

HNC3IV389TM-IRASPV/28

8MP Smart Dual Illumination Fixed-focal Turret Network Camera



The Diamond series 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. HNC3IV389TM-IRASPV/28 provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, HNC3IV389TM-IRASPV/28 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

Smart Dual Illuminators

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 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.

SMD Plus

With intelligent algorithm, 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.

Perimeter Protection

With deep learning algorithm, Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- Outputs max. 8 MP (3840 × 2160) @20 fps, and supports 2688 × 1520 (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED, the max. illumination distance is 30 m and the max. warm light distance is 30 m.
- ROI, SMART 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 functions support the classification and accurate detection of vehicle and human).
- · Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- · IP67 protection.
- · SMD Plus.













Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Full-color

With high-performance sensor and large aperture lens, Full-color technology can display clear colorful image in the environment of ultralow illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

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

Technical Specification							Stream Capability	2 streams
Camera					3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048);			
Image Sensor		1/2.7" CMOS					Resolution	3072 × 1728 (3072 × 1728); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (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)
Max. Resolution		3840 (H) × 2160 (V)				Resolution		
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		256 MB						H.264: 32 kbps–8192 kbps
Scanning System		Progressive					Video Bit Rate	H.265: 12 kbps–8192 kbps
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Day/Night	Auto(ICR)/Color/B/W
Min Illustination		0.008 lux@F1.6 (Color, 30 IRE)					BLC	Yes
Min. Illumination		0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					HLC	Yes
S/N Ratio		>56 dB					WDR	120 dB
Illumination	Illumination Distance		30 m (98.43 ft) (IR); 30 m (98.43 ft) (Warm light)				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illuminator C	n/Off Control	Auto; Manual					Gain Control	Auto; Manual
Illuminator N	lumber	1 (IR LED); 1(Warm light)					Noise Reduction	3D NR
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°					Motion Detection	OFF/ON (4 areas, rectangular)
Lana		Rotation: 0°–360°					Region of Interest (RoI)	Yes (4 areas)
Lens		Fixed facel					Smart Illumination	Yes
Lens Type Lens Mount		Fixed-focal M12					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Focal Length		2.8 mm; 3.6 mm					Mirror	Yes
Max. Apertu	Max. Aperture		F1.6				Privacy Masking	4 areas
Field of View		2.8 mm: H: 111°; V: 58°; D: 132°					Audio	
		3.6 mm: H: 87°; V: 49°; D: 100°					Built-in MIC	Yes
Iris Control		2.8 mm: 1.5 m (4.92 ft)					Audio Compression	G.711a; G.711Mu; PCM; G.726
Close Focus Distance		3.6 mm: 1.9 m (6.23 ft)					Alarm	
	Lens	Detect	Observe	Recognize	Identify		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
DORI Distance	2.8 mm	84.8 m (278.22 ft)	33.9 m (111.22 ft)	17.0 m (55.77 ft)	8.5 m (27.89 ft)			
	3.6 mm	98.7 m (350.07 ft)	39.5 m (129.59 ft)	19.7 m (64.63 ft)	9.9 m (32.48 ft)		Network	
Intelligen	ce						Network Port	RJ-45 (10/100 Base-T)
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					SDK and API	Yes
Smart Search		human) Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					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; Boujour
Video							Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					User/Host	20 (Total bandwidth: 48 M)
Smart Codec		Smart H.265+; Smart H.264+					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Video Frame Rate		Main stream: $3840 \times 2160 \ @(1-20 \ fps)/2688 \times 1520 @(1-25/30 \ fps)$ sub stream: $704 \times 576 @(1-25 \ fps)/704 \times 480 @(1-30 \ fps)$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.					Browser	IE Chrome Firefox
							Management Software	Smart PSS; DSS; DMSS
							Mobile Client	iOS; Android

Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generatio and importing of X.509 certification			
Certification				
Certifications	CE-LVD: EN62368-1 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			
Power				
Power Supply	12 VDC/PoE (802.3af)			
Power Consumption	Basic: 2.6 W (12 VDC); 3.3 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + warm light intensity + IVS): 5 W (12 VDC); 5.9 W (PoE)			

Environment

Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67

Structure

Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal		
Product Dimensions	99.1 mm × Φ121.9 mm (3.90"× Φ4.80")		
Net Weight	0.48 kg (1.06 lb)		
Gross Weight	0.62 kg (1.37 lb)		

Ordering Information					
Туре	Model	Description			
8MP Camera	HNC3IV389TM-IRASPV/28	8MP Smart Dual Illumination Fixed-focal Turret Network Camera			
	PFA130-E	Water-proof Junction Box			
	PFB205W-E	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
Accessories	PFA109	Mount Adapter			
(Optional)	PFB220C	Ceiling Mount Bracket			
	PFM321D	12 VDC 1A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

Accessories

Optional:



PFA130-E Water-proof Junction Box



Bracket



PFA152-E Pole Mount Bracket

Dimensions (mm[inch])

