

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 H.265: 12 Kbps-6144 Kbps
Camera							Day/Night	Auto(ICR)/Color/B/W
Image Sensor		1/2.8" 2Megapixel progressive CMOS					BLC	Yes
Effective Pixels		1920 (H) × 1080 (V)					HLC	Yes
ROM		128 MB					WDR	120 dB
RAM		128 MB						Auto/natural/street lamp/outdoor/manual/regional
Scanning System		Progressive					White Balance	custom
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					Gain Control	Auto/Manual
Min. Illumination		0.002 Lux@F1.5(Color) ,0.001Lux @ F1.5(Black&White)					Noise Reduction	3D DNR
		0Lux@F1.5 (Black&White , IR on)					Motion Detection	OFF/ON (4 areas, rectangular)
IR Distance		60 m (196.85 ft)					Region of Interest(RoI)	Yes (4 areas)
IR On/Off Contro	ol	Auto/Manual					Smart IR	Yes
IR LEDs Number		4 Pan: 0°–360°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower.)
Pan/Tilt/Rotatio	n Range	Tilt: 0°–90° Rotation: 0°–	360°				Mirror	Yes
Lens	Lens		300				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	
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; IEEE80.2.1x; Bonjour; SNMP
Iris Type		Fixed aperture						
Close Focus Distance		0.8 m-0.8 m (2.62 ft-2.62 ft)					Interoperability	ONVIF version 2.3 (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	T	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
		T						Firefox
General IVS Anal	lytics	Tripwire; intrusion					Management Software	Smart PSS; DSS; DMSS
Video							Mobile Phone	IOS; Android
Video Compressi	ion	H.265; H.264; H.264B; MJPEG					Certification	
Smart Codec Video Frame Rate		Yes Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream:					Certifications	CE-LVD: EN60950-1 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
		704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Port	
Stream Capability		2 streams					Audio Input	1 channel (RCA port)
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280					Audio Output	1 channel (RCA port)
		×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Alarm Input	1 channel In: 5mA 5VDC
Bit Rate Control		CBR/VBR					Alarm Output	1 channel Out: 300mA 12VDC
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Lite Series | DH-IPC-HFW2231T-ZAS-S2

Power

Power Supply	12V DC/PoE (IEEE802.3af)
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)		

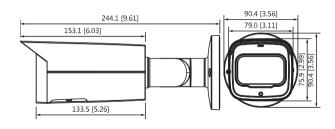
Structure

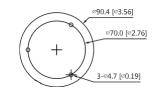
Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.9 kg (1.98 lb)
Gross Weight	1.15 kg (2.54 lb)

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

