

DH-IPC-HDW2231T-AS-S2

2MP WDR IR Eyeball Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max. IR 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
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 GB Micro SD card, built-in Mic
- 12V DC/PoE power support
- IP67 protection



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						
Camera						
Image Sensor		1/2.8”2Megapixel progressive CMOS				
Effective Pixels		1920 (H) ×1080 (V)				
ROM		128 MB				
RAM		128 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				
Min. Illumination		0.002 Lux @F1.6				
IR Distance		30 m (98.4 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs Number		2				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Mount Type		M12				
Focal Length		2.8 mm 3.6 mm				
Max. Aperture		F1.6 F1.6				
Field of View		2.8 mm: Pan:106° Tilt: 56° Diagonal: 126° 3.6 mm: Pan:87° Tilt: 46° Diagonal: 104°				
Iris Type		Fixed aperture				
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)	
	3.6 mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)	
Smart event						
General IVS Analytics		Tripwire; intrusion				
Video						
Video Compression		H.265; H.264; H.264B; MJPEG				
Smart Codec		Yes				
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)				
Stream Capability		2 streams				

Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Bit Rate Control		CBR/VBR	
Video Bit Rate		H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps	
Day/Night		Auto(ICR)/Color/B/W	
BLC		Yes	
HLC		Yes	
WDR		120 dB	
White Balance		Auto/natural/street lamp/outdoor/manual/regional custom	
Gain Control		Auto/Manual	
Noise Reduction		3D DNR	
Motion Detection		OFF/ON (4 areas, rectangular)	
Region of Interest(Rol)		Yes (4 areas)	
Smart IR		Yes	
Image Rotation		0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)	
Mirror		Yes	
Privacy Masking		4 areas	
Audio			
Built-in MIC		Yes	
Audio Compression		G.711A; G.711Mu; G.726; AAC	
Network			
Network		RJ-45 (10/100 Base-T)	
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; Bonjour	
Interoperability		ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec	
User/Host		20	
Edge Storage		Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
Browser		IE Chrome Firefox	
Management Software		Smart PSS; DSS; DMSS	
Mobile Phone		IOS; Android	
Certification			
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	

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 6.5W

Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Ingress Protection	IP67

Structure

Casing	Metal + plastic
Dimensions	100.9 mm × Φ109.9 mm (4.0" × Φ4.3")
Net Weight	0.39 kg (0.9 lb)
Gross Weight	0.56 kg (1.2 lb)

Ordering Information

Type	Part Number	Description
2MP Camera	DH-IPC-HDW2231TP-AS-S2	2MP WDR IR Eyeball Network Camera, PAL
	DH-IPC-HDW2231TN-AS-S2	2MP WDR IR Eyeball Network Camera, NTSC
Accessories (optional)	PFA130-E	Junction Box
	PFB203W	Wall Mount
	PFA152-E	Pole Mount
	PFM321D	DC12V1A Power Adapter
	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



PFB203W
Wall Mount



PFA152-E
Pole Mount



PFM321D
DC12V1A
Power Adapter



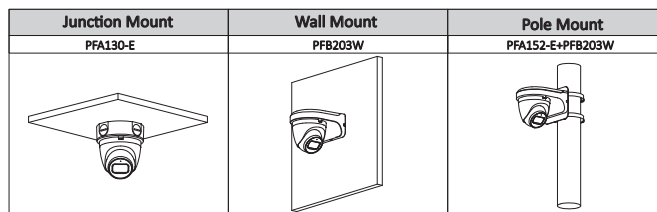
LR1002-1ET/1EC
Single-port Long
Reach Ethernet over
Coax Extender



PFM900-E
Integrated Mount
Tester



PFM114
TLC SD Card



Dimensions (mm[inch])

