

# DHI-ART-ARC3800H-03-FW2(915)

## Dahua Wireless Alarm KIT



### Series 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

Wired Input	Expandable 64 channels
Wired Output	Expandable 64 channels
Connected Peripheral	150 peripherals (including wireless and wired devices): Specifically, up to wireless 64 keyfobs up to 8 wireless keypads up to 6 wireless sirens (including 4 intercom sirens) up to 6 wireless repeaters up to 64 wireless PIR-Cam (including Indoor PIR Cameras, Outdoor PIR Cameras, and Triple-tech Detectors) up to 16 Multi I/O Transmitters up to 16 RS-485 Expander modules (including Input Expander and Output Expander)
Area	32 areas (rooms)
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 Mbps/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

- 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 Detector: 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 Detector: 1 power switch
SMS	Hub: Yes (up to 12 phone numbers)
Phone Call	Hub: Yes (up to 12 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 Door Detector: Yes PIR Detector: Yes
User Management	Hub: 33 app users (31 general users, 1 admin user and 1 installer) and 32 keypad users
Logs	Hub: Up to 5,000 entries

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Measuring Range (Temperature)	Door Detector: -15 °C to +65 °C (+5 °F to +149 °F) (indoor) PIR Detector: -15 °C to +65 °C (+5 °F to +149 °F) (indoor)
Transmission Protocol	Hub: SIA, SoftGuard

## Technical

Sensor	Door Detector: Reed switch PIR Detector: Dual elements low-noise PIR sensor
Detection Mode	PIR Detector: PIR
Sensitivity	PIR Detector: 3 levels adjustable
Detection Range	PIR Detector: 12 m (39.37 ft) (90°) with installation height of 2.2 m (7.21 ft)
Detection Speed	PIR Detector: 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 Detector: ≤ 18 kg (39.68 lb)
White Light Resistance Level	PIR Detector: 2000 lx
Two-way Digital Temperature Compensation	PIR Detector: Yes, no attenuation of detection distance in high temperature.
Scenario	Door Detector: Non-metal doors

## Wireless

Carrier Frequency	915-928 MHz
Transmitter Power (EIRP)	Limit 1W
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 1,400 m (4,593.18 ft) in an open space PIR Detector: Up to 1,600 m (5249.34 ft) in an open space.
Encryption Mode	All: AES128
Frequency Hopping	All: Yes

## General

Language	Supports 18 languages: Arabic, Czech, Danish, Dutch, English, French, German, Italian, Portuguese (Europe), Russian, Spanish (Latin America), Spanish (Europe), Turkish, Slovak, Polish, Greek, Bulgarian, Estonian. It is set as English by default
Power Supply	Hub: 100-240 VAC, 50/60 HZ Keyfob: CR2032 battery Door Detector: CR123A battery PIR Detector: 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: 5 years PIR Detector: 4 years
Low Battery Threshold	Hub: 2.7V Door Detector: 2.2V

Low Battery Threshold	PIR Detector: 2.5V Keyfob: 1.8V
Battery Restore Threshold	Hub: 2.8V Door Detector: 2.6V PIR Detector: 2.7V Keyfob: 2.0V
Power Consumption	Hub: 220 VAC 80 mA(Max) 220 VAC 40 mA(Standby) Keyfob: 40 mA(Max), 0.5 uA (Standby) Door Detector: 734.8 mA (Max), 23.9 uA (Standby) PIR Detector: 44 mA(Max), 34 uA (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 mm × 39.5 mm × 15 mm (2.36" × 1.56" × 0.59") (L × W × H) Door Detector: 101 mm × 21 mm × 22.2 mm (3.98" × 0.83" × 0.87") (L × W × H) PIR Detector: 104 mm × 60 mm × 50 mm (4.09" × 2.36" × 1.97") (L × W × H)
Net Weight	Hub: 510 g (1.12 lb) Keyfob: 20 g (0.04 lb) Door Detector: 48.7 g (0.11 lb) PIR Detector: 100 g (0.22 lb)
Gross Weight	Kit: 1.44 kg (3.17 lb)
Installation	Hub: Wall mount; Desktop mount Door Detector: Bracket mount PIR Detector: Wall mount
Casing Material	All: PC + ABS
Certifications	All: CE
Anti-corrosion Level	Basic Protection *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion 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 × 122 mm (10.63" × 8.58" × 4.80") (L × W × H)

## Wi-Fi

Wi-Fi Standard	Hub: IEEE 802.11b/g/n
Wi-Fi Frequency Range	Hub: 2400-2483.5 MHz
Wi-Fi Power Transmission	Hub: ≤20 dBm @2400-2483.5 MHz

## Cellular Network

Transmitter Power (EIRP)	Hub: EU: 4G: Power class3: 23 dBm±2dB 3G: Power class3: 24 dBm+1/-3dB 2G: Power class0: 30 dBm±3dB ( GSM900 ) Power class5: 33 dBm±3dB ( GSM1800 )
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;

## Ordering Information

Type	Model	Description
Alarm KIT	DHI-ART-ARC3800H-03-FW2(915)	Dahua Wireless Alarm KIT

## Application

