

DH-IPC-HDBW2431F-AS-S2

4MP Lite IR Fixed-focal Dome Network Camera



Series Overview

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying to the standards of IP67 and IK10.

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Starlight

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 \times 1520) @20 fps,and supports 2560 \times 1440 (2560 \times 1440) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED. max. IR distance: 30 m
- Rol, 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, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; built-in Mic; supports max. 256 GB
 Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 protection













IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

Protection (IP67, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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				Bit Rate Control	CBR/VBR			
Camera							Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Image Sensor		1/3"4Megapixel progressive CMOS				Day/Night	Auto (ICR)/Color/B/W	
Max. Resolution	2688 (H) × 1520 (V)				BLC	Yes		
ROM		128 MB					HLC	Yes
RAM		128 MB					WDR	120 dB
Scanning System	1	Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Electronic Shutte	er Speed	Auto/Manual 1/3 s-1/100,000 s					Gain Control	Auto/Manual
S/N Ratio		> 56 dB					Noise Reduction	3D DNR
Minimum Illumi	nation	0.008 Lux @ F	1.6				Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Dist	ance	30 m (98.4 ft)					Region of Interest (RoI)	Yes (4 areas)
Illuminator On/0	Off Control	Auto/Manual					Smart Illumination	Yes
Illuminator Num	ber	8 (IR LED)						0°/90°/180°/270° (Support 90°/270° with
Pan/Tilt/Rotatio	n Bango	Pan: -30°-30°	•				Image Rotation	2688 × 1520 resolution and lower)
Pan/ Int/Rotatio	n Kange	Tilt: 0°–80° Rotation: 0°–360°					Mirror	Yes
Lens							Privacy Masking	4 areas
Lens Type		Fixed-focal					Audio	
Mount Type		M12					Built-in MIC	Yes
Focal Length		2.8 mm 3.6 mm					Audio Compression	G.711a; G.711Mu; G.726; AAC
Max. Aperture		F1.6 F1.6				Alarm	N 60 160 161160 1 1 1	
Field of View		2.8 mm:Horizontal 102° × Vertical 55° × Diagonal 121° 3.6 mm:Horizontal 84° × Vertical 45° × Diagonal 100					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception; local
Iris Type		Fixed						alarm
Close Focus Dist	ance	2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft)					Network	
	Lens	Detect	Observe	Recognize	Identify		Network	RJ-45 (10/100 Base-T)
DORI Distance	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6 m (8.5 ft)		SDK and API	Yes
	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)		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
Smart Event							Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
IVS		Tripwire; intrusion					User/Host	20
Video		11.265, 11.264	LL 2CAD. NAIDE	C (h	A		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD card (support max. 256 G); NAS
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by sub stream)					Browser	IE Chrome
Smart Codec		Smart H.265+/ Smart H.264+						Firefox
		Main stream: 2688 × 1520 (1 fps-20 fps)					Management Software	Smart PSS, DSS, DMSS
Video Frame Rate		2560 × 1440 (1 fps-25/30 fps) Sub stream:				Mobile Phone	IOS; Android	
		704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				Certification		
Stream Capabilit	ty	2 streams						CE-LVD: EN60950-1
Resolution		2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 ×480); CIF (352 × 288/352 × 240)				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	

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC

Power

Power Supply	12V DC/PoE
Power Consumption	<5.4W

Environment

Operating Temperature	-40°C to +60°C (-40 °F to +140°F)/less than ≤ 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Ingress Protection	IP67; IK10		

Structure

Casing	Metal
Dimensions	55 mm × Φ108.9 mm (2.2" × Φ4.3")
Net Weight	0.38 kg (0.8 lb)
Gross Weight	0.52 kg (1.1 lb)

Ordering Information					
Туре	Part Number	Description			
4MP	DH-IPC-HDBW2431FP-AS-S2	4MP Lite IR Fixed-focal Dome Network Camera,PAL			
Camera	DH-IPC-HDBW2431FN-AS-S2	4MP Lite IR Fixed-focal Dome Network Camera,NTSC			
	PFA139	Junction Box			
	PFB204W	Wall Mount			
	PFA152-E	Pole Mount			
	PFB220C	Mount Adapter			
Accessories	PFA106	Celling Mount			
(optional)	PFM321D	12V DC 1A Power Adapter			
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD Card			

Accessories

Optional:





PFB204W

Wall Mount



PFA152-E

Pole Mount

PFA139 Junction Box



PFB220C Ceiling Mount

PFA106 Mount Adapter

PFM321D 12V DC 1A Power Adapter







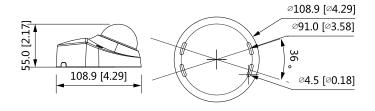
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender

PFM900-E Integrated Mount Tester

PFM114 TLC SD Card

Junction Mount	Junction Mount Wall Mount		Celling Mount
PFA139	PFB204W	PFB204W+PFA152-E	PFB220C+PFA106

Dimensions (mm[inch])







DH-IPC-HDW2531T-AS-S2

5MP Lite IR Fixed-focal Eyeball Network Camera



- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 × 1944) @20 fps, and supports 2688 ×1520 (2688 × 1520) @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 NR, 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, built-in MIC
- 12V DC/PoE power supply
- IP67 protection













Series Overview

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 (Supported by some select models).

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Starlight

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

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% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification							2592×1944(2592×1944); 2688×1520(2688×1520); 3M(2048×1536); 2304×1296(2304×1296);
Camera						Resolution	1080p(1920×1080); 1.3M (1280 × 960); 720p(1280×720); D1(704× 576/704×480);
Image Sensor		1/2.7" 5Meg	gapixel progres	ssive CMOS			VGA(640×480); CIF(352×288/352×240)
Max. Resolutio	n	2592 (H) × 1	944 (V)			Bit Rate Control	CBR/VBR
ROM		128 MB				Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
RAM		256 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning Syster	m	Progressive				BLC	Yes
Electronic Shut	ter Speed	Auto/Manua	al 1/3 s-1/1000	000 s		HLC	Yes
Min. Illumination	on	0.008 Lux @	F1.6			WDR	120 dB
S/N Ratio		> 56 dB				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination Dis	stance	30 m (98.43	ft)			Gain Control	Auto/Manual
Illuminator On/	/Off Control	Auto/Manua	al			Noise Reduction	3D NR
Illuminator Nur	mber	2 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotati	ion Range	Pan: 0°-360 Tilt: 0°-78°	•			Region of Interest(RoI)	Yes (4 areas)
, ,		Rotation: 0°-	-360°			Smart Illumination	Yes
Lens						Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2592 × 1944 resolution and lower.)
Lens Type		Fixed				Mirror	Yes
Mount Type		M12				Privacy Masking	4 areas
Focal Length		2.8 mm 3.6 mm				Audio	
Max. Aperture		F1.6 F1.6				Built-in MIC	Yes
		2.8 mm:				Audio Compression	G.711A; G.711Mu; G.726
Field of View		Horizontal 103.0° × Vertical 71.0° × Diagonal 132.0° 3.6 mm: Horizontal 84.0° × Vertical 58.0° × Diagonal 110.0°				Alarm	
Iris Type		Fixed				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video
Close Focus Dis	tance	2.8 mm: 0.9 m (2.95 ft)					tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception
close i ocus bis	rance	3.6 mm: 1.6				Network	
	Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)
DORI Distance	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	SDK and API	Yes
	3.6 mm	80 m (262.47 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)	8.0 m (26.25 ft)		Video encryption; firmware encryption; configuration
Smart event		(202.47 11) (204.5511) (32.4511) (20.2511)			(==:==::)	Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of
IVS		Tripwire; intrusion				, ,	X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video				IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;			
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)				Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Smart Codec		Smart H.265	+/ Smart H.26	4+		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P;
Video Frame Rate		Main stream 2592 × 1944	n: · (1 fps-20 fps)			User/Host	Milestone; Genetec
		2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
						0-	IE
Stream Capability		2 streams				Browser	Chrome Firefox

Lite Series | DH-IPC-HDW2531T-AS-S2

Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

Certification

Certifications	CE-LVD: EN62368-1 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	< 7.2W

Environment

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

Structure

Casing	Metal + Plastic
Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")
Net Weight	0.39 kg (0.9 lb)
Gross Weight	0.56 kg (1.2 lb)

Ordering Information			
Туре	Part Number	Description	
5MP Camera	DH-IPC- HDW2531TP-AS-S2	5MP Lite IR Fixed-focal Eyeball Network Camera,PAL	
Sivii Camera	DH-IPC- HDW2531TN-AS-S2	5MP Lite IR Fixed-focal Eyeball Network Camera, NTSC	
	PFA130-E	Junction Box	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
Accessories (optional)	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



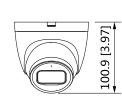
PFM900-E Integrated Mount Tester

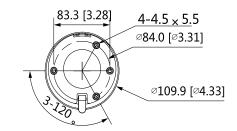


PFM114 TLC SD Card

Junction Mount	Wall Mount	Pole Mount
PFA130-E	PFB203W	PFA152-E+PFB203W

Dimensions (mm[inch])







DH-IPC-HFW1431T-ZS-S4

4MP Entry IR Vari-focal Bullet Netwok Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 \times 1440) @25/30 fps, and supports max. 4MP (2688 \times 1520) @20 fps
- H.265 codec, high compression rate, ultra-low bit rate Built-in IR LED, max. IR distance: 50 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Image Rotation, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- 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 SD card
- 12V DC/PoE power support
- · IP67 protection











System Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry Series camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

Functions

Smart (H.265+ & H.264+)

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Motion Detection

When moving objects appear in the monitoring image, Dahua Motion Detection (General) technology triggers alarm or records.

Wide Dynamic Range (WDR)

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Smart IR

Dahua Smart IR technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts IR LEDs intensity automatically to display the details of the moving target.

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 Sp	ecifica ti	on				Bit Rate Control	CBR; VBR
	Camera			H.264: 32 Kbps-6144 Kbps			
Image Sensor		1/3 "4Megapixel progressive CMOS		Video Bit Rate	H.265: 12 Kbps-6144 Kbps		
Effective Pixels		2688 (H) ×152		c civios		Day/Night	Auto(ICR)/Color/B/W
			20 (v)			BLC	Yes
ROM		128 MB				HLC	Yes
RAM		128 MB				WDR	120 dB
Scanning System		Progressive	. /2 /			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Electronic Shutte			1/3 s-1/1000	00 s		Gain Control	Manual/Auto
Min. Illumination	n	0.03 Lux @ F1				Noise Reduction	3D DNR
IR Distance		50 m (164.0 f	,			Motion Detection	OFF/ON (4 areas, rectangular)
IR On/Off Contro	ol	Auto/Manual				Region of Interest(RoI)	Yes (4 areas)
IR LEDs Number		2				Smart IR	Yes
Pan/Tilt/Rotatio	on Range	Horizontal: 0° Vertical: 0°–9 Rotation: 0°–3	0°			Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution.)
Lens						Mirror	Yes
Lens Type		Motorized vari-focal			Privacy Masking	4 areas	
Mount Type		ф14				Network	
Focal Length		2.8 mm-12 mm		Network	RJ-45 (10/100 Base-T)		
Max. Aperture		F1.7			HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP;		
Field of View			Protocol	DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP			
		Diagonal: 116°–36°		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone;		
Iris Type		Fixed aperture	e			User/Host	20
Close Focus Dist	ance Lens	0.8 m (2.6 ft) Detect	Observe	Recognize	Identify	Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD card (support max. 256 GB); NAS
DORI Distance	W	66.0 m (183.7 ft)	26.4 m (73.5 ft)	13.2 m (36.7 ft)	6.6 m (18.4 ft)	Browser	IE Chrome Firefox
	Т	200.0 m (656.2 ft)	80.0 m (262.5 ft)	40.0m (131.2 ft)	20.0 m (65.6 ft)	Management Software	Smart PSS; DSS; DMSS
Video						Mobile Phone	IOS; Android
Video Compress	sion	H.265; H.264;	; H.264B; MJPE	EG .		Certification	
Smart Codec		Yes		Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive		
Main Stream: 2688 × 1520 (1 fps–20 fps)			2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B				
Sub Stre		Sub Stream:	560 × 1440 (1 fps–25/30 fps) ub Stream: 04 × 576 (1 fps–20/25 fps)			Power	
704 × 376 (1 lps=20/23 lps) 704 × 480 (1 fps=20/30 fps)		Power Supply	12V DC/POE (802.3af)				
Character Co. 1 and				Power Consumption	< 7.4W		
Stream Capabilit	ability 2 streams		Environment				
				2560 × 1440 (2		Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than≤95%
Resolution		2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×			Strorage Conditions	-40°C to +60°C (-40°F to +140°F)	
480); VGA (640 × 480); CIF (352 × 288/352 ×240		×240)	Ingress Protection	IP67			

Entry Series | DH-IPC-HFW1431T-ZS-S4

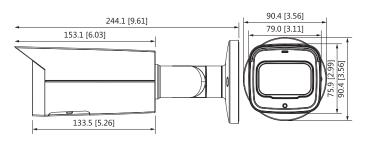
Structure

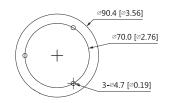
Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.6" × Φ3.6")
Net Weight	0.85 kg (1.9 lb)
Gross Weight	1.10 kg (2.4 lb)

Ordering Information				
Туре	Part Number	Description		
4MP	DH-IPC-HFW1431TP-ZS-S4	4MP Entry IR Vari-focal Bullet Netwok Camera,PAL		
Camera D	DH-IPC-HFW1431TN-ZS-S4	4MP Entry IR Vari-focal Bullet Netwok 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 PFA130-E

Dimensions (mm[inch])





Accessories

Optional:







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





DHI-NVR608-32-4KS2

32 Channel 2U 8HDDs Ultra series Network Video Recorder



Series Overview

Dahua's next generation network video recorder offers unparalleled recording technology for IP video surveillance applications. For applications where details are critical for identification, this enterprise-level NVR provides a powerful Intel processor with up to 4K resolution. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, centre storage, edge storage, and back up storage.

This NVR is ideal for a wide range of applications such as public safety, transportation stations, government institutions, hotel resorts, shopping malls, city centers, and financial institutions, where demand expansion flexibility, high reliability and centralized storage management.

The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF.

Functions

Perimeter Protection by Camera

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

SMD Plus by Camera

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Video Metadata by Camera

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

- · New 4.0 user interface
- 16-channel decoding@1080p (30 fps); self-adaptive decoding capability
- · Access, storage or forwarding at 384 Mbps
- Simultaneous video output for VGA and HDMI1; 4K heterogeneous output for the 2 HDMI ports
- Multiple data mode such as Raid0, Raid1, Raid5, Raid6, and Raid10
- Remote configuration and management of IPCs, such as setting pa rameters, acquiring information and upgrading IPCs of the same model in batches
- Al-by-camera functions such as perimeter protection, face detection and recognition, SMD Plus, video metadata, ANPR and 3D behavior analysis
- N+M cluster. When the host fails, the standbydevice will continue to record; once the host recovers, video recorded on the standby device will be transmitted back



ANPR by Camera

With deep learning algorithm, Dahua ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support block/allowlist mode, searching target vehicles from recorded video.

Stereo Analysis by Camara

With deep learning algorithm and scene 3-dimensional information, Dahua Stereo Analysis technology can recognize people's behaviors, such as fall detection, violence detection, strand detection, and space exception, and then generates alarm signals and triggers linkage.

N+M Hot Standby

The highly reliable redundancy N+M Hot Standby design provides a secure, failover technique ensuring immediate backup. In the event of a system failure, the sub instantly takes over the main ensuring no data is lost.

RAID

Support RAID 0,RAID 1,RAID 5,RAID 6,RAID 10 (optional). It can Improve your storage speed, while ensuring data security.

Technical Specific	ation	Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, O Canon and more
System		Compression	
Main Processor	Industrial embedded micro-processor	Video	Smart H.265+/H.265/Smart H.264+/H.264/MPEG
Operating System	Embedded Linux	Audio	MJPEG MP2/G726/G729/G722/G723/G711A/G711U/PCN
Operation Interface	Web/local GUI	Network	WP2/G720/G729/G722/G723/G711A/G7110/PC
Perimeter Protect	ion	Network	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTS
Performance	24 channels	Network Protocol	SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, F Alarm Server, IP Search (Support Dahua IP camer
Al Search	Search pictures by channel, time, event type		NVS, etc.), P2P, iSCSI
Face Detection By	Camera	Mobile Phone Access	iOS, Android
Performance	24 channels	Interoperability	ONVIF (profile T/S/G), CGI, SDK
Face Attributes	6 attributes: Gender, age, glasses, expression, mouth mask, and beard	Browser	Chrome, IE9 or later, Firefox
Al Search	Search pictures by channel, time and face attributes	Record Playback	
SMD Plus By Came	era	Multi-channel Playback	1/4/9/16
Performance	32 channels	Record Mode	Manual, Schedule (General, MD (Motion Detection
Al Search	Search by target classification (Human, Vehicle)		Alarm, MD & Alarm, Intelligent, POS)
Video Metadata B	y Camera	Storage Method	Local HDD and network
Performance	12 channels	Backup	Hard drive, USB device, eSATA device
Human Body	Top, top color, bottom, bottom color, hat, bag, gender, age, umbrella	Playback Function	Play, pause, stop, fast forward, fast backward, r play by frame Full screen, backup (cut/file), partially enlarge, on/off
Vehicle	Plate No., type, color, vehicle type, logo, plate color, ornament, calling, seatbelt, region	Storage	S.I.y S.I.
Non-motor Vehicle	Type, color, number of passengers, helmet	Disk Group	Support
Al Search	Support search target video by metadata	Raid Support	RAID 0/1/5/6/10
ANPR By Camera		Alarm	
Performance	8 channels		Motion detection, privacy masking, video loss, lo
Stereo Analysis by	Camera	General Alarm	alarm, PIR alarm, IPC alarm
Performance	32 channels	Anomaly Alarm	Camera offline, storage error, full storage, IP conf MAC conflict, login lock, network security anoma
Al Search	Search by target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection)	Intelligent Alarm	Perimeter protection, face detection, face recogn SMD, video metadata (human, motor-vehicle, non-motor vehicle), ANP people counting, stereo analysis, crowd distributi
Video			heatmap, video quality diagnosis
Access Channel	32	Alarm Linkage	Record, snapshot, IPC external alarm output, buz preset, email
Network Bandwidth	384 Mbps for access, 384 Mbps for storage and 384 Mbps for forwarding	External Port	
Resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/ 1080p/960p/720p/D1/CIF/QCIF	Audio Input	1 channel, RCA connector
Decoding Capability	16-ch@1080p (30 fps)	Audio Output	1 channel, RCA connector
Video Output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1/HDMI2: 3840 × 2160@30 fps, 3840 × 2160@25fps, 1920 × 1080, 1280 × 1024, 1280 × 720 1 channel VGA output, 2 channels HDMI output,	HDD	8 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature.
	VGA and HDMI 1 homologous output, double HDMI heterogeneous output. Support 4K display for both	Alarm Input	16 channels
	HDMI1 and HDMI2	Alarm Output	8 channels
Multi-screen Display	1st Screen: 1/4/8/9/16/25/36	eSATA	1 eSATA
,	2nd Screen: 1/4/8/9/16		

Ultra series | DHI-NVR608-32-4KS2

RS-232	1 channel, used to debug and pass through serial data
RS-485	1 channel, used to control PTZ, and it supports multiple protocols
USB	2 front USB 2.0 ports, 2 rear USB 3.0 ports

General Parameter

Power Supply	Single, AC100V–240V, 50–60 Hz
Power Consumption	< 20 W (Without HDD)
Net Weight	9 kg (19.8 lb) (Without HDD)
Gross Weight	10.5 kg (23.1 lb) (Without HDD)
Product Dimensions	440 mm × 452.6 mm × 94.9 mm (W × L × H) 17.32 inch × 17.82 inch × 3.73 inch (W × L × H)
Package Dimensions	571 mm × 571 mm × 225 mm (W × L × H) 22.48 inch × 22.48 inch × 8.86 inch (W × L × H)
Operating Conditions	-10°C to +55°C (+14°F to +131°F), +35°C (+95°F) when raid enabled
Storage Conditions	0°C to +40°C (+32°F to +104°F)
Operating Humidity	10%–93% (RH)
Storage Humidity	30%–85% (RH)
Operating Altitude	3000 m (9843 ft)
Certifications	CE: EN55022, EN55024, EN50130-4, EN60950-1 FCC: Part 15 Subpart B, ANSI C63.4-2014 UL: UL 60950-1 and CAN/CSA C22.2 No.60950-1

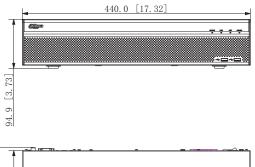
Ordering Information			
Туре	Model	Description	
32 Channel NVR	DHI-NVR608-32-4KS2	32 Channel Ultra Series 4K H.265 Network Video Recorder	
Accessories	ESS1504C	4 HDDs eSATA Storage (Please confirm with Technical Support for HDD capacity & compatibility)	

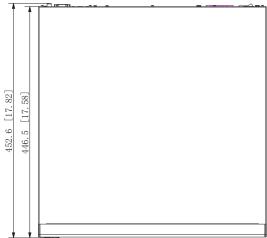
Accessories



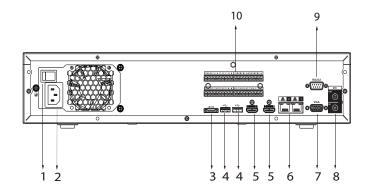
ESS1504C 4 HDDs eSATA Storage (Please confirm with Technical Support for HDD capacity & compatibility)

Dimensions (mm[inch])





Panels



- Power Switch
- 3 eSATA Port
- 5 HDMI Ports7 VGA Port
- 9 RS-232 Port

- 2 Power Input
- 4 USB Ports
- 6 Network Ports
- AUDIO IN/OUT, RCA Connector
- 10 Alarm In/Out



DH-PFS3006-4ET-60

6-Port 10/100Mbps Unmanaged Desktop Switch with 4 PoE Ports



System Overview

6-Port 10/100Mbps Unmanaged Desktop Switch with 4 PoE Ports is a type of layer two commercial switch. It provides 4 10/100 Mbps Ethernet ports and 2 10/100 Mbps uplink ports. The product is equipped with two types of transmission modes (Extend Mode On/Extend Mode Off). It also supports PoE watchdog to avoid manually maintenance and device restart, which can realize the intelligent management and reduce the cost.

Functions

Intelligent PoE

Adopt PoE power consumption management strategy, and supply power to important ports first. When total power consumption exceeds the set threshold value of the system, power down the ports from large port number to small port number. Adopt smart detection to prevent outage.

Supply power with ultra-wide power range, and adapt to IPC power consumption fluctuations in severe environment.

Hi-PoE 60W (Orange Port)

Besides IEEE802.3af and IEEE802.3at, orange port also supports maximum 60W output.

Long Distance PoE

Breaking the IEEE 100 m transmission limit, the device supports 250 m long distance PoE transmission with a more flexible networking.

All Metal Design

With all metal design, the device has good heat dissipation, and can work in severe environments.

POE Watchdog

Adopt the PoE watchdog function to avoid manually maintenance and device restart, which can realize the intelligent management and reduce the cost.

- * The parameters and datasheets below can only be applied to V2.0 (version 2.0)
- · Layer two commercial switch
- Supports IEEE802.3, IEEE802.3u, IEEE802.3ab and IEEE802.3x standards
- · MDI/MDIX self-adaptation
- RJ-45 port supports 10/100 Mbps self-adaptation, and confirms to 802.3at, and 802.3af power supply standards
- · Port 1 supports Hi-PoE 60W power supply
- 250 m PoE power supply
- · Wall mounting and mechanical anti-theft
- 53V DC power supply
- · Supports PoE watchdog











Scene

Suitable for supermarkets, hotels, shops, corridors and other small monitoring places.

Technical Specification

Hardware

Ethernet Port	4
Optical Port	0
Ethernet Port Rate	100 Mbps
Number of Business Card Slots	Port 1–4: 4 × RJ-45 10/100 M (PoE) Port 5–6: 2 × RJ-45 10/100 M (uplink)
Power Supply	53V DC
Operating Temperature	-10°C to +55°C (+14°F to +131°F)
Operating Humidity	5%-95%
Storage Temperature	-20°C to +70°C (-4°F to +158°F)
Storage Humidity	5%-95%
Power Consumption	Idling: 1.5W Full load: 60W

Performance

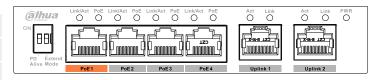
Switching Capacity	1.80 Gbps
Packet Forwarding Rate	0.89 Mpps
Packet Buffer Size	1 Mbit

Desktop PoE Switch | DH-PFS3006-4ET-60

MAC Table Size	2K
Communication Standard	IEEE802.3, IEEE802.3u, IEEE802.3x
PoE	
PoE Standard	IEEE802.3af/IEEE802.3at/Hi-PoE
PoE Power	60W
PoE Power Consumption Management	Yes
PoE Pin Assignment	PoE/Hi-PoE: 1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)
Far Distance Mode	250 m @10 Mbps
General	

ESD	Air discharge: 8kV Contact discharge: 6kV
Thunderproof	Common mode: 2kV Differential mode: 1kV
Net Weight	0.3 kg (0.66 lb)
Gross Weight	0.9 kg (1.98 lb)
Product Dimensions	130 mm × 85 mm × 26 mm (5.12" × 3.35" × 1.02")
Packaging Dimensions	267 mm × 239 mm × 77 mm (10.51" × 9.41" × 3.03")

Panels



Application

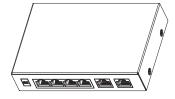


Dimensions (mm[inch])











DH-PFS3010-8ET-96

10-Port Unmanaged Desktop Switch with 8 Port PoE



- * The parameters and datasheets below can only be applied to V2.0 (version 2.0)
- · Intelligent PoE
- BT 90W
- · 8-pin assignment PoE power supply
- Long distance PoE
- PoE watchdog
- Wide working temperature













System Overview

DH-PFS3010-8ET-96 is an unmanaged Desktop Switch with 8 \times 10/100Mbps PoE Ports. It provides 8 \times 10/100 Mbps Ethernet ports and 2 \times 10/100/1000 Mbps uplink ports. The product is equipped with two types of transmission modes (Extend Mode On/Extend Mode Off). The red port supports the IEEE802.3bt and the Hi-PoE standards. The maximum power consumption is 90W. It also supports PoE watchdog to avoid manually maintenance and device restart, which can realize the intelligent management and reduce the cost.

Functions

Intelligent PoE

Adopt PoE power consumption management strategy, and supply power to important ports first. When total power consumption exceeds the set threshold value of the system, power down the ports from large port number to small port number. Adopt smart detection to prevent outage. Supply power with ultra-wide power range, and adapt to IPC power consumption fluctuations in severe environment.

BT 90W

The red port supports the IEEE802.3bt and the Hi-PoE standards. The maximum power consumption is 90 W.

PoE Watchdog

Adopt the PoE watchdog function to avoid manually maintenance and device restart, which can realize the intelligent management and reduce the cost.

Long Distance PoE

Breaking the IEEE 100 m transmission limit, the device supports 250 m long distance PoE transmission with a more flexible networking.

8-pin Assignment PoE Power Supply

The Eight-PIN Ethernet port supports power supply, to enhance frontend and rear-end compatibility.

Reduce cable loss and promote loading capacity.

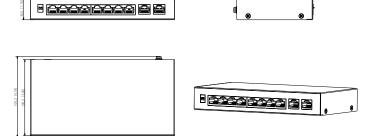
Scene

The device is applicable for use in different scenarios, including home, office, server farm, and small mall.

Specification		
Hardware		
Data Transmission Port	Port 1–8: 8 × RJ-45 10/100 Mbps (PoE) Port 9-10: 2 × RJ-45 10/100/1000 Mbps (Uplink)	
Power Supply	48 V- 57 V DC	
Operaing Temperature	-10 °C to +55 °C (+14°F to +131°F)	
Operating Humidity	5% – 95% (RH)	
Storage Temperature	−20 °C to +70 °C (−4°F to +158°F)	
Storage Humidity	5% – 95% (RH)	
Power Consumption	Idling: 3 W Full load: 96 W	
Performance		
Capacity	5.60 Gbps	
Packet Forwarding Rate	4.17 Mpps	
Packet Buffer Memory	4 Mbit	
MAC Table Size	8K	
Communication Standard	IEEE802.3/IEEE802.3u/IEEE 802.3ab/IEEE802.3x	
PoE		
PoE Standard	IEEE802.3af; IEEE802.3at; Hi-PoE; IEEE802.3bt	
PoE Power	96 W	
Power Consumption Management	Yes	
PoE Pin Assignment	1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)	
Long Distance PoE	250 m long distance PoE transmission	
PoE Watchdog	Yes	
General		
Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV	
Thunder-proof	Common mode: 4 kV Differential mode: 2 kV	
Net Weight	0.50 kg (1.10 lb)	
Gross Weight	1.32 kg (2.91 lb)	
Product Dimensions	190 mm × 100 mm × 30 mm (7.48" × 3.94" × 1.18")	

Transmiss	ion Performance:	
	supply voltage 53V. Max. DC resistance < 10Ω/100m	
Cable(m)	Load Capacity(W)	Bandwidth(Mbps)
IEEE802.3b	t 90W	
100	71.3	100
150	62	10
200	51	10
250	40	10
Hi-PoE 60W	1	
100	53	100
150	50	10
200	47	10
250	37	10
IEEE802.3	at 30W	
100	25.5	100
150	25.5	10
200	25.5	10
250	25.5	10
	m this table was collected by Dahua t nsistency between field application a	

Dimensions (mm[inch])



Panels

