

# DH-IPC-HDW2541EMP-AS-ANZ

5MP IR Fixed-focal Eyeball Network Camera



Launched by Dahua Technology, It is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, provides intelligent, simple and inclusive products and solutions.

#### **Series Overview**

With advanced deep learning algorithm, Dahua 2 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

## **Functions**

#### **SMD Plus**

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

## Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

## **Perimeter Protection**

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @20 fps, and supports 2688 × 1520 (2688 × 1520) @25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply.
- IP67 protection.
- · SMD Plus.













## WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

#### **Cyber Security**

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

### Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical	Specification	on						Main stream: 2960 × 1668@(1–20 fps)/2688 × 1520@
Camera								(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30
Image Sensor		1/2.7" CMOS					Video Frame Rate	<ul><li>fps)</li><li>*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected</li></ul>
Max. Resolution		2960 (H) × 1688 (V)						to the total encoding capacity.
ROM		128 MB					Stream Capability	2 streams
RAM		256 MB					Resolution	2960 × 1668 (2960 × 1668); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (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)
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						
Min. Illumination		0.007 lux@F1.6 (Color, 30 IRE) 0.0007 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Bit Rate Control	CBR/VBR H.264: 32 kbps–8192 kbps
S/N Ratio		>56 dB					Video Bit Rate	H.265: 12 kbps–8192 kbps
Illumination	Illumination Distance		Up to 30 m (98.43 ft) (IR)				Day/Night	Auto(ICR)/Color/B/W
Illuminator C	On/Off Control	Auto; Manual					BLC	Yes
Illuminator N	Number	1 (IR LED)					HLC	Yes
Don/Tilb/Dob	ation Dance	Pan: 0°–360°					WDR	120 dB
Pan/Tilt/Rot	Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens							Gain Control	Auto; Manual
Lens Type	Lens Type		Fixed-focal				Noise Reduction	3D NR
Lens Mount		M12					Motion Detection	OFF/ON (4 areas, rectangular)
Focal Length		2.8 mm; 3.6 mm					Region of Interest (RoI)	Yes (4 areas)
Max. Apertu	Max. Aperture		F1.6				Smart Illumination	Yes
Field of View		2.8 mm: H: 111°; V: 58°; D: 132° 3.6 mm: H: 92°; V: 45°; D: 110°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Iris Control		Fixed					Mirror	Yes
Close Focus Distance		2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)					Privacy Masking	4 areas
	Lens	Detect	Observe	Recognize	Identify		Audio	
	2.8 mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (21.00 ft)		Built-in MIC	Yes
	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m		Audio Compression	G.711a; G.711Mu; PCM; G.726
DORI Distance		(280.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)		Alarm	
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
Intelligence				Network				
miemgence		Intrusion, tripwire (the two functions support the					Network Port	RJ-45 (10/100 Base-T)
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					SDK and API	Yes
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour; P2P
Video							Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					User/Host	20 (Total bandwidth: 48 M)
Smart Codec		Smart H.265+; Smart H.264+					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS

# DH-IPC-HDW2541EMP-AS-ANZ

Browser	IE Chrome Firefox
Management Software	SmartPSS Lite; DSS; DMSS
Mobile Client	iOS; Android
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification

## Certification

	CE-LVD: EN62368-1;
	CE-EMC: Electromagnetic Compatibility Directive
Certifications	2014/30/EU;
	FCC: 47 CFR FCC Part 15, Subpart B;
	UL/CUL: UL62368-1 & CAN/CSA C22 2 No. 62368-1-14

## Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.2 W (12 VDC); 2.9 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 4.1 W (12 VDC); 5.0 W (PoE)

## Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67

# Structure

Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal		
Product Dimensions	99.1 mm × Φ121.9 mm (3.90"× Φ4.80")		
Net Weight	0.48 kg (1.06 lb)		
Gross Weight	0.68 kg (1.50 lb)		

#### **Ordering Information** Type Model Description 5MP IR Fixed-focal Eyeball DH-IPC-HDW2541EMP-AS-ANZ 5MP Camera Network Camera PFA130-E Water-proof Junction Box PFB205W-E Wall Mount Bracket PFA152-E Pole Mount Bracket PFA109 Mount Adapter Accessories (Optional) PFB220C Ceiling Mount Bracket PFM321D 12 VDC 1A Power Adapter PFM900-E Integrated Mount Tester TF-P100 MicroSD Memory Card

## **Accessories**

# Optional:



PFA130-E Water-proof Junction Box



PFA109 Mount Adapter



PFB205W-E Wall Mount Bracket



PFB220C Ceiling Mount Bracket



Pole Mount Bracket



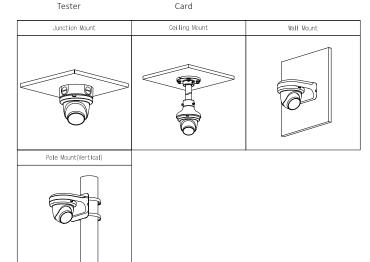
12 VDC 1A Power Adapter



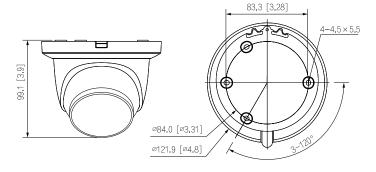
PFM900-E Integrated Mount



TF-P100 MicroSD Memory Card



# Dimensions (mm[inch])



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