

DH-IPC-HDPW5541G-Z

5MP 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

- · 1/2.7" 5Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@2592×1944
- · 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 Sp	ecification					Posalution	2592×1944/2688×1520/2304×1296/1080P(1920×1080)/1.3M(1280×960)/720P(1280×7
Camera			Resolution	20)/D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)			
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS				Frame Rate	Main Stream: 5M(1~20fps)
Effective Pixels		2592(H) x 1944(V)					Sub Stream: D1(1~20/30fps)
RAM/ROM		1GB/128MB					Third Stream: 1080P(1~13fps)
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~ 8192Kbps
Minimum Illumination		0.01Lux/F1.5 (Color,1/3s,30IRE) 0.09Lux/F1.5 (Color,1/30s,30IRE) 0Lux/F1.5 (IR on)				Day/Night	Auto(ICR) / Color / B/W
IR Distance		Distance up to 40m (131ft)				BLC Mode	BLC / HLC / WDR(120dB)
IR On/Off Contro	ol	Auto/ Manual				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR LEDs		3				Gain Control	Auto/Manual
Lens						Noise Reduction	3D DNR
		Motorized				Motion Detetion	Off / On (4 Zone, Rectangle)
Lens Type Mount Type		Board-in				Region of Interest	Off / On (4 Zone)
Mount Type Focal Length		2.7mm~13.5mm				Electronic Image Stabilization (EIS)	Support
Max. Aperture		F1.5				Smart IR	Support
Angle of View		H: 100°~28°, V:72°~21°(2592×1944)				Defog	Support
Optical Zoom		H: 104°~29°, V:55°~16°(2688×1520) 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)
DORI Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)	Audio	
	Т	212m(696ft)	85m(279ft)	42m(138ft)		Compression	G.711a/ G.711Mu/ AAC/ G.726/G.723
Pan/Tilt/Rota		,	, ,	,	,	Network	
Pan/Tilt/Rotatio		Pan•∩°~255°• Ti	lt:0°~75°; Rotati	on:0°~355°		Ethernet	RJ-45 (10/100Base-T)
	_	Pall.0 333, 11	it.0 73, Notati	011.0 333			HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP;SMTP;
Artificial Intel	ligence	Support face in	nage capture			Protocol	FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP;Q UPnP;NTP
			Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/ Disgusted/Confused/Frightened), Glasses, Mouth Mask,			Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P
Face Attributes		Disgusted/Con				Streaming Method	Unicast / Multicast
Perimeter Protec	tion	Moustache & E	Beard iion(Human & V	ehicle classifia	ation)	Max. User Access	20 Users
Perimeter Protec People Counting	uon		eople counting,			Edge Storage	NAS FTP Mirco SD card 256GB
General Intell	igence					Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
Ceneral Intell	.pcricc	Motion detecti	on, Video tamp	ering , Scene c	changing,	Management Software	Smart PSS, DSS, P2P
Event Trigger		Network disconnection , IP address conflict, Illegal Access, Storage anomaly			Illegal	Smart Phone	iOS, Android
General Intellige	ence	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					1 CC.47 CHATCE Part 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:2.4W 9.6W(IR on) PoE:2.9W 11W(IR on)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) /10%RH~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

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- HDPW5541GP-Z	5MP WDR IR Dome AI Network Camera,PAL
5MP camera	DH-IPC- HDPW5541GN-Z	5MP WDR IR Dome Al Network Camera, NTSC
	IPC- HDPW5541GP-Z	5MP WDR IR Dome AI Network Camera,PAL
	IPC- HDPW5541GN-Z	5MP WDR IR Dome AI Network Camera, NTSC
Accessories (optional)	PFA701	Junction Box

Accessories

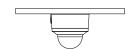
Optional:



PFA701 Junction Box

In-ceiling Mount	Ceiling Mount
	PFA701





Dimensions (mm/inch)

