

IPC-HDWN-E40P-SA

4MP IR Fixed-focal Eyeball Network Camera



Series Overview

The N Series camera is designed with simplicity for practicality. Plug and play, it immediately outputs images when connected to the Dahua NVR. It supports remote monitoring through the Dahua mobile app, and triggers alarms for motion detection, video tampering, and security exception, providing you with a convenient and secure IP service.

Functions

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.

Human Detection

Dahua intelligent algorithms extract moving human targets from videos and filters out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- Outputs max 4 MP (2560 × 1440)@30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max illumination distance is 30 m.
- DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Abnormality detection: Motion detection, video tampering, audio detection, network disconnection, IP conflict, and invalid access.
- Supports max. 256 G Micro SD card; built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- Supports human detection.



Technical Specification						Smart Codec	Smart H.265+; Smart H.264+
Camera						Video Frame Rate	Main stream: 2560 × 1440@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity
Image Sensor	1/3" CMOS						
Max. Resolution	2560 (H) × 1440 (V)						
ROM	16 MB						
RAM	64 MB						
Scanning System	Progressive						
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s						
Min. Illumination	0.03 lux@F2.0 (Color, 30 IRE) 0.003 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)						
S/N Ratio	>56 dB						
Illumination Distance	Up to 30 m (98.43 ft) (IR)						
Illuminator On/Off Control	Auto;Manual						
Illuminator Number	2 (IR LED)						
Angle Adjustment	Pan: 0° to 360° Tilt: 0° to 78° Rotation: 0° to 360°						
Lens						Video Bit Rate	H.264: 32 kbps–4096 kbps; H.265: 12 kbps–4096 kbps
Lens Type	Fixed-focal						
Lens Mount	M12					Day/Night	Auto(ICR)/Color/B/W
Focal Length	2.8 mm; 3.6 mm					BLC	Yes
Max. Aperture	F2.0					HLC	Yes
Field of View	2.8 mm: H: 95°; V: 53°; D: 111° 3.6 mm: H: 78°; V: 43°; D: 92°					WDR	Yes
Iris Control	Fixed					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Close Focus Distance	2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.3 m (4.27 ft)					Gain Control	Auto/Manual
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Noise Reduction	3D NR
	2.8 mm	61.6 m (202.10 ft)	24.6 m (80.71 ft)	12.3 m (40.35 ft)	6.2 m (20.34 ft)	Motion Detection	OFF/ON (4 areas, rectangular)
	3.6 mm	76.0 m (249.34 ft)	30.4 m (99.74 ft)	15.2 m (49.87 ft)	7.6 m (24.93 ft)	Region of Interest (RoI)	Yes (4 areas)
	*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.					Smart Illumination	Yes
Intelligence						Image Rotation	0°/180°
Human Detection	Supports the classification and accurate detection of human					Mirror	Yes
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Privacy Masking	4 areas
Video						Audio	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream)					Built-in MIC	Yes, built-in Mic
						Audio Compression	G.711a; G.711Mu; PCM; G.726
						Alarm	
						Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; invalid access; motion detection; video tampering; security exception; audio detection; SMD (human)
						Network	
						Network Port	RJ-45 (10/100 Base-T)
						Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
						Interoperability	ONVIF (Profile S & Profile T); CGI
						User/Host	6 (Total bandwidth: 24 M)
						Storage	FTP; Micro SD card (support max 256 GB)
						Browser	IE; Chrome; Firefox
						Management Software	SmartPSS Lite; DSS; DMSS; DoLynk Care

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Mobile Client	IOS;Android
Security	Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
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Power

Power Supply	12 VDC (±30%); PoE (802.3af)
Power Consumption	Basic: 1.2 W (12 VDC); 2.6 W (PoE) Max (H.265 + Intelligence + WDR + IR on): 2.7 W (12 VDC); 4.3 W (PoE)

Environment

Operating Temperature	−40 °C to +50 °C (−40 °F to +122 °F)
Operating Humidity	≤95% (RH), non-condensing
Storage Temperature	−40 °C to +60 °C (−40 °F to +140 °F)
Storage Humidity	≤95% (RH), non-condensing
Protection	IP67
Anti-corrosion Level	Basic Protection *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.

Structure

Casing Material	Plastic
Product Dimensions	103.2 mm × Φ109.9 mm (4.06" × Φ4.33")
Net Weight	0.24 kg (0.53 lb)
Gross Weight	0.38 kg (0.84 lb)

Ordering Information

Type	Model	Description
Accessories (Optional)	DH-IPC-T1E40-SA	4MP ECO IR Fixed-focal Eyeball Network Camera
	DH-PFA109	Mount Adapter
	DH-PFB220C	Ceiling Mount Bracket
	DH-PFA151	Corner Mount Bracket
	DH-PFB305W	Wall Mount Bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFB2203W	Wall Mount Bracket
	DH-PFA152-E	Pole Mount Bracket
	DH-PFA13G	Junction Box
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM325D-1210EN	DC12V 1A Power Adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester

Type	Model	Description
Accessories (Optional)	DHI-TF-W100-256GB	MicroSD Card
	DHI-TF-P100/256GB	MicroSD Card

Accessories

Optional:



DH-PFA109
Mount Adapter



DH-PFB220C
Ceiling Mount Bracket



DH-PFA151
Corner Mount Bracket



DH-PFB305W
Wall Mount Bracket



DH-PFA150
Pole Mount Bracket



DH-PFB2203W
Wall Mount Bracket



DH-PFA152-E
Pole Mount Bracket



DH-PFA13G
Junction Box



DH-PFM321-EN
DC12V1A power adapter



DH-PFM325D-1210EN
DC12V 1A Power Adapter



DH-PFM320D-EN
DC12V2A power adapter



PFM900-E
Integrated Mount Tester



DHI-TF-W100-256GB
MicroSD Card



DHI-TF-P100/256GB
MicroSD Card