

DH-IPC-HFW2231T-ZAS-S2

2MP WDR IR Bullet Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs 2MP (1920 × 1080)@25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 60 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storageenvironments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, local alarm, voltage detection, audio abnormal
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB MicroSD card
- 12V DC/PoE power support
- IP67 protection, IK10 protection (optional)













System Overview

With upgraded H.265 encoding technology, Dahua Lite series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function, complying to the standards of IP67.

Functions

Smart(H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

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 instablevoltage.



Technical Specification							Video Bit Rate	H.264: 32 Kbps–6144 Kbps
Camera				video bit nate	H.265: 12 Kbps-6144 Kbps			
Image Sensor		1/2.8" 2Megapixel progressive CMOS					Day/Night	Auto(ICR)/Color/B/W
Effective Pixels		1920 (H) × 1080 (V)					BLC	Yes
ROM			128 MB				HLC	Yes
							WDR	120 dB
	RAM Scanning System		128 MB				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Scanning System		Progressive					Gain Control	Auto/Manual
Electronic Shutter Speed		Auto/Manual 1/3 s=1/100000 s					Noise Reduction	3D DNR
Min. Illumination		0.002 Lux@F1.5 OLux@F1.5 Black/White(IR on)					Motion Detection	OFF/ON (4 areas, rectangular)
IR Distance	IR Distance		60 m (196.85 ft)				Region of Interest(RoI)	Yes (4 areas)
IR On/Off Contro	IR On/Off Control		Auto/Manual				Smart IR	Yes
IR LEDs Number	IR LEDs Number		4				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)
Pan/Tilt/Rotation	n Range	Pan: 0°-360° Tilt: 0°-90°					Mirror	Yes
Lama		Rotation: 0°-	360°				Privacy Masking	4 areas
Lens Type		Motorized vari-focal					Audio	
Mount Type		ф14					Audio Compression	G.711a; G.711Mu; G.726; AAC
Focal Length		2.7 mm–13.5 mm					Network	G.7118, G.711Wa, G.720, AAC
Max. Aperture		F1.5					Network	RJ-45 (10/100 Base-T)
Field of View		Pan: 109°–28° Tilt: 57°–16° Diagonal: 131°–33°					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;
Iris Type		Fixed apertur	Fixed aperture					Bonjour; SNMP
Close Focus Distance		0.8 m-0.8 m (2.62 ft-2.62 ft)					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
	Lens	Detect	Observe	Recognize	Identify		User/Host	20
DORI Distance	W	44.1 m (144.69 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Smart Event	Т	151.7 m (497.70 ft)	60.6 m (198.82 ft)	30.3 m (99.41 ft)	15.1 m (49.65 ft)		Browser	IE Chrome Firefox
General IVS Anal		Trinwire: intri	usion				Management Coftware	
Video	ytics	Tripwire; intrusion					Management Software	Smart PSS; DSS; DMSS
							Mobile Phone	IOS; Android
Video Compressi	on	H.265; H.264; H.264B; MJPEG					Certification	
Smart Codec	Smart Codec							CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive
Video Frame Rat	Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream:				Certifications	Certifications 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
		704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Port	
Stream Capabilit	Stream Capability		2 streams				Audio Input	1 channel (RCA port)
			1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280				Audio Output	1 channel (RCA port)
Resolution			04 × 576/704 ×				Alarm Input	1 channel In: 5mA 5VDC
Bit Rate Control		CBR/VBR					Alarm Output	1 channel Out: 300mA 12VDC
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Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 9.6W

Environment

Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than \leq 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67;IK10(optional)		

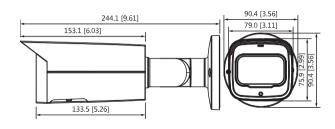
Structure

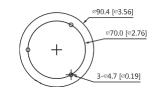
Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.9 kg (1.98 lb)
Gross Weight	1.15 kg (2.54 lb)

Ordering Information				
Туре	Part Number	Description		
2MP	DH-IPC-HFW2231TP-ZAS-S2	2MP WDR IR Bullet Network Camera,PAL		
Camera	DH-IPC-HFW2231TN-ZAS-S2	2MP WDR IR Bullet Network Camera,NTSC		
	PFA130-E	Junction Box		
	PFA152-E	Pole Mount		
	PFM321D	DC12V1A Power Adapter		
Accessories (optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender		
	PFM900-E	Integrated Mount Tester		
	PFM114	TLC SD Card		

Pole Mount PFA130-E+PFA152-E PFA130-E

Dimensions (mm[inch])





Accessories

Optional:



PFA130-E Junction Box



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

