

DHI-ART-ARC3800H-03-CAM-FW2(868)

Dahua Wireless Alarm KIT



System Overview

The Alarm Kit contains all the products required for a basic wireless alarm system, providing you and your assets with strong protection.

Technical Specification

Port

Wireless Zone	Hub: 150 channels wireless peripherals (6 sirens, 64 PIR cameras (only 8 indoor PIR cameras), 64 keyfobs, 8 keypads and 4 repeaters)
Network Mode	Hub: Ethernet, Wi-Fi and Cellular network (Supports installation of dual SIM cards. Only one card can be enabled at a time)
Network Port	Hub: 1 × RJ-45, 10/100 Mbps Ethernet port.
Storage Battery	Hub: One built-in 4,750 mAh rechargeable lithium battery.

Video & Audio

Video Input	Hub: 8-ch IPC, which only supports the upload of alarm videos.
Audio Output	Hub: 1 channel
Volume Control	Hub: Yes
Voice Broadcast	Hub: Telephone and local speaker
Field of View	PIR-Camera: 88° (H); 68° (V)
Image Type	PIR-Camera: JPEG
Resolution	PIR-Camera: 1600 × 1200; 1280 × 960; 640 × 480; 320 × 240
Frame Rate	PIR-Camera: 2
Illumination Mode	PIR-Camera: Infrared Light
Illumination Range	PIR-Camera: 12 m (39.37 ft)
Day/Night Switch	PIR-Camera: Color/Black & White

- Supports alarm video verification through integration of the IPC with the hub.
- Images can be remotely and quickly transferred from the PIR-Cam to the device.
- Features voice call alarm.
- Supports wired and AP network configuration methods, which makes it easier to add the hub to apps and to switch to the hub's network.
- Supports multi-network redundancy for Ethernet, Wi-Fi and 4G networks to ensure the network remains stable and reliable.
- Supports two-way communication and frequency hopping to make communication with wireless peripherals stable and reliable. Features cloud update.
- You can also remotely update the device and wireless peripherals on the mobile app.
- Offers a dual backup system, and uses auto recovery when an update fails.

Function

Indicator Light	Hub: The indicator indicates the status of alarms, arming and disarming, the network connection and device failure. Keyfob: 1 dual-color status indicator (Green means normal and red means abnormal) Door Detector: 1 green alarm indicator PIR-Camera: 1 × green alarm indicator
Button	Hub: Includes a reset button, voltage button and AP switch button. Keyfob: 4 (Home, Away, Disarm, and SOS) Door Detector: 1 power switch PIR-Camera: 1 power switch
SMS	Hub: Yes (up to 5 phone numbers)
Phone Call	Hub: Yes (up to 5 phone numbers)
Video Linkage	Hub: Yes
Offline Cache	Hub: Stores up to 50 alarm messages.
Arm and Disarm	Hub: App, Keypad, remote control, card, scheduled arming and disarming.
Remote Update	All: Cloud update
Low Battery Detection	All: Yes
Tamper	Hub: Yes PIR-Camera: Yes
User Management	Hub: 33 app users (31 general users, 1 admin user and 1 installer) and 32 keypad users
Power Failure Protection for Configured Parameters	Hub: Yes
Logs	Hub: Up to 5,000 entries
Measuring Range (Temperature)	Door Detector: -15 °C to +65 °C (+5 °F to +149 °F) (indoor)
Transmission Protocol	Hub: SIA, SoftGuard

Signal Strength	PIR-Camera: RF signal test RF-HD signal test
Technical	
Sensor	Door Detector: Reed switch
Detection Mode	PIR-Camera: PIR
Sensitivity	PIR-Camera: 3 levels adjustable
Detection Range	PIR-Camera: 12 m (39.37 ft) (86°) with installation height of 2.2 m (7.22 ft)
Detection Speed	PIR-Camera: 0.3 m/s–3 m/s (0.98 ft/s–9.84 ft/s)
Movement Distance	Door Detector: < 40 mm (1.57")
Pet Immunity Level	PIR-Camera: ≤18 kg (39.68 lb)
White Light Resistance Level	PIR-Camera: 2000 lx
Two-way Digital Temperature Compensation	PIR-Camera: Yes
Operating Current	PIR-Camera: 2 A (Max), 65 uA (Standby) (Battery 3V)

Wireless	
Carrier Frequency	All: 868.0 MHz–868.6 MHz
Transmitter Power (EIRP)	All: Limit 25 mW
Communication Mechanism	All: Two-way
Communication Distance	Hub: Up to 2,000 m (6561.68 ft) in an open space. Keyfob: Up to 900 m (2952.76 ft) in an open space. Door Detector: Up to 1,200 m (3937.01 ft) in an open space. PIR-Camera: RF: Up to 1,600 m (5,249.34 ft) in an open space RF-HD: Up to 300 m (984.25 ft) in an open space
Encryption Mode	All: AES128
Frequency Hopping	All: Yes

General	
Language	Hub: Up to 7 languages are supported for SMS: English, Spanish (Latin America), French, Italian, Arabic, Turkish, and Danish. It is set as English by default. The alarm voice message feature and local speaker support English and Italian.
Power Supply	Hub: 100-240 VAC, 50/60 HZ Keyfob: CR2032 battery Door Detector: CR123A battery PIR-Camera: CR123A battery
Standby Time	Hub:The battery lasts up to 12 hours when it is fully charged and is within the following conditions: It is connected to the Wi-Fi, its ID is connected to the alarm receiving center, the heartbeat interval is 1,800 seconds, and it is connected to 8 peripherals and the cloud. Keyfob: 3 years Door Detector: 4 years PIR-Camera: 4 years (if triggered twice a week with a battery efficiency of 70%)
Power Consumption	Hub: 220 VAC 80 mA(Max) 220 VAC 40 mA(Standby) Keyfob: 40 mA(Max), 0.5 uA (Standby) Door Detector: 42 mA(Max), 29 uA (Standby) PIR-Camera: 6 W (Max), 0.2 mW (Standby)
Operating Temperature	All: −10 °C to +55 °C (+14 °F to +131 °F) (indoor)

Operating Humidity	All: 10%–90% (RH)
Product Dimensions	Hub: 174.8 mm × 174.8 mm × 38.3 mm (6.88" × 6.88" × 1.51") (L × W × H) Keyfob: 60.0 mm × 39.5 mm × 15.0 mm (2.36" × 1.56" × 0.59") (L × W × H) Door Detector: 100.2 mm × 20.8 mm × 20.3 mm (3.94" × 0.82" × 0.80") (L × W × H) PIR-Camera: 71.0 mm × 53.2 mm × 127.6 mm (2.80" × 2.09" × 5.02") (L × W × H)
Net Weight	Hub: 510 g (1.12 lb) Keyfob: 20 g (0.04 lb) Door Detector: 70 g (0.15 lb) PIR-Camera: 202 g (0.45 lb)
Gross Weight	Kit: 1.66 kg (3.66 lb)
Installation	Hub: Wall mount; Desktop mount Door Detector: Bracket mount PIR-Camera: Wall mount
Casing Material	All: PC + ABS
Certifications	Hub: CE EN 50131-1:2006+A1:2009+A2:2017+A3:2020 EN 50131-3:2009 EN 50131-6:2017+A1:2021 EN 50131-5-3:2017 EN 50131-10:2014 EN 50136-2: 2013+A1:2023 Security Grade 2 Environmental Class II ATS category: SP2/DP2 Keyfob: CE EN 50131-1:2006+A1:2009+A2:2017 +A3:2020 EN 50131-6:2017 EN 50131-5-3:2017 EN 50131-3:2009 Security Grade 2 Environmental Class II Door Detector: CE EN 50131-1:2006+A1:2009+A2:2017+A3:2020 EN 50131-6:2017 EN 50131-5-3:2017 EN 50131-2-6:2008 Security Grade 2 Environmental Class II PIR-Camera: CE EN 50131-1:2006 + A1:2009 + A2:2017 + A3:2020 EN 50131-2-2:2021 EN 50131-6:2017 EN 50131-5-3:2017 EN 50130-4:2011 + A1:2014(+) Security Grade 2 Environmental Class II
Anti-corrosion Level	Basic Protection
Storage Temperature	All: −10 °C to +55 °C (+14 °F to +131 °F)
Storage Humidity	All: 10%–90% (RH)
Packaging Dimensions	Kit: 270 mm × 218 mm × 123 mm (10.63" × 8.58" × 4.84") (L × W × H)

Wi-Fi	
Wi-Fi Standard	Hub:IEEE 802.11b/g/n PIR-Camera: 802.11b/g/n
Wi-Fi Frequency Range	Hub:2400-2483.5 MHz PIR-Camera: 2400-2483.5MHz
Wi-Fi Power Transmission	Hub:≤20 dBm@2400-2483.5 MHz PIR-Camera: CE EIRP: ≤20dBm@2400-2483.5MHz FCC output power: ≤30dBm@2400-2483.5MHz

Cellular Network	
Cellular Network Standard	Hub:GSM/WCDMA/LTE
Frequency Range	Hub: EU: 4G: FDD-LTE: B1/B3/B7/B8/B20/B28A; TDD-LTE: B38/B40/B41; 3G: WCDMA: B1/B8; 2G: GSM: 1,800/900MHz
Transmitter Power (EIRP)	Hub: EU: 4G: Power class3: 23 dBm ± 2 dB 3G: Power class3: 24 dBm+1/-3 dB 2G: Power class0: 30 dBm ± 3 dB (GSM900) Power class5: 33 dBm ± 3 dB (GSM1800)

Ordering Information		
Type	Model	Description
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Application

