

# HNC3I149E-ASN1/28

4MP Full-color Warm LED Fixed-focal Bullet Network Camera



The Diamond Series is a series of AI products and solutions that adopts 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, the Diamond Series provides intelligent, simple and inclusive products and solutions.

#### **Series Overview**

With advanced deep learning algorithm, the 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 a high-performance sensor and large aperture lens, Full-color technology can display a 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, 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, 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.265 codec, high compression rate, ultra-low bit rate
- · Built-in Warm LED, max. LED distance: 30 m
- 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 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, built-in Mic
- 12V DC/PoE power support
- IP67 protection
- · SMD Plus













#### **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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

#### **WDR**

With advanced Wide Dynamic Range (WDR) technology, the Diamond Series 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, 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.



Technical Sp	ecificatio	on				WDR		120 dB	
Camera						White Balanc	e	Auto/natural/street lamp/outdoor/manual/regional	
Image Sensor		1/2.7"4Megapixel progressive CMOS				Gain Control	custom  Gain Control  Auto/Manual		
Max. Resolution		2688 (H) ×1520 (V)					loise Reduction 3D DNR		
ROM		128 MB				Motion Detec			
RAM		512 MB					Region of Interest (Rol)  Yes (4 areas)		
Scanning System		Progressive					Smart Illumination Yes		
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100, 000 s					0°/90°/180°/270° (Support 90°/270° with 1920 x 1080		
Min. Illumination		0.003 Lux @ F1.0				Image Rotatio	Image Rotation resolution and lower.)		
S/N Ratio		> 56 dB				Mirror	Yes		
Illumination Distance		30 m (98.4 ft)				Privacy Mask	ing	g 4 areas	
Illuminator On/Off Control		Auto/Manual				Audio	Audio		
Illuminator Num	Illuminator Number		)			Built-in MIC		Yes	
Pan/Tilt/Rotation Range		Horizontal:0°	'-360°;Vertical:	0°-90°;Rotatior	n:0°-360°	Audio Compr	ession	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		3.6 mm						changing; input abnormal; intensity change; tripwire; intrusion; SMD	
Max. Aperture		F1.0				Network			
Field of View		3.6 mm: Horizontal 80° × vertical 43° × diagonal 95°				Network			
Iris Type		Fixed				SDK and API		Yes	
Close Focus Distance		3.6 mm: 2.4 m (7.9 ft)						IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP;	
DORI Distance	Lens 3.6mm	Detect 80.0 m	Observe 32.0 m	Recognize 16.0 m	Identify 8.0 m	Protocol		RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP	
D (		(262.5 ft)	(105.0 ft)	(52.5 ft)	(26.3 ft)	Interoperabil	ity	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
Professional,		ent Tripwire, intrusion (Recognition of vehicle and people)				Scene self-ad	aptation	Yes	
Perimeter Protection			, ,		,	User/Host		20 (Total bandwidth: 64M.)	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Storage		FTP; SFTP; Micro SD Card (support max. 256 G); Manufacturer's Cloud; NAS	
Video Video Compression				64B; MJPEG(onl	y supported by	Browser		IE: IE8; IE9; IE11 Chrome Firefox	
·		the sub strea	,			Management	Software	Smart PSS; DSS; DMSS	
Smart Codec			+/ Smart H.264 (2688 × 1520			Mobile Phone	9	IOS; Android	
Video Frame Rate		Main stream (2688 × 1520 @ 1–25/30 fps) sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720 @ 1–25/30 fps)				Certificati	Certification		
Stream Capability		3 streams						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	
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 × 240)				Certifications	;		
Bit Rate Control		CBR; VBR				Port	Port		
Video Bit Rate		H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps				Audio Input		1 channel (RCA port)	
Day/Night		Color/B/W				Audio Output		1 channel (RCA port)	
BLC		Yes				Alarm Input		1 channel in: 5mA 3V–5V DC	

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Alarm Output	1 channel out: 300mA 12V DC		
Power			
Power Supply	12V DC/PoE		
Power Consumption	< 8.4W		
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		
Structure			
Casing	Metal		
Dimensions	192.7 mm × 70.5 mm × 66.4 mm (632.2" × 231.3" × 217.8") (L × W × H)		

590 g (1.3 lb)

780 g (1.7 lb)

Ordering Information							
Туре	Part Number	Description					
4MP	DH-IPC-HFW3449EP-AS-LED	4MP Full-color Warm LED Fixed- focal Bullet WizSense Network Camera,PAL					
Camera	DH-IPC-HFW3449EN-AS-LED	4MP Full-color Warm LED Fixed- focal Bullet WizSense Network Camera,NTSC					
	PFA134	Junction Box					
	PFA152-E	Pole Mount					
Accessories	PFM321D	DC12V1A Power Adapter					
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender					
	PFM900-E	Integrated Mount Tester					
	PFM114	TLC SD Card					

## Accessories

Net Weight

Gross Weight

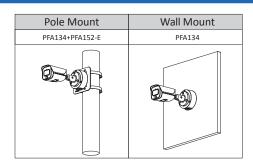
## **Optional:**





PFA134 Junction Box

PFA152-E Pole Mount



# Dimensions (mm[inch])

