

DH-IPC-HFW5241E-ZE

2MP Pro AI IR Vari-focal Bullet Network Camera



System Overview

Pro AI series contains Face Detection, 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 and vandal resistant to IK10 standard.

Functions

Face Detection

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.

- 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- H.265 & H.264 triple-stream encoding
- 25/30 fps@1080P (1920 × 1080)
- WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- 2.7 mm–13.5 mm motorized lens
- 2/1 Alarm in/out, 1/1 audio in/out
- Max. LED IR Longitud 50 m
- Memoria Micro SD, IP67, IK10



Cuenta de personas

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

Metadatos

Los metadatos son información de atributos de características extraída de un objeto de destino que se puede utilizar para la recuperación de datos. La cámara de detección de rostros Dahua puede extraer seis atributos faciales y generar los metadatos para su análisis.

tecnología ePoE

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 $\pm 30\%$ 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	1/2.8" 2Megapixel progressive scan STARVIS™ CMOS				
Effective Pixels	1920 (H) × 1080 (V)				
RAM/ROM	512 MB/128 MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual, 1/3 s – 1/100000 s				
Minimum Illumination	0.002 Lux@F1.5				
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 – 13.5 mm				
Max. Aperture	F1.5				
Angle of View	H: 109° – 30°, V: 57° – 17°				
Aperture Type	Auto				
Close Focus Distance	0.8 m (2.62 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	44m(144ft)	18m(59ft)	9m(30ft)	4m(13ft)
	T	146m(479ft) 58m(190ft) 29m(95ft)			15m(49ft)
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	Línea de apoyo cruzando / Región / En cola contando personas; Admite 4 accesos de detección independiente, 4 áreas de detección independiente				
Inteligencia general					
Disparador de eventos	Detección de movimiento, manipulación de video, cambio de escena, desconexión de red, conflicto de dirección IP, acceso ilegal, anomalía de almacenamiento				
Inteligencia general	Objeto abandonado / desaparecido				
Mapa de calor	Si				
Video					
Compresión	H.265, H.264, H.264B, H.264H, MJPEG (subtransmisión)				
Código inteligente	Si				
Capacidad de transmisión	3 corrientes				
Resolución	1080P (1920 × 1080) / 1.3 M (1280 × 960) / 720P (1280 × 720) / D1 (704 × 576/704 × 480) / VGA (640 × 480) / CIF (352 × 288/352 × 240)				
Cuadros por segundo	Transmisión principal: 1080P (1 fps– 25/30 fps) Transmisión secundaria: D1 (1 fps– 25/30 fps) Tercera transmisión: 1080P (1 fps– 6 fps)				
Control de velocidad de bits	CBR / VBR				
Velocidad de bits	H.264: 32 Kbps - 8192 Kbps H.265: 19 Kbps - 7424 Kbps				
Día / noche	Auto (ICR) / Color / B / W				
Modo BLC	BLC / HLC / WDR (120 dB)				
Balace de blancos	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)				
Management Software	Smart PSS, DSS, DMSS				
Teléfono inteligente	iOS, Android				
Certificaciones					
Certificaciones	CE-LVD: EN60950-1 CE-EMC: Directiva de compatibilidad electromagnética 2014/30 / EU 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	2 canales de entrada: 5mA 5V DC 1 canal de salida: 300mA 12V DC

Eléctrico

Fuente de alimentación	DC 12V (± 30%), PoE (802.3af) (Clase 0)
El consumo de energía	<10.3W

Ambiental

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

Construcción

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

Información sobre pedidos

Tipo	Número de pieza	Descripción
Cámara de 2MP	DH-IPC-HFW5241EP-ZE	2MP Pro AI IR Vari-focal Bullet Cámara de red, WDR, PAL
	DH-IPC-HFW5241EN-ZE	2MP Pro AI IR Vari-focal Bullet Network Camera, WDR, NTSC
	IPC-HFW5241EP-ZE 2MP PoE AI IR Vari-focal Bullet Network WDR, PAL	
	IPC-HFW5241EN-ZE	2MP Pro AI IR Vari-focal Bullet Network Camera, WDR, NTSC
Accesorios (opcional)	PFA152-E	Montaje en poste

Accesorios

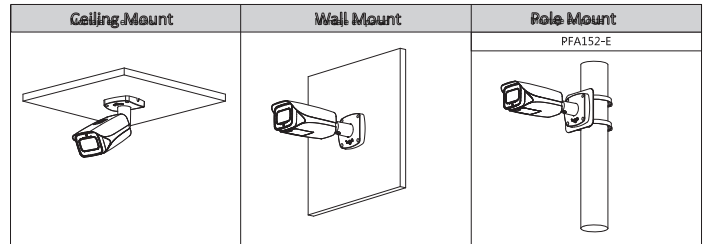
opcionales:



Montaje en poste
PFA152-E



LR1002 ePoE sobre
convertidor coaxial



Dimensiones (mm [pulgadas])

