

# DH-IPC-HFW3649T1-AS-PV-ANZ

6MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet WizSense Network Camera





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 4.0**

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

- \* The parameters and datasheets below can only be applied to 3649-PV-ANZ series.
- 6-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 6 MP (3200 × 1800) @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 4.0.
- · One-click 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 work normally 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.

Technical Specification								Main stream: Main stream: 3200 × 1800@(1 fps-25/30 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.
Camera								
Image Sensor		1/2.7" CMOS					Video Frame Rate	
Max. Resolution		3200 (H) × 1800 (V)						
ROM		128 MB					Stream Capability	3 streams
RAM		512 MB					Resolution	6M (3200 × 1800); 5M (2880 × 1620);4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296/2048 × 1536); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA(640 × 480); CIF (352 × 288/352 × 240)
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE)					Bit Rate Control	CBR/VBR
S/N D .:		0 lux (illuminator on)					Video Bit Rate	H.264: 32kbps-8192 kbps H.265: 12kbps-8192 kbp
S/IN Ratio	S/N Ratio		> 56 dB				Day/Night	Auto (ICR)/Color/B/W
Illumination Distance		30 m (98.43 ft) (IR) 30 m (98.43 ft) (warm light)					BLC	Yes
Illuminator On/Off Control		Auto/Manual					HLC	Yes
Illuminator Number		2 (IR LED) 2 (warm light)					WDR	120 dB
		Pan: 0°-360°					Scene Self-adaptation	Yes
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens							Gain Control	Auto; manual
Lens Type		Fixed-focal					Noise Reduction	3D NR
Mount Type		M12					Motion Detection	OFF/ON (4 areas)
Focal Length		2.8 mm; 3.6 mm					Region of Interest (RoI)	Yes (4 areas)
Field of View		2.8 mm: H: 97°; V: 70°; D: 128° 3.6 mm: H: 78°; V: 58°; D: 102°					Smart Illumination	Yes
Iris Type		Fixed					Defog	Yes
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)
	Lens	Detect	Observe	Recognize	Identify		Mirror	Yes
DORI Distance	2.8 mm	66.0 m (216.54 ft)	26.4 m ( 86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)		Privacy Masking	8 areas
Distance	3.6 mm	78.0 m	31.2 m	15.6 m	7.8 m		Audio	
Intelligen	00	(255.91 ft)	( 102.36 ft)	(51.18 ft	(25.59 ft)		Built-in MIC	Yes
		Tripwire; intrusion (support the classification and					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
IVS (Perimeter Protection)		accurate detection of vehicle and human)					Alarm	
SMD 4.0		Less false alarm, longer detection distance					Alarm Event	No SD card; SD card full; SD card error; network
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.						disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					N	alarm; SMD; security exception
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					Network	
Video		or the image to suit the continuous.					Network	RJ-45 (10/100 Base-T)
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					SDK and API  Cyber Security	Yes  Video encryption; firmware encryption; configuration
Smart Codec		Smart H.265+; Smart H.264+						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
AI Coding		AI H.265; AI H.264						

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					
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P; RTMP					
User/Host	20 (Total bandwidth: 72 M)					
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS					
Browser	IE: IE8/9/11 Chrome Firefox					
Management Software	Smart PSS; DSS; DMSS					
Mobile Phone	iOS; Android					
Certification						
Certification	CE-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. 62368-1-14;					
Port						
Audio Input	1 channel (RCA port)					
Audio Output	1 channel (RCA port)					
Alarm Input	1 channel in: 5mA 3V–5 VDC					
Alarm Output	1 channel out: 300mA 12 VDC					
Power						
Power Supply	12 VDC/PoE (802.3af)					
Power Consumption	Basic: 3.3 W (12 VDC); 4.4 W (PoE) Max. (pulling stream+warning light+speaker+warm light on): 6.8 W (12 VDC); 8.2 W (PoE)					
Environment						
Operating Conditions	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})/\text{Less}$ than 95% RH					
Storage Conditions	-40 °C to +60 °C (-40 °F to +140 °F)					
Protection Grade	IP67					
Structure						
Casing	Metal + plastic					
Dimensions	288.4 mm × 94.4 mm × 84.7 mm (11.35" × 3.72" × 3.33") (L × W × H)					
Net Weight	1.0 kg (2.20 lb)					
Gross Weight	1.23 kg (2.71 lb)					

Ordering Information						
Type	Model	Description				
6MP	DH-IPC-HFW3649T1-AS- PV-ANZ	6MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet WizSense Network Camera				
Camera	IPC-HFW3649T1-AS-PV-ANZ	6MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet WizSense Network Camera				
	PFA135	Junction Box				
	PFA130-E	Water-proof Junction Box				
Accessories	PFA152-E	Pole Mount Backet				
(Optional)	PFM321D	12 VDC 1A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

# Accessories

# Optional:







PFA135 Junction Box

PFA130-E Water-proof Junction Box

PFA152-E Pole Mount Bracket



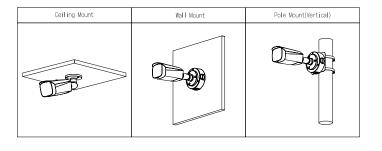
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



# Dimensions (mm[inch])

