

HNC3I249E-ASN1/28

4MP Full-color Fixed-focal Dome Network Camera



The Diamond Series is a series of AI products and solutions that adopt an 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 the advanced technologies, Diamond Series provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Diamond 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

Full-color

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

SMD Plus

With intelligent algorithm, the 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.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, the 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.

- 4MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @ 30 fps
- H.256 coding, high compression rate, low bit rate
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 protection
- · SMD Plus













Perimeter Protection

With deep learning algorithm, the 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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

WDR

With advanced Wide Dynamic Range (WDR) technology, this network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Protection (IP67, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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						WDR	120 dB		
Camera				White Balance	Auto/natural/street lamp/outdoor/manual/regional				
Image Sensor		1/2.7"4Megapixel progressive CMOS					Gain Control	custom Auto/Manual	
Max. Resolution		2688 (H) × 1520 (V)					Noise Reduction	3D DNR	
ROM		128 MB					Motion Detection	OFF/ON (4 areas, rectangular)	
RAM		512 MB					Region of Interest (RoI)	Yes (4 areas)	
Scanning System		Progressive					. ,	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Image Rotation	resolution and lower.)	
Min. Illumination		0.003 Lux @ F1.0					Mirror	Yes	
S/N Ratio		> 56 dB					Privacy Masking	4 areas	
D /T:1/ /D		Pan: 0°–355°					Audio		
Pan/Tilt/Rotatio	on Range	Tilt: 0°–65° Rotation: 0°–355°					Audio Compression	G.711a; G.711Mu; G726; AAC	
Lens							Alarm		
Lens Type		Fixed-focal						No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene	
Mount Type		M12					Alarm Event		
Focal Length		2.8 mm						changing; input abnormal; intensity change; tripwire; intrusion; SMD	
Max. Aperture		F1.0					Network		
Field of View		2.8 mm: Hori	zontal 103° × v	ertical 53° × dia	agonal 122°		Network	RJ-45 (10/100 Base-T)	
Iris Type		Fixed					SDK and API	Yes	
Close Focus Distance		2.8 mm: 1.2 m (3.9 ft)					Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP	
	Lens	Detect	Observe	Recognize	Identify		Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
DORI Distance	2.8 mm	25.0 m (82.0 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6 m (18.4 ft)		Scene self-adaptation	Yes	
							User/Host	20 (Total bandwidth: 64M.)	
Professional	, Intellige	ent					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Manufactuer's Cloud; NAS	
Perimeter Prote	ction	Tripwire, intrusion (Recognition of vehicle and people)					Browser	IE: IE8; IE9; IE11	
Intelligent Searc	·h	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event						Chrome Firefox	
intelligent Scare	.11	videos					Management Software	Smart PSS; DSS; DMSS	
Video							Mobile Phone	IOS; Android	
Video Compress	sion	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Certification		
Smart Codec		Smart H.265+/ Smart H.264+						CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive	
Video France Dat	٠.	Main stream (2688 × 1520 @ 1–25/30 fps)					Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	
Video Frame Rate		sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720 @ 1–25/30 fps)					Port	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Stream Capability		3 streams					Audio Input	1 channel (RCA port)	
Resolution		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352					Audio Output	1 channel (RCA port)	
		× 240)					Alarm Input	1 channel in: 5mA 3V–5V DC	
Bit Rate Control		CBR; VBR					Alarm Output	1 channel out: 300mA 12V DC	
Video Bit Rate		H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps					Power		
Day/Night		Color/B/W					Power Supply	12V DC/PoE	
BLC		Yes					Power Consumption	< 4.4W	

Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than 95%
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67; IK10

Structure

Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")
Net Weight	378 g (0.8 lb)
Gross Weight	523 g (1.2 lb)

Ordering Information					
Туре	Part Number	Description			
4MP	HNC31249E-ASN1/28	4MP Full-color Fixed-focal Dome WizSense Network Camera,PAL			
Camera	HNC31249E-ASN1/28	4MP Full-color Fixed-focal Dome WizSense Network Camera,NTSC			
	PFA136	Junction Box			
	PFA200W	Rain Shade			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA106	Mount Adapter			
Accessories (optional)	PFB220C	Celling Mount			
	PFM321D	DC12V1A Power Adapter			
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD Card			

Accessories

Optional:







PFA136 Junction Box

PFA200W Rain Shade

PFB203W Wall Mount







PFA152-E Pole Mount

PFA106 Mount Adapter

PFB220C Ceiling Mount

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])



