

DH-IPC-HFW2231T-ZS-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, voltage detection
- · 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 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, 1/3s, 30IRE),0.001Lux@F1.5				Noise Reduction	3D DNR
IR Distance		(Black&White), OLux@F1.5(Black&White,IR on) 60 m (196.85 ft)				Motion Detection	OFF/ON (4 areas, rectangular)
		Auto/Manual				Region of Interest(RoI)	Yes (4 areas)
IR On/Off Control						Smart IR	Yes
IR LEDs Number		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/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°				Mirror	Yes
Lens						Privacy Masking	4 areas
Lens Type		Motorized vari-focal				Network	
Mount Type		ф14				Network	RJ-45 (10/100 Base-T)
Focal Length Max. Aperture		2.7 mm—13.5 mm F1.5				Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; SNMP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS;
Field of View		Pan: 109°–28° Tilt: 57°–16° Diagonal: 131°–33°				Interoperability	PPPoE; 802.1x; Bonjour ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone;
Iris Type		Fixed apertur	re				Genetec
Close Focus Distance		0.8 m-0.8 m (2.62 ft-2.62 ft)				User/Host	20
	Lens	Detect	Observe	Recognize	Identify	Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
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)	Browser	IE, Chrome, Firefox
	Т	151.7 m	60.6 m	30.3 m	15.1 m	SDK / API	Yes
	'	(497.70 ft)	(198.82 ft)	(99.41 ft)	(49.65 ft)	Management Software	Smart PSS; DSS; DMSS
Smart Event						Mobile Phone	IOS; Android
General IVS Analytics		Tripwire; intrusion				Certification	
Video	Video						CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Video Compression		H.265; H.264; H.264B; MJPEG				Certifications	
Smart Codec		H.264: Yes H.265: Yes					UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps)				Power	
						Power Supply	12V DC/PoE (802.3af)
		704 × 480 (1 fps-30 fps)				Power Consumption	< 9.6W
Stream Capability		2 streams				Environment	
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				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)
Bit Rate Control		CBR/VBR				Protection	IP67;IK10(optional)

Structure

Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.86 kg (1.90 lb)
Gross Weight	1.10 kg (2.43 lb)

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

Accessories

Optional:



PFA130-E Junction Box



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



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

Dimensions (mm[inch])







