

# DH-IPC-HDW5241H-AS-PV

2MP WDR IR 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 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. This series fully protected from dust and water, certified to IP67 standard.

#### **Functions**

#### **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.

- · 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
- · 2.8mm fixed lens (3.6mm, 6mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 40m
- · Micro SD memory, IP67











#### Active Deterrence

Active deterrence is to warn off intruders actively with white light and siren even before users are aware of the incidence. Once an intursion is detected, the white light will turn on and the siren will buzzer to alert the intruder. The white light can be set to Normally on or Flash, the content of siren is configurable.

#### 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.





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Technical Specification						
Camera	4 lo 0// 0.1					
Image Sensor	1/2.8" 2Megapixel progressive scan STARVIS™ CMOS					
Effective Pixels	1920(H) x 1080(V)					
RAM/ROM		512MB/128MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				
Minimum Illumination		0.002Lux/F1.6 ( Color,1/3s,30IRE) 0.012Lux/F1.6 ( Color,1/30s,30IRE)				
		OLux/F1.6(IR on)				
IR Distance		Distance up to 40m (131ft)				
IR On/Off Contro	ol	Auto/ Manua	al			
IR LEDs		1 IR, 1 LED	1 IR, 1 LED			
Lens						
Lens Type		Fixed				
Mount Type		Board-in				
Focal Length		2.8mm,3.6mm,6.0mm				
Max. Aperture		F1.6				
Angle of View		H: 106°, V:57°/H: 87°, V:46°/H: 53°, V:30°				
Optical Zoom		N/A				
Aperture Type		Fixed				
Close Focus Dista	ance	0.6m(1.97ft)/1.2m(3.94ft)/2.5m(8.20ft)				
	Lens	Detect	Observe	Recognize	Identify	
DODI Distance	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	
DORI Distance	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	
D /='11/D	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	
Pan/Tilt/Rotat						
Pan/Tilt/Rotation	-	Pan:0°~360°;	Tilt:0°~78°; Ro	otation:0°~36	0°	
Artificial Intell						
Perimeter Protec	ction		Tripwire, Intrusion(Human & Vehicle classification)			
People Counting		Line crossing people counting, Region people counting				
General Intelli	igence					
Front Tile			Motion detection, Video tampering , Scene			
Event Trigger			etwork disconi al Access,Stor			
General Intelligence		Object Aban	Object Abandoned/Missing			
Video						
Compression		H.265+/H.265/H.264+/H.264/H.264B/H.264H/				
		MJPEG(sub stream)				
Streaming Capability		3 Streams				
Resolution		1080P(1920×1080)/1.3M(1280×960)/720P(128 0×720)/D1(704×576/704×480)/VGA(640×480)/				
CIF(352×288/3			/352×240)			



# Pro Al Series | DH-IPC-HDW5241H-AS-PV

### Interface

Video Interface	N/A
Audio Interface	1/1 channel In/Out,Built-in MIC,Built-in Speaker
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 7.9W(IR on) PoE:2.6W 9.4W(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
Ingress Protection	IP67

# Construction

Casing	Metal, plastic
Dimensions	Ф122mm×113.5mm (4.80"×4.47")
Net Weight	0.49Kg (1.08lb)
Gross Weight	0.65Kg (1.43lb)

Ordering Information			
Туре	Part Number	Description	
2MP camera	DH-IPC- HDW5241HP- AS-PV	2MP WDR IR Eyeball Al Network Camera, WDR,PAL	
	DH-IPC- HDW5241HN- AS-PV	2MP WDR IR Eyeball AI Network Camera, WDR,NTSC	
	IPC-HDW5241HP- AS-PV	2MP WDR IR Eyeball Al Network Camera, WDR,PAL	
	IPC-HDW5241HN- AS-PV	2MP WDR IR Eyeball Al Network Camera, WDR,NTSC	
	PFA130-E	Junction box	
	PFA151	Corner Mount	
Accessories	PFB203W	Wall Mount	
(optional)	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





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)









