

DH-IPC-HDW2431T-AS-S2

4MP WDR IR Eyeball Network Camera



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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, Max. supports 4MP (2688 × 1520) @ 20 fps
- H.265 coding, high compression ration, 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 tempering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- · Max. 256 GB SD card and built-in MIC
- 12V DC/POE power support
- IP67 protection













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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Camera	1080p (1920 × 80 × 720); D1 (704 CIF (352 × 288/352	
Effective Pixels 2688 (H) × 1520 (V) ROM 128 MB RAM 128 MB Scanning System Progressive Day/Night ICR switch Electronic Shutter Speed Auto/Manual 1/3 s-1/100000 s Min. Illumination 0.01 Lux @ F1.6 IR Distance 30 m (98.43 ft) (IR) IR On/Off Control Auto/Manual IR LEDS Number 2 (IR LED) Pan/Tilt/Rotation Range Vertical: 0°-78° Rotation: 0°-360° Lens Lens Type Fix focal Mount Type M12 Max. Aperture F1.6 Bit Rate Control CBR/VBR Video Bit Rate	manual/regional	
ROM 128 MB RAM 128 MB Scanning System Progressive Day/Night ICR switch Electronic Shutter Speed Auto/Manual 1/3 s-1/100000 s Min. Illumination 0.01 Lux @ F1.6 IR Distance 30 m (98.43 ft) (IR) White Balance Custom IR LEDS Number 2 (IR LED) Pan/Tilt/Rotation Range Vertical: 0"-78" Rotation: 0"-360" Lens		
RAM 128 MB Video Bit Rate H.264: 32 Kbps-6144 Kbps H.265: 12 Kbps-6144		
Scanning System Progressive Day/Night ICR switch Electronic Shutter Speed Auto/Manual 1/3 s-1/100000 s Min. Illumination 0.01 Lux @ F1.6 IR Distance 30 m (98.43 ft) (IR) White Balance Auto/manual Street lamp/outdoor/custom IR On/Off Control Auto/Manual Gain Control Auto/Manual IR LEDs Number 2 (IR LED) Noise Reduction 3D DNR Pan/Tilt/Rotation Range Horizonal: 0*-360* Vertical: 0*-78* Region of Interest(Rol) Yes (4 areas) Lens Type Fix focal Mount Type M12 Image Rotation O*/90*/180*/270* (Supports 90*/270* Focal Length 3.6 mm Max. Aperture F1.6 F1.6 Privacy Masking 4 areas		
Electronic Shutter Speed Auto/Manual 1/3 s-1/100000 s Min. Illlumination 0.01 Lux @ F1.6 WDR 120 dB IR Distance 30 m (98.43 ft) (IR) White Balance Auto/natural/street lamp/outdoor/custom IR On/Off Control Auto/Manual Gain Control Auto/Manual IR LEDs Number 2 (IR LED) Noise Reduction 3D DNR Pan/Tilt/Rotation Range Vertical: 0*-360* Vertical: 0*-360* Region of Interest(Rol) Yes (4 areas) Lens Lens Type Fix focal Manual Pix (500 Mirror Yes) Mount Type M12 Image Rotation O''90"/180"/270" (Supports 90"/270 Mirror Yes) Max. Aperture F1.6 F1.6 Privacy Masking 4 areas		
Min. Illumination O.01 Lux @ F1.6 White Balance White Balance Auto/natural/street lamp/outdoor/custom White Balance Auto/Manual Gain Control Auto/Manual Noise Reduction Auto/Manual Motion Detection Disable/Enable (4 areas, rectangle) Region of Interest(Rol) Yes (4 areas) Lens Lens Type Fix focal Mount Type M12 Focal Length Aux. Aperture F1.6 F1.6 F1.6 F1.6 Auxion WDR 120 dB White Balance White Balance Auto/natural/street lamp/outdoor/custom Auto/Manual Auto/Manual Motion Detection Disable/Enable (4 areas, rectangle) Region of Interest(Rol) Yes (4 areas) Fes Image Rotation O*90*/180*/270* (Supports 90*/270* (Supp		
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IR On/Off Control Auto/Manual Gain Control Auto/Manual R LEDs Number 2 (IR LED) Noise Reduction 3D DNR Horizonal: 0°-360° Vertical: 0°-78°		
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Pan/Tilt/Rotation Range Vertical: 0°-78° Rotation: 0°-360° Region of Interest(Rol) Yes (4 areas) Lens Lens Type Fix focal Mount Type M12 Image Rotation Mirror Yes Max. Aperture F1.6 F1.6 F1.6 Privacy Masking Audica		
Region of Interest(RoI) Lens Lens Type Fix focal Mount Type M12 Focal Length Audion Region of Interest(RoI) Yes (4 areas) Yes Image Rotation O*/90*/180*/270* (Supports 90*/270* resolution.) Mirror Yes Audion Audion Audion		
Lens Type Fix focal Mount Type M12 Image Rotation 0°/90°/180°/270° (Supports 90°/270° Focal Length 3.6 mm Mirror Yes Max. Aperture F1.6 Privacy Masking 4 areas		
Mount Type M12 Image Rotation 0°/90°/180°/270° (Supports 90°/270° Focal Length 2.8 mm 3.6 mm Mirror Yes Privacy Masking 4 areas		
Mount Type M12 Image Rotation resolution.) Focal Length 2.8 mm 3.6 mm Mirror Yes Max. Aperture F1.6 Privacy Masking 4 areas	0° with 1080p	
Max. Aperture F1.6 F1.6 Privacy Masking 4 areas	'	
Max. Aperture F1.6		
Audio		
2.8 mm: AUGIO Horizonal: 102.0°	Audio	
Vertical: 55.0° Built-in MIC Yes		
Field of View 3.6 mm: Audio Compression G.711A; G.711Mu; G.726; AAC Horizonal: 84.0°		
Vertical: 45.0° Network Diagonal: 100.0°	Network	
Iris Type Fixed Network RJ-45 (10/100 Base-T)		
Close Focus Distance 2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (3.61 ft) Protocol Protocol HTTP; TCP; ARP; RTSP; RTP; UDP; RT DHCP; DNS; DDNS; PPPoE; IPv4/v6; RTMP; Multicast; HTTPS; SFTP; 802	QoS; UPnP; NTP;	
Lens Detect Observe Recognize Identify Interoperability ONVIF (Profile S/Profile G); CGI; Mile	estone; Genetec	
DORI 2.8 mm 56 m 22.4 m 11.2 m 5.6 m User/Host 20 User/Host		
3.6 mm 80 m 32.0 m 16.0 m 8.0 m 262.47 ft) (104.99 ft) (52.49 ft) (26.25 ft) Edge Storage Dahua Cloud; FTP; Micro SD card (m	nax. 256 GB); NFS	
Smart event Browser Browser E Google Firefox		
General IVS Analytics Intrusion; tripwire Management Software Smart PSS; DSS; DMSS		
Video Mobile Phone IOS; Android		
Video Compression H.265; H.264B; MJPEG Certification		
Smart Codec		
60Hz Main stream (2560 × 1440@30 fps); sub stream (704 × 480@30 fps)		
Main stream (2688 \times 1520@20 fps); sub stream (704 \times 480@20 fps) Power Supply 12V DC/POE		

Basic power consumption: 2.1W (12V DC), 2.5W (POE) Max power consumption (H.265, Max resolution, Max Power Consumption stream, WDR, IR full intensity, IVS): 5.7W (12V DC),

Environment

Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Operating Humidity	≤95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Storage Humidity	≤95%
Protection	IP67

Structure

Casing	Metal + Plastic
Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")
Net Weight	0.39 kg (0.86 lb)
Gross Weight	0.52 kg (1.15 lb)

Ordering Information				
Туре	Part Number	Description		
4MP Camera	DH-IPC- HDW2431TP-AS-S2	4MP WDR IR Eyeball Network Camera,PAL		
Tivii camera	DH-IPC- HDW2431TN-AS-S2	4MP WDR IR Eyeball Network Camera, NTSC		
Accessories	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



DC12V1A Power adapter



PFB203W Wall mount



LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFA152-E Pole Mount



PFM900-E Integrated mount tester



PFM114 TLC SD card

顶装	壁装	柱装
PFA130-E	PFB203W	PFA152-E+PFB203W

Dimensions (mm[inch])





