

DH-IPC-HDPW5241G-Z

2MP WDR IR Dome Al 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 AI 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.

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 AI analytics and real-time alerts to a desktop or to a mobile client reduces system requirements and resources resulting in greater

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm~13.5mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 40m
- · Micro SD memory













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.



Technical Spe	ecification					Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(128 0×720)/D1(704×576/704×480)/VGA(640×480)/
Camera					Resolution	CIF(352×288/352×240)	
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS				Frame Rate	Main Stream: 1080P(1~25/30fps)
Effective Pixels		1920(H) x 1080(V)					Sub Stream: D1(1~25/30fps)
RAM/ROM		512MB/128MB					Third Stream: 1080P(1~6fps)
Scanning System		Progressive				Bit Rate Control	CBR/VBR
Electronic Shutte	r Speed	Auto/Manual, 1/3~1/100000s				Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 7424Kbps
Minimum Illumination		0.0028Lux/F1.5 (Color,1/3s,30IRE) 0.0217Lux/F1.5 (Color,1/30s,30IRE)				Day/Night	Auto(ICR) / Color / B/W
ID Distance		OLux/F1.5 (IR on) Distance up to 40m (131ft)				BLC Mode	BLC / HLC / WDR(120dB)
IR Distance			40111 (13111)			White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR On/Off Control		Auto/ Manual				Gain Control	Auto/Manual
R LEDs		3				Noise Reduction	3D DNR
_ens						Motion Detetion	Off / On (4 Zone, Rectangle)
Lens Type		Motorized				Region of Interest	Off / On (4 Zone)
Mount Type		Board-in				Electronic Image Stabilization	Support
Focal Length		2.7mm~13.5m	m			(EIS)	
Max. Aperture		F1.5				Smart IR	Support
Angle of View		H: 109°~30°, V:57°~17°				Defog	Support
Optical Zoom		5x	5x			Digital Zoom	N/A
Aperture Type		Auto				Flip	0°/90°/180°/270°
Close Focus Distance		0.8m(2.62ft)				Mirror	Off / On
	Lens	Detect	Observe	Recognize	Identify	Privacy Masking	Off / On (4 Area, Rectangle)
OORI Distance	W	44m(144ft)	18m(59ft)	9m(30ft)	4m(13ft)	Audio	
JOHI DISTAIRE	т	146m(479ft)	58m(190ft)	29m(95ft)	15m(49ft)	Compression	G.711a/ G.711Mu/ AAC/ G.726/G.723
Dan /Tilt /Datati		140111(47311)	38111(13011)	29111(9311)	13111(4311)	Network	
an/Tilt/Rotati						Ethernet	RJ-45 (10/100Base-T)
an/Tilt/Rotation		Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°					HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP;
Artificial Intelli	gence					Protocol	FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; UPnP;NTP
ace Capture		Support face image capture				Interoperability	ONVIF(Profile S/Profile G),
ace Attributes		Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/ Disgusted/Confused/Frightened), Glasses, Mouth Mask,			age/Sad/	Streaming Method	CGI,Milstone,Genetec,P2P Unicast / Multicast
		Moustache & E	Beard			Max. User Access	20 Users
Perimeter Protection		Tripwire, Intrusion(Human & Vehicle classification) Line crossing people counting, Region people				Edge Storage	NAS FTP Mirco SD card 256GB
People Counting		counting,Loite	ring filter			Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
General Intellig	gence					Management Software	Smart PSS, DSS, P2P
event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Smart Phone	iOS, Android
General Intelligence		Object Abandoned/Missing				Certifications	
Video							CE-LVD:EN60950-1
Compression		H.265+/H.265/H.264+/H.264/H.264B/H.264H/ MJPEG(sub stream)			H/	Certifications	CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU FCC:47 CFR FCC Part 15, Subpart B
Streaming Capability		3 Streams					Tec. 17 et it reet at £13, Subpart b

Interface

Video Interface	N/A
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

Electrical

Power Supply	DC12V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:2W 9.2W(IR on) PoE:2.7W 10.6W(IR on)

Environmental

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

Construction

Casing	plastic
Dimensions	Ф180.5mm×131.4mm (7.11"×5.17")
Net Weight	0.51kg (1.12lb)
Gross Weight	0.73kg (1.61lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HDBW5241GP-Z	2MP WDR IR Dome AI Network Camera,PAL		
2MP camera	DH-IPC- HDBW5241GN-Z	2MP WDR IR Dome Al Network Camera, NTSC		
	IPC- HDBW5241GP-Z	2MP WDR IR Dome AI Network Camera,PAL		
	IPC- HDBW5241GN-Z	2MP WDR IR Dome AI Network Camera, NTSC		
Accessories (optional)	PFA701	Junction Box		

Accessories

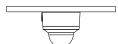
Optional:



PFA701 Junction Box

In-ceiling Mount	Ceiling Mount
	PFA701





Dimensions (mm/inch)

