

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 storage environments
- 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 Micro SD 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 instable voltage.



Technical Specification							Video Bit Rate	H.264: 32 Kbps-6144 Kbps
Camera							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
RAM		128 MB					WDR	120 dB 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					Noise Reduction	3D DNR
IR Distance		60 m (196.85 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
IR On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
IR LEDs Number			4				Smart IR	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)
		Rotation: 0°-	-360°				Mirror	Yes
Lens Type		Motorized vari-focal					Privacy Masking	4 areas
Mount Type		ф14					Audio	
Focal Length		2.7 mm–13.5 mm					Audio Compression	G.711a; G.711Mu; G.726; AAC
		F1.5					Network	
Max. Aperture		Pan: 109°–28°					Network	RJ-45 (10/100 Base-T)
Field of View		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 aperture						Bonjour
Close Focus Dista		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 44.1 m	Observe 17.6 m	Recognize 8.8 m	Identify 4.4 m		User/Host	20
DORI Distance	W T	(144.69 ft) 151.7 m	(57.74 ft) 60.6 m	(28.87 ft) 30.3 m	(14.44 ft) 15.1 m		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
		(497.70 ft)	(198.82 ft)	(99.41 ft)	(49.65 ft)			IE
Smart Event							Browser	Chrome Firefox
General IVS Anal	ytics	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		Yes						CE-LVD: EN60950-1
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Certifications	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
Stream Capability		2 streams					Port	
Stream capability							Audio Input	1 channel (RCA port)
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Audio Output	1 channel (RCA port)
							Alarm Input	1 channel In: 5mA 5VDC
Bit Rate Control		CBR/VBR					Alarm Output	1 channel Out: 300mA 12VDC

Lite Series | DH-IPC-HFW2231T-ZAS-S2

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 ≤ 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67;IK10(optional)		

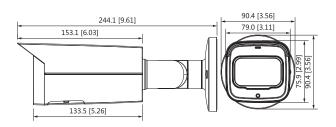
Structure

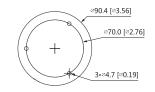
Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.9 kg (1.98 lb)
Gross Weight	1.15 kg (2.54 lb)

Ordering Information					
Туре	Part Number	Description			
2MP Camera	DH-IPC-HFW2231TP-ZAS-S2	2MP WDR IR Bullet Network Camera,PAL			
	DH-IPC-HFW2231TN-ZAS-S2	2MP WDR IR Bullet Network Camera,NTSC			
	PFA130-E	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			

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

