR,NTSC
		IPC-HDW5241TMP- AS-LED	2MP WDR Eyeball Al Network Camera, WDR,PAL
		IPC- HDW5241TMN- AS-LED	2MP WDR Eyeball AI Network Camera, WDR,NTSC
		PFA130-E	Junction box
	Accessories (optional)	PFA151	Corner Mount
		PFB203W	Wall Mount
		PFA106	Mount Adapter
		PFB220C	Ceiling Mount
		PFA152-E	Pole Mount

Accessories

Optional:









PFA130-E Junction box

PFA151 Corner Mount

PFB203W Wall Mount

PFA106 Mount Adapter



PFB220C Ceiling Mount



PFA152-E
Pole Mount

Junction Mount	Corner Mount
PFA130-E	PFA151+PFB203W
Wall Mount	Ceiling Mount
PFB203W	PFA106+PFB220C
Ceiling Mount	Pole Mount
	PFB203W + PFA152-E

Dimensions (mm/inch)





