

DH-IPC-HDW3849H-AS-PV-S3

8 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense 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, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 3 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

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

Smart Dual Illuminators

Dahua Smart Dual Illuminators technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the warm light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

SMD

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. • 8 MP 1/2.8" CMOS image sensor, low luminance, and high definition image.

- Outputs max. 8 MP (3840 × 2160)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED; the max. IR illumination distance is 30 m and warm light distance is 30 m.
- ROI, SMART H.264+/H.265+, AI 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 function support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; buit-in dual MICs; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- · Sound and light alarm (red and blue lights).
- SMD 3.0.
- One press arming/disarming through alarm input.



One-tap Disarming

Dahua One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

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 works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification

Camera						
Image Sensor		1/2.8" CMOS				
Max. Resolution		3840 (H) × 2160 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)				
S/N Ratio		> 56 dB				
Illumination Distance		30 m (98.43 ft) (IR) 30 m (98.43 ft) (warm light)				
Illuminator On/Off Control		Auto; manual				
Illuminator Number		1 (IR LED) 1 (warm light)				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Mount Type		M12				
Focal Length	Focal Length		2.8 mm; 3.6 mm			
Field of View		2.8 mm: Horizontal: 106°× Vertical: 55°× Diagonal: 125° 3.6 mm: Horizontal: 85°× Vertical: 45°× Diagonal: 100°				
Iris Type		Fixed				
Close Focus Distance		2.8 mm: 2.0 m (6.56 ft) 3.6 mm: 2.8 m (6.23 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	91.0 m (298.56 ft)	36.4 m (119.42 ft)	18.2 m (59.71 ft)	9.1 m (29.86 ft)	
	3.6 mm	107.6 m (353.02 ft)	43.0 m (141.08 ft)	21.5 m (70.54 ft)	10.8 m (35.43 ft)	
Professional, intelligent						

IVS (Perimeter Protection)	Tripwire; intrusion (Support the classification and accurate detection of vehicle and human)		
SMD 3.0	Less false alarm, longer detection distance		
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.		
Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
AI Coding	AI H.265; AI H.264		

Video Frame Rate	Main stream: 3840 × 2160@(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) Third stream: 1920 × 1080@(1 fps-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.		
Stream Capability	3 streams		
Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps		
Day/Night	Auto (ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto; manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas)		
Region of Interest (RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Defog	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)		
Mirror	Yes		
Privacy Masking	8 areas		
Audio			
Built-in MIC	Yes		
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; SMD; security exception		
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade		

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InteroperabilityONVIF (Profile S/Profile G/Profile T); CG; P2P; MilestoneUser/Host20 (Total bandwidth: 72 M)StorageFTP; SFTP; Micro SD card (Support max. 256 G); NASBrowserEi: IE8/9/11 FriefoxManagement SoftwareSmart PSS; DSS; DMSSMobile Phone05; AndroidCertificationCE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/U1; SC: 47 CFR FCC Part 15; Subpart B; ULCULUE2368-1 & CAN/CSA C22.2 No. 62368-1:41Audio Input1 channel (RCA port)Audio Output1 channel (RCA port)Audio Output1 channel u: 300 mA 12 VDCAudio Output1 channel out: 300 mA 12 VDCAudro ConsumptionSac: 2.9 VL2 VDC); S.0 V(POE) S.2 VL2 VDC); S.0 V(POE) S.2 VL2 VDC); S.0 V(POE)PowerSac: 2.9 VL2 VDC); S.0 V(POE) S.2 VL2 VDC); S.0 V(POE) S.2 VL2 VDC); S.0 V(POE) S.2 VL2 VDC); S.0 VL2 VDC);	Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP			
And and a series of the seri	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone			
IndexBrowserE: E86/9/11 ErrefoxManagement SoftwareSmart PSS; DMSSMobile PhoneIoS; AndroidCertificationCertificationCertificationCertificationCertificationCertificationPortCertificationAudio Output1 channel (RCA port)Audio Output1 channel in: 5 mA 3V-5 VDCAudio Output1 channel out: 300 mA 12 VDCPower2 VDC/PoE (802.3af)PowerSize: 2.9 W (12 VDC); 5.0 W (PoE)Power ConsumptionSize: 2.9 W (12 VDC); 5.0 W (PoE)Power Consumption-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage Conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage Conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHCisingMetalDimensions10.9 mm x 0122.0 mm (4.4° x 04.8")Autoget-10.9 mm x 0122.0 mm (4.4° x 04.8")	User/Host	20 (Total bandwidth: 72 M)			
BrowserChrome FirefoxManagement SoftwareSmart PSS; DSS; DMSSMobile PhoneIoS; AndroidCertificationE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/0/EU; 	Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS			
Nobile PhoneiOs; AndroidCertificationCE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; CC: 47 CFR FCC Part 15, Subpart B; Subport B;<	Browser	Chrome			
ActionCertificationCE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC Part 15, Subpart B; UL/CUL:UL62368-1 & CAN/CSA C22.2 No. 62368-1-14Port1Audio Input1 channel (RCA port)Audio Output1 channel (RCA port)Audio Output1 channel in: 5 mA 3V–5 VDCAlarm Input1 channel out: 300 mA 12 VDCAlarm Output1 2 VDC/PoE (802.3af)Power12 VDC/PoE (802.3af)Power ConsumptionBasic: 2.9 W (12 VDC); 5.0 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 7.8 W (12 VDC) 9.6 W (PoE)Fortection Grade-40 °C to +60 °C (-40 °F to +140 °F)/Less than 95% RHStorage Conditions-40 °C to +60 °C (-40 °F to +140 °F)/Less than 95% RHStorage Conditions10-9 mam × 0122.0 mm (4.4" × 04.8")Cimensions10.9 mm × 0122.0 mm (4.4" × 04.8")Max Weight10.9 mm × 0122.0 mm (4.4" × 04.8")	Management Software	Smart PSS; DSS; DMSS			
CertificationCE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL:UL62368-1 & CAN/CSA C22.2 No. 62368-1.14PortAudio Input1 channel (RCA port)Audio Output1 channel (RCA port)Audio Output1 channel (RCA port)Alarm Input1 channel out: 300 mA 12 VDCAlarm Output1 channel out: 300 mA 12 VDCPower2 VDC/PoE (802.3af)Power Supply1 2 VDC/PoE (802.3af)Power ConsumptionBasic: 2.9 W (12 VDC); 5.0 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 2.8 W (12 VDC) 9.6 W (PoE)Portionment	Mobile Phone	iOS; Android			
CertificationCE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL:ULG2368-18. CAN/CSA C22.2 No. 62368-1-14PortAudio Input1 channel (RCA port)Audio Output1 channel (RCA port)Alarm Input1 channel in: 5 mA 3V–5 VDCAlarm Output1 channel out: 300 mA 12 VDCPower1 channel out: 300 mA 12 VDCPower1 2 VDC/PoE (802.3af)Power Supply1 2 VDC/PoE (802.3af)Power Supply5 Sasic: 2.9 W (12 VDC); 5.0 W (PoE) Max. (H.265+main stream//R intensity+warm light on): 8.8 W (12 VDC) 9.6 W (PoE)Portionment	Certification				
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Protection GradeIP67StructureMetalCasingMetalDimensions110.9 mm × Φ122.0 mm (4.4" × Φ4.8")Net Weight745 g (163.1 lb)	Operating Conditions	–40 °C to +60 °C (–40 °F to +140 °F)/Less than 95% RH			
Structure Metal Casing Metal Dimensions 110.9 mm × Φ122.0 mm (4.4" × Φ4.8") Net Weight 745 g (163.1 lb)	Storage Conditions	-40 °C to +60 °C (-40 °F to +140 °F)			
Casing Metal Dimensions 110.9 mm × Φ122.0 mm (4.4" × Φ4.8") Net Weight 745 g (163.1 lb)	Protection Grade	IP67			
Dimensions 110.9 mm × Φ122.0 mm (4.4" × Φ4.8") Net Weight 745 g (163.1 lb)	Structure				
Net Weight 745 g (163.1 lb)	Casing	Metal			
	Dimensions	110.9 mm × Φ122.0 mm (4.4" × Φ4.8")			
Gross Weight 915 g (200.6 lb)	Net Weight	745 g (163.1 lb)			
	Gross Weight	915 g (200.6 lb)			

Ordering Information				
Туре	Model	Description		
8MP Camera	DH-IPC-HDW3849H-AS- PV-S3	8 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera		
	IPC-HDW3849H-AS-PV-S3	8 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera		
Accessories (Optional)	PFA137	Junction Box		
	PFB205W	Wall Mount Bracket		
	PFA106+PFB220C	Ceiling Mount Bracket		
	PFB205W+PFA152-E	Pole Mount Bracket		
	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	TLC SD Card		

Accessories

Optional:



PFA137

Junction Box



PFB205W

Wall Mount Bracket



PFA106+PFB220C Ceiling Mount Bracket



PFM321D

12 VDC 1A Power Adapter



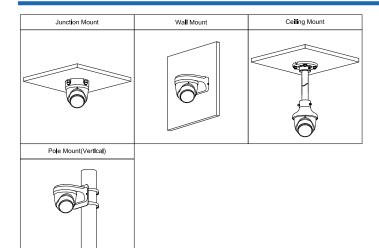


PFB205W+PFA152-E Pole Mount Bracket

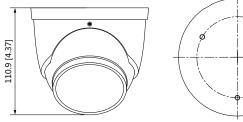


TF-P100 TLC SD Card

Wiz Sense | DH-IPC-HDW3849H-AS-PV-S3



Dimensions (mm[inch])





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