



HNC3I389H-IRASPV/28-S5

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



Series Overview

Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Acupick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

Functions

Siren and Light Active Deterrence

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.

SMD 4.0

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.

Smart Dual Light

Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white 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 white light is off and the IR illuminator is on, which reduces light pollution efficiently.

One-tap Disarming

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.

* The parameters and datasheets below can only be applied to 3849-PV-S5 series.

- 8-MP 1/2.7" 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. 512 G Micro SD card; buit-in dual Mic; 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.
- Supports AI SSA and one-tap arming and disarming.
- · SMD area can be set in warm light areas that support triggering alarms.













Cyber Security

Diamond 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



AI SSA

Technical	Specification	on				
Camera						
Image Sensor		1/2.7" CMOS				
Max. Resolution		3840 (H) × 2160 (V)				
ROM		256 MB				
RAM		2 G				
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		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)				
Illuminator On/Off Control		Auto;Manual				
Illuminator Number		1 (IR LED); 1 (Warm light)				
Angle Adjustment		Pan: 0°-360° Tilt: 0°-78° Rotation: 0°-360°				
Lens						
Lens Type		Fixed-focal				
Lens Mount		M12				
Focal Length		2.8 mm; 3.6 mm				
Max. Aperture		F1.0				
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85; V: 45°; D: 102°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)				
	Lens	Detect	Observe	Recognize	Identify	
	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)	
DORI Distance	3.6 mm	78.0 m (255.91 ft)	22.2 m (102.36 ft)	15.6 m (51.18 ft)	7.8 m (25.59 ft)	
	for defining the objects within a function distant	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.				
Intelligen	ce					
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)				
SMD		SMD 4.0				
AcuPick		Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.				

Smart 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+		
Al Coding	AI H.265 (Compression rate ≥25%) AI H.264 (Compression rate ≥25%)		
Video Frame Rate	Main stream: $3840 \times 2160 @ (1 \text{ fps}-25/30 \text{ fps})$ Sub stream: $704 \times 576 @ (1-25 \text{ fps})/704 \times 480 @ (1-30 \text{ fps})$ Third stream: $1920 \times 1080 @ (1-25/30 \text{ fps})$ *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 × 1520/2560 × 1440); 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/ABR		
Video Bit Rate	H.264: 3 kbps–16384 kbps; H.265: 3 kbps–16384 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
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	4 areas		
LDC	Yes		
Audio			
Built-in MIC	Yes		
Built-in Speaker	Yes		
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723		

Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.



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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; intensity change; voltage detection; external alarm; SMD; security exception				
Network					
Network Port	RJ-45 (10/100 Base-T)				
SDK and API	Yes				
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP, SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP; P2P				
Interoperability	ONVIF (Profile S; Profile G;Profile T); CGI				
User/Host	20 (Total bandwidth: 64 M)				
Storage	FTP;SFTP; Micro SD card (support max. 256 GB); NAS				
Browser	IE: IE 9/11 Chrome Firefox				
Management Software	SmartPSS Lite; DSS; DMSS				
Mobile Client	iOS;Android				
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				
Certification					
Certifications	CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B				
Port					
Audio Input	1 channel (RCA port)				
Audio Output	1 channel (RCA port)				
Alarm Input	1 channel in: wet contact, 5 mA 3–5 VDC				
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC				
Power					
Power Supply	12 VDC; PoE				
Power Consumption	Basic: 4.5 W (12 VDC); 5.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 W (PoE)				
Environment					
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)				
Operating Humidity	≤95%				
Protection	IP67				
Structure					
Casing Material	Metal				
Product Dimensions	Ф122.0 mm × 110.9 mm (4.80" × Ф4.37")				
Net Weight	0.75 kg (1.65 lb)				
Gross Weight	0.92 kg (2.03 lb)				

Ordering Information					
Туре	Model	Description			
8MP Camera	HNC3I389H-IRASPV/28-S5	8MP Smart Dual Light Active Deterrence Fixed-focal Turret Network Camera			
	PFA137	Junction Box			
Accessories	PFB220C	Ceiling Mount Bracket			
(Optional)	PFA152-E	Pole Mount Bracket			

Accessories

Optional:





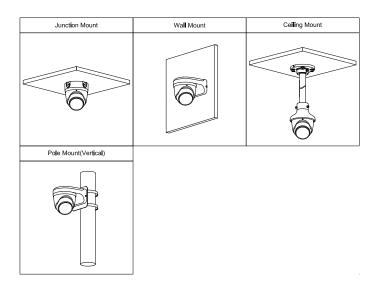


PFB220C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket





Dimensions (mm[inch])

