

# DH-KIT/NVR2104HC-W/2-HFW1539DTK1P-SW-PV-0360B/2-HDW1539DAP-SW-PV-0280B

5MP Smart Dual Light Wi-Fi Security System with 4CH Wi-Fi NVR and 2xIndoor & 2xOutdoor 5MP 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

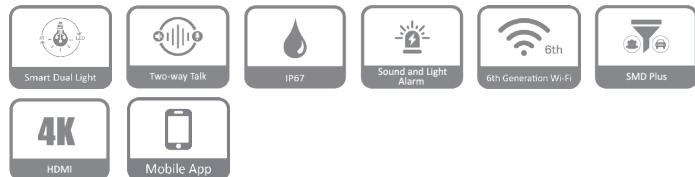
Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot 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 × 1080p@30 fps or 4 × 5MP@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-resistance capability, it performs well against rain, dust and wind, ensuring stable surveillance 24/7.

Technical Specification		Wi-Fi	
System (DHI-NVR2104HC-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	Transmitter Power (EIRP)	CE EIRP: ≤20dBm@2400-2483.5MHz; ≤23dBm@5150-5250MHz; ≤20dBm@5250-5350MHz; ≤27dBm@5470-5725MHz; ≤14dBm@5725-5850MHz
Operating Interface			Web, Local GUI
AI			
AI by Recorder	SMD Plus	Recording Playback	
AI by Camera	Perimeter protection; SMD	Multi-channel Playback	Up to 4 channels
Perimeter Protection			
Perimeter Performance of AI by Camera (Number of Channels)	All channels (8 targets/s)	Record Mode	General, motion detection; intelligent; alarm
SMD			
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Backup Method	USB device and network
SMD by Camera	All channels (16 targets/s)	Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback
Audio and Video			
Access Channel	4 channels	Alarm	
Network Bandwidth	AI disabled: 80 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	General Alarm	Motion detection; camera external alarm; PIR alarm
Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF	Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline
Decoding Capability	AI 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 AI 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	Intelligent Alarm	Perimeter protection; SMD Plus
Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour
Multi-screen Display	1/4	Port	
Third-party Camera Access	ONVIF	Disk Interface	1 SATA port. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.
Compression Standard			
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	USB	2 (2 rear USB 2.0 ports)
Audio Compression	G.711a; G.711u; PCM; G726	HDMI	1
Network			
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; IP Filter; DDNS; IP Search (Supports IP camera, DVR, NVS, etc.); P2P; Auto Registration	VGA	1
Mobile Phone Access	iOS; Android	Network Port	1 (10/100 Mbps Ethernet port, RJ-45)
Interoperability	ONVIF 24.12(Profile T; Profile S; Profile G); CGI; SDK	Antenna	2
Browser	Chrome; IE; Safari; Edge; Firefox	General	
		Power Supply	12 VDC, 1.5 A
		Power Consumption	<6 W (without HDD)
		Net Weight	0.57 kg (1.26 lb)
		Gross Weight	0.98 kg (2.16 lb)
		Product Dimensions	197.0 mm × 234.0 mm × 41.5 mm (7.76" × 9.21" × 1.63") (W × D × H)
		Packaging Dimensions	332.0 mm × 240.0 mm × 64.0 mm (13.07" × 9.45" × 2.52") (W × D × H)
		Operating Temperature	-10 °C to +45 °C (+14 °F to +113 °F)
		Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
		Operating Humidity	10%–93% (RH), non-condensing
		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 50130-4:2011+A1:2014

Technical Specification		General	
Image Sensor	1/2.8" CMOS	Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; CE-RED: Radio Equipment Directive 2014/53/EU
Max. Resolution	2880 (H) × 1620 (V)	Power Supply	12 VDC
Min. Illumination	0.007 lux@F1.6 (Color, 30 IRE) 0.0007 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	Power Consumption	Basic: 2.1 W (12 VDC); Max.: 7.1 W (12 VDC) (H.265 + warm light on+ sound and light alarm)
Illumination Distance	Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)	Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Illuminator Number	1 (IR LED); 1 (Warm light)	Operating Humidity	≤95% (RH), non-condensing
Angle Adjustment	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°	Protection	IP67
Lens Type	Fixed-focal	Camera Button	Reset button
Focal Length	2.8 mm; 3.6 mm	Casing Material	Metal + plastic
Max. Aperture	F1.6	Product Dimensions	102.2 mm × Φ109.9 mm (4.02" × Φ4.33")
Field of View	2.8 mm: H: 108°; V: 57°; D: 129° 3.6 mm: H: 89°; V: 48°; D: 104°	Net Weight	0.32 kg (0.71 lb)
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: 2880 × 1620@(1–25/30 fps) sub stream: 640 × 360@(1–25/30 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		
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	iOS;Android		

Technical Specification		Mobile Client	Android;iOS
Camera (DH-IPC-HFW1539DTK1-SW-PV)			General
Image Sensor	1/2.7" CMOS	Certifications	CE
Max. Resolution	2880 (H) × 1620 (V)	Power Supply	12 VDC
Min. Illumination	0.007 lux@F1.6 (Color, 30 IRE) 0.0007 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	Power Consumption	Basic: 2.4 W (12 VDC); Max.: 6.9 W (12 VDC)
Illumination Distance	Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)	Operating Temperature	−30 °C to +50 °C (−22 °F to +122 °F)
Illuminator Number	1 (Multi-core (IR + warm) light)	Operating Humidity	≤95% (RH), non-condensing
Angle Adjustment	Tilt: 0°–90° Rotation: 0°–360°	Protection	IP67
Lens Type	Fixed-focal	Camera Button	Reset button
Focal Length	2.8 mm; 3.6 mm	Casing Material	Metal + plastic
Max. Aperture	F1.6	Product Dimensions	172.4 mm × 83.3 mm × 75.0 mm (6.79" × 3.28" × 2.95") (L × W × H)
Field of View	2.8 mm: H: 104°; V: 56°; D: 124° 3.6 mm: H: 89°; V: 48°; D: 104°	Net Weight	0.3 kg (0.66 lb)
Intelligence		Ordering Information	
Human Detection	Yes	Type	Model
Vehicle Detection	Yes	Smart Dual Light Series	DH-KIT/ NVR2104HC-W/2- HFW1539DTK1P- SW-PV-0360B/2- HDW1539DAP-SW- PV-0280B
Audio and Video			5MP Smart Dual Light Wi-Fi Security System with 4CH Wi-Fi NVR and 2xIndoor & 2xOutdoor 5MP IP Cameras
Video Compression	H.264B; H.264; H.264H; H.265		
Video Frame Rate	Main stream: 2880 × 1620@(1–25/30 fps) sub stream: 640 × 360@(1–25/30 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≤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		