

IPC-HDBW5442E-ZE

4MP Pro AI IR Vari-focal Dome Network Camera





Overview

Pro Al series contains Face Detection, Perimeter Protection and People Counting functions.Powered by deep-learning Artificial Intelligence algo- rithms, 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 Capture

Face capture is a software application that automatically captures faces from within a digital image or a video frame from a video source. The 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, The 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.

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.

Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Face detection camera can extract six facial attributes and output the metadata for analysis.



Technical Specification Camera Image Sensor 1/1.8" 4Megapixel progressive scan CMOS Effective Pixels 2688 (H) × 1520 (V) 1 GB/128 MB RAM/ROM Scanning System Progressive Electronic Shutter Speed Auto/Manual, 1/3 s-1/100000 s Color: 0.003 Lux@F1.8; Minimum Illumination Black&White:0.002Lux@F1.8, 0Lux@F1.8(IR On) IR Distance Distance up to 50 m (164 ft) IR On/Off Control Auto/Manual IR LEDS 3 Lens Motorized vari-focal Lens Type Mount Type Board-in 2.7 mm-12.0 mm Focal Length 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) Lens Detect Observe Recognize Identify 58m(190ft) 23m(75ft) DORI Distance W 12m(39ft) 6m(20ft) 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 Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly, Surprise, Normal, Rage, Face Attributes Sad, Disgusted, Confused, Frightened), Glasses, Mouth Mask, Moustache & Beard Tripwire, intrusion (Recognition of vehicle and Perimeter Protection people), fast moving, loitering detection, parking detection and people gathering Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, People Counting 4 areas independent detection **General Intelligence** Motion detection, Video tampering , Scene changing, Event Trigger Network disconnection , IP address conflict, Illegal Access, Storage anomaly Object Abandoned/Missing General Intelligence Heat Map Yes

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H.265,H.264,H.264B,H.264H, MJPEG (sub stream)

Video

Compression



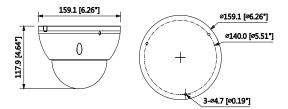
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Smart Codec	Yes
Streaming Capability	3 Streams
Resolution	2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
Frame Rate	Main Stream: 2688 × 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)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
Day/Night	Auto(ICR)/Color/B/W
BLC Mode	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;HTTP5;TCP;UDP;ARP;RTP;RTSP;RTCP ;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDN5;QoS;UPnP ;NTP;ICMP;IGMP;NFS;PPPoE;IEEE802.1x;SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, 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
Smart Phone	iOS, Android

Certifications

Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Interface		
Audio Interface	1/1 channel In/Out	
RS485	N/A	
Alarm	2 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC	
Electrical		
Power Supply	DC 12V or AC 24V (±30%), PoE (IEEE802.3af) (Class 0)	
Power Consumption	<12.4W	
Environmental		
Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH	
Strorage Conditions	-30° C to +60° C (-22° F to +140° F)	
Ingress Protection	IP67	
Vandal Resistance	IK10	
Construction		
Casing	Metal, plastic	
Dimensions	Φ159.0 mm × 117.9 mm (6.26" × 4.64")	
Net Weight	0.95 kg (2.09 lb)	
Gross Weight	1.20 kg (2.65 lb)	





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