

DH-KIT/NVR2104HC-W/2-HFW1339DTK1P-SW-PV-0360B/2-HDW1339DAP-SW-PV-0280B

3MP Smart Dual Light Wi-Fi Security System with 4CH Wi-Fi NVR and 2×Indoor & 2×Outdoor 3MP IP Cameras



Series Overview

Driven by industry-leading technology, Dahua Smart Dual Light Wi-Fi Security System is highly precise and easy to install, producing high-quality images. Wi-Fi NVR can automatically detect and connect to Wi-Fi cameras to instantly generate live videos. Equipped with embedded Wi-Fi module that supports IEEE 802.11b/g/n/a/ac/ax, its signals are highly stable, covering an extensive area, enabling the system to deliver reliable wireless connectivity. They have strong wireless connection capabilities and do not require network cables, eliminating the need for a professional construction team. The system is ideal for small and medium-sized scenes such as retail stores, homes, and other small and medium-sized enterprises.

Functions

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

Sound and Light Alarm

Dahua camera with sound and light alarms can provide quick warning to effectively prevent potential illegal intrusion.

The camera is built in multiple voices for selection, and supports customized voice importing.

- · Built-in IR LED and warm light, and the max. IR illumination distance is 30 m, the max. warm light distance is 30m.
- · Built-in Mic; built-in speaker; support two-way talk.
- · Sound and light alarm provide instant alarms to deter intruders.
- · IP67 protection.
- · Automatic pairing with wireless cameras.
- · Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- · Max. decoding capability: 10×1080 p@30 fps or 4×5 MP@30 fps.
- · Max. 80/80/80 Mbps incoming/recording/outgoing bandwidth.
- · Supports IP cameras with a resolution up to 16 MP.
- · AI by Recorder supports 4-channel SMD Plus.
- · Supports one-click arming and disarming.













SMD Plus

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.

Two-way Talk

Convenient for remote communication. You can talk through the built-in speaker and microphone and enjoy real-time video through the DMSS app anytime.

6th Generation Wi-Fi

With its embedded Wi-Fi 6 module, the Wi-Fi NVR is not only highly stable, but also offers fast transmission rates, low-latency and extensive coverage, enabling efficient and reliable monitoring.

Protection (IP67)

With IP67 weather-resisitance capability, it performs well against rain, dust and wind, ensuring stable surveillance 24/7.

Technical Specificati	on	Wi-Fi	
System (DHI-NVR210	04HC-W)	Wi-Fi Standard	802.11b/g/n/a/ac/ax
Main Processor	Industrial-grade processor	Frequency Range	2400-2483.5MHz, 5150-5350MHz, 5470-5725MHz, 5725-5850MHz
Operating System	Embedded Linux		CE EIRP:
Operating Interface	Web, Local GUI	Transmitter Power (EIRP)	≤20dBm@2400-2483.5MHz; ≤23dBm@5150-5250MHz; ≤20dBm@5250-5350MHz; ≤27dBm@5470-5725MHz;
Al			
Al by Recorder	SMD Plus		≤14dBm@5725-5850MHz
Al by Camera	Perimeter protection; SMD	Recording Playback	
Perimeter Protection	1	Multi-channel Playback	Up to 4 channels
Perimeter Performance of		Record Mode	General, motion detection; intelligent; alarm
Al by Camera (Number of Channels)	All channels (8 targets/s)	Backup Method	USB device and network
,		Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback
SMD	4 channels: Secondary filtering for human and motor	Alarm	
SMD Plus by Recorder	vehicle, reducing false alarms caused by leaves, rain and lighting condition change	General Alarm	Motion detection; camera external alarm; PIR alarm
SMD by Camera	All channels (16 targets/s)	Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline
Audio and Video		Intelligent Alarm	Perimeter protection; SMD Plus
Access Channel	4 channels	Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour
Network Bandwidth	Al disabled: 80 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing	Port	
	Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	Disk Interface	1 SATA port. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.
Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF	USB	2 (2 rear USB 2.0 ports)
	Al disabled: 1-channel 16 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 6 MP@30 fps; 4-channel 5 MP@30 fps Al enabled: 1-channel 12 MP@30 fps; 2-channel 6 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 4-channel 3 MP@30 fps	HDMI	1
Decoding Capability		VGA	1
		Network Port	1 (10/100 Mbps Ethernet port, RJ-45)
Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Antenna	2
		General	
Multi-screen Display	1/4	Power Supply	12 VDC, 1.5 A
Third-party Camera Access	ONVIF	Power Consumption	<6 W (without HDD)
Compression Standa	rd	Net Weight	0.57 kg (1.26 lb)
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Gross Weight	0.98 kg (2.16 lb)
Audio Compression	G.711a; G.711u; PCM; G726	Product Dimensions	197.0 mm × 234.0 mm × 41.5 mm (7.76" × 9.21" × 1.63") (W × D × H)
Network		Packaging Dimensions	332.0 mm × 240.0 mm × 64.0 mm (13.07" × 9.45" × 2.52 (W × D × H)
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; IP Filter; DDNS; IP Search (Supports IP camera,	Operating Temperature	-10 °C to +45 °C (+14 °F to +113 °F)
Mahila Dhana A	DVR, NVS, etc.); P2P; Auto Registration	Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Mobile Phone Access	iOS; Android	Operating Humidity	10%–93% (RH), non-condensing
Interoperability Browser	ONVIF 24.12(Profile T; Profile S; Profile G); CGI; SDK Chrome; IE; Safari; Edge; Firefox	Certifications	CE-LVD: IEC 62368-1:2014 CE-EMC: EN IEC 61000-3-2:2019, EN 61000-3- 3:2013+A1:2019, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55024:2010+A1:2015, EN

Technical Specification	วท			
Camera (DH-IPC-HDW1339DA-SW-PV)				
Image Sensor	1/2.8" CMOS			
Max. Resolution	2304 (H) × 1296 (V)			
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
Illumination Distance	Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)			
Illuminator Number	1 (IR LED); 1 (Warm light)			
Angle Adjustment	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens Type	Fixed-focal			
Focal Length	2.8 mm; 3.6 mm			
Max. Aperture	F1.6			
Field of View	2.8 mm: H: 103°; V: 55°; D: 123° 3.6 mm: H: 85°; V: 46°; D: 100°			
Intelligence				
Human Detection	Yes			
Vehicle Detection	Yes			
Audio and Video				
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream)			
Video Frame Rate	Main stream: $2304 \times 1296@(1-25/30 \text{ fps})$ sub stream: $640 \times 360@(1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.			
Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 32 kbps-6144 kbps			
Day/Night	Auto(ICR)/Color/B/W			
WDR	DWDR			
Image Rotation	0°/180°			
Built-in MIC	Yes, built-in Mic			
Built-in Speaker	Yes, built-in speaker			
Audio Compression	G.711a; G.711Mu; PCM			
Network				
Network Port	RJ-45 (10/100 Base-T)			
Wi-Fi	IEEE 802.11b/g/n/ax 2.4000−2.4835 GHz, 2.4 G, EIRP≤20 dBm			
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI			
Wi-Fi Pairing	Bluetooth pairing			
Storage	Micro SD card (support max. 256 GB)			
Management Software	Smart PSS Lite; DSS; DMSS			
Mobile Client	iOS;Android			

General		
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; CE-RED: Radio Equipment Directive 2014/53/EU	
Power Supply	12 VDC	
Power Consumption	Basic: 2.1 W (12 VDC); Max.: 7.1 W (12 VDC) (H.265 + warm light on+ sound and light alarm)	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95% (RH), non-condensing	
Protection	IP67	
Camera Button	Reset button	
Casing Material	Metal + plastic	
Product Dimensions	102.2 mm × Φ109.9 mm (4.02" × Φ4.33")	
Net Weight	0.32 kg (0.71 lb)	

Technical Specification					
Camera (DH-IPC-HFW1339DTK1-SW-PV)					
Image Sensor	1/2.8" CMOS				
Max. Resolution	2304 (H) × 1296 (V)				
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				
Illumination Distance	Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)				
Illuminator Number	1 (Multi-core (IR + warm) light)				
Angle Adjustment	Tilt: 0°–90° Rotation: 0°–360°				
Lens Type	Fixed-focal				
Focal Length	2.8 mm; 3.6 mm				
Max. Aperture	F1.6				
Field of View	2.8 mm: H: 103°; V: 55°; D: 123° 3.6 mm: H: 85°; V: 46°; D: 100°				
Intelligence					
Human Detection	Yes				
Vehicle Detection	Yes				
Audio and Video					
Video Compression	H.264B; H.264; H.264H; H.265				
Video Frame Rate	Main stream: $2304 \times 1296@(1-25/30 \text{ fps})$ sub stream: $640 \times 360@(1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.				
Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 32 kbps-6144 kbps				
Day/Night	Auto(ICR)/Color/B/W				
WDR	DWDR				
Motion Detection	OFF/ON (4 areas, rectangular)				
Image Rotation	0°/180°				
Built-in MIC	Yes, built-in Mic				
Built-in Speaker	Yes, built-in speaker				
Audio Compression	G.711a; G.711Mu; PCM				
Network					
Network Port	RJ-45 (10/100 Base-T)				
Wi-Fi	IEEE 802.11b/g/n/ax 2.4000–2.4835 GHz, 2.4 G, EIRP \leq 20 dBm				
Wi-Fi Pairing	Bluetooth pairing				
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI				
Storage	Micro SD card (support max. 256 GB)				
Management Software	Smart PSS Lite; DSS; DMSS				

Mobile Client	Android;iOS	
General		
Certifications	CE	
Power Supply	12 VDC	
Power Consumption	Basic: 2.2 W (12 VDC); Max.: 6.7 W (12 VDC)	
Operating Temperature	−30 °C to +50 °C (−22 °F to +122 °F)	
Operating Humidity	≤95% (RH), non-condensing	
Protection	IP67	
Camera Button	Reset button	
Casing Material	Metal + plastic	
Product Dimensions	172.4 mm × 83.3 mm × 75.0 mm (6.79" × 3.28" × 2.95") (L × W × H)	
Net Weight	0.3 kg (0.66 lb)	

Ordering Information				
Туре	Model	Description		
Smart Dual Light Series	DH-KIT/ NVR2104HC-W/2- HFW1339DTK1P- SW-PV-0360B/2- HDW1339DAP-SW- PV-0280B	3MP Smart Dual Light Wi-Fi Security System with 4CH Wi-Fi NVR and 2×Indoor & 2×Outdoor 3MP IP Cameras		