

DH-IPC-HFW5442E-ZE

4MP Pro AI IR Vari-focal Bullet Network Camera



System Overview

La serie Pro AI contiene funciones de detección de rostros, protección perimetral y conteo de personas, impulsadas por algoritmos de inteligencia artificial de aprendizaje profundo, precisión significativamente mejorada. Mientras tanto, la serie cuenta con tecnología IR inteligente y luz de estrella. Esta serie está totalmente protegida del polvo y el agua, certificada según IP67 y resistente al vandalismo según la norma IK10.

Funciones

Detección de rostro

Face Detection 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 surveillance system efficiency.

- 1/1.8" 4Megapixel progressive scan CMOS
- H.265 & H.264 triple-stream encoding
- 25/30 fps@2688 × 1520, 50/60 fps@1080P(1920 × 1080)
- WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- 2.7 mm – 12.0 mmmotorized lens
- 2/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 50 m
- Micro SD memory, IP67, IK10



Contando personas

La función de conteo de personas utiliza tecnología avanzada de procesamiento de imágenes para capturar información de profundidad desde dentro de las imágenes. La cámara combina esta información con algoritmos de aprendizaje profundo para analizar y detectar cuerpos humanos y rastrear objetos de destino en tiempo real. La cámara proporciona estadísticas para la entrada y salida de individuos separados con una precisión de conteo de hasta el 95%.

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.

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Protection(IP67, IK10, 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) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

Technical Specification						
Camera						
Image Sensor	1/1.8" 4Megapixel progressive scan CMOS 2688 (H) ×					
Effective Pixels	1520 (V)					
RAM/ROM	1 GB/128 MB					
Scanning System	Progressive					
Electronic Shutter Speed	Auto/Manual, 1/3 s–1/100000 s					
Minimum Illumination	0.003 Lux@F1.8					
IR Distance	Distance up to 50 m (164 ft)					
IR On/Off Control	Auto/Manual					
IR LEDs	4					
Lens						
Lens Type	Motorized vari-focal					
Mount Type	Board-in					
Focal Length	2.7 mm–12.0 mm					
Max. Aperture	F1.8					
Angle of View	H: 114°–47°, V: 62°–26°					
Aperture Type	Auto					
Close Focus Distance	1.2 m (3.94 ft)					
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	W	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)	
	T	131m(430ft)	52m(171ft)	26m(85ft)	13m(43ft)	
Pan/Tilt/Rotation						
Pan/Tilt/Rotation Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360					
Artificial Intelligence						
Face Detection	Support face image capture					
Face Attributes	Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly, Surprise, Normal, Rage, Sad, Disgusted, Confused, Frightened), Glasses, Mouth Mask, Moustache & Beard					
Perimeter Protection	Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering					
People Counting	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection					
General Intelligence						
Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly					
General Intelligence	Object Abandoned/Missing					
Heat Map	Yes					
Vídeo						
Compresión	H.265, H.264, H.264B, H.264H, MJPEG (subflujos)					
Smart Codec	Yes					
Streaming Capability	3 Streams					
Resolution	2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)					
Frame Rate	Main Stream: 2688 × 1520 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps) Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps) Third Stream: 1080P (1 fps–16 fps) CBR/VBR					
Bit Rate Control						
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps					
Day/Night	Auto(ICR)/Color/B/W					
BLCMode	BLC/HLC/WDR (140 dB)					
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual					
Gain Control	Auto/Manual					
Noise Reduction	3D DNR					
Motion Detection	Off/On (4 Zone, Rectangle)					
Region of Interest	Off/On (4 Zone)					
Electronic Image Stabilization (EIS)	Yes					
Smart IR	Yes					
Defog	Yes					
Flip	0°/90°/180°/270°					
Mirror	Off/On					
Privacy Masking	Off/On (4 Area, Rectangle)					
Audio						
Compression	G.711a, G.711Mu, AAC, G.726, G.723					
Network						
Ethernet	RJ-45 (10/100 Base-T)					
Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP ;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP ;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP					
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milestone, Genetec, P2P					
Streaming Method	Unicast/Multicast					
Max. User Access	20 Users					
Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB					
Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)					
Software de gestión	Smart PSS, DSS, DMSS					
Teléfono inteligente	iOS, Android					
Certificaciones						

Certificaciones	CE-LVD: EN60950-1 CE-EMC: Directiva de compatibilidad electromagnética 2014/30 / UE
	FCC: 47 CFR FCC Parte 15, Subparte B
	UL / CUL: UL60950-1 CAN / CSA C22.2 No.60950-1-07

Interfaz

Interfaz de audio	1/1 canal de entrada / salida
RS485	N / A
Alarma	Entrada de 2 canales: 5 mA 5 V CC Salida de 1 canal: 300mA 12V DC

Eléctrico

Fuente de alimentación	DC 12V (± 30%), PoE (802.3af) (Clase 0)
El consumo de energía	<10,9 W

Ambiental

Condiciones de operación	- 30 ° C a + 60 ° C (-22 ° F a + 140 ° F) / Menos del 95% de humedad relativa
Condiciones de almacenamiento	- 30 ° C a + 60 ° C (-22 ° F a + 140 ° F)
Protección de ingreso	IP67
Resistencia al vandalismo	IK10

Construcción

Caja	Metal, plastico
Dimensiones	273,2 mm x 95,0 mm x 95,0 mm (10,76 "x 3,74 " x 3,74 ")
Peso neto	1,11 kg (2,44 libras)
Peso bruto	1,51 kg (3,33 libras)

Información sobre pedidos

Tipo	Número de pieza	Descripción
Cámara de 4MP	DH-IPC-HFW5442EP-ZE	Cámara de red bullet varifocal de 4MP Pro AI IR, WDR, PAL
	DH-IPC-HFW5442EN-ZE	Cámara de red bullet varifocal de 4MP Pro AI IR, WDR, NTSC
	IPC-HFW5442EP-ZE	Cámara de red bullet varifocal de 4MP Pro AI IR, WDR, PAL
	IPC-HFW5442EN-ZE	Cámara de red bullet varifocal de 4MP Pro AI IR, WDR, NTSC
Accesorios (Opcional)	PFA152-E	Montaje en poste

Accesorios

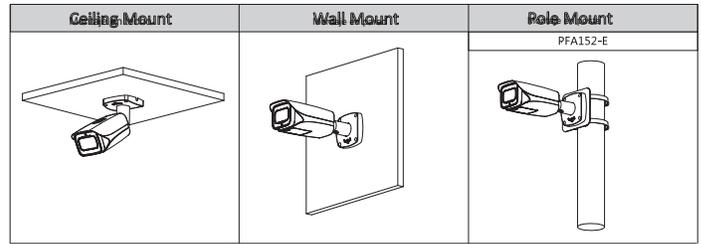
Opcional:



PFA152-E
Montaje en poste



LR1002
Convertidor ePoE sobre coaxial



Dimensiones (mm [pulgadas])

