

# DHI-ART-ARC3800H-03-FW2

## 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.

### Scene

Mainly applied for villas, shops, apartments, etc.

### 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 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. (ARD1731 and ARD2251E-W2(V) need to be purchased separately)
- Features voice call alarm.(SIM card is needed)
- 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 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 Door Detector: Yes PIR Detector: Yes

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<b>User Management</b>	Hub: 33 app users (31 general users, 1 admin user and 1 installer) and 32 keypad users
<b>Logs</b>	Hub: Up to 5,000 entries
<b>Measuring Range (Temperature)</b>	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)
<b>Transmission Protocol</b>	Hub: SIA, SoftGuard

## Technical

<b>Sensor</b>	Door Detector: Reed switch PIR Detector: Dual elements low-noise PIR sensor
<b>Detection Mode</b>	PIR Detector: PIR
<b>Sensitivity</b>	PIR Detector: 3 levels adjustable
<b>Detection Range</b>	PIR Detector: 12 m (39.37 ft) (90°) with installation height of 2.2 m (7.21 ft)
<b>Detection Speed</b>	PIR Detector: 0.3 m/s–3 m/s (0.98 ft/s–9.84 ft/s)
<b>Movement Distance</b>	Door Detector: < 40 mm (1.57")
<b>Pet Immunity Level</b>	PIR Detector: ≤ 18 kg (39.68 lb)
<b>White Light Resistance Level</b>	PIR Detector: 6500 lx
<b>Two-way Digital Temperature Compensation</b>	PIR Detector: Yes, no attenuation of detection distance in high temperature.
<b>Scenario</b>	Door Detector: Non-metal doors

## Wireless

<b>Carrier Frequency</b>	All: 433.1 MHz–434.6 MHz
<b>Transmitter Power (EIRP)</b>	All: Limit 10 mW
<b>Communication Mechanism</b>	All: Two-way
<b>Communication Distance</b>	Hub: Up to 1,400 m (4593.18 ft) in an open space. Keyfob: Up to 500 m (1640.42 ft) in an open space. Door Detector: Up to 1,000 m (3280.84 ft) in an open space. PIR Detector: Up to 1,200 m (3937.01 ft) in an open space.
<b>Encryption Mode</b>	All: AES128
<b>Frequency Hopping</b>	All: Yes

## General

<b>Language</b>	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.
<b>Power Supply</b>	Hub: 100-240 VAC, 50/60 HZ Keyfob: CR2032 battery Door Detector: CR123A battery PIR Detector: CR123A battery
<b>Standby Time</b>	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 Detector: 4 years

<b>Power Consumption</b>	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 Detector: 44 mA(Max), 34 uA (Standby)
<b>Operating Temperature</b>	All: -10 °C to +55 °C (+14 °F to +131 °F) (indoor)
<b>Operating Humidity</b>	All: 10%–90% (RH)
<b>Product Dimensions</b>	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 Detector: 104.0 mm × 60.0 mm × 50.0 mm (4.09" × 2.36" × 1.97") (L × W × H)
<b>Net Weight</b>	Hub: 510 g (1.12 lb) Keyfob: 20 g (0.04 lb) Door Detector: 70 g (0.15 lb) PIR Detector: 100 g (0.22 lb)
<b>Gross Weight</b>	Kit: 1.46 kg (3.22 lb)
<b>Installation</b>	Hub: Wall mount; Desktop mount Door Detector: Bracket mount PIR Detector: Wall mount
<b>Casing Material</b>	All: PC + ABS
<b>Certifications</b>	All: CE
<b>Anti-corrosion Level</b>	Basic Protection
<b>Storage Temperature</b>	All: -10 °C to +55 °C (+14 °F to +131 °F)
<b>Storage Humidity</b>	All: 10%–90% (RH)
<b>Packaging Dimensions</b>	Kit: 270 mm × 218 mm × 122 mm (10.63" × 8.58" × 4.80") (L × W × H)

## Wi-Fi

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

## Cellular Network

<b>Transmitter Power (EIRP)</b>	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) Hub: LM: 4G: Power class3: 23 dBm±2dB 3G: Power class3: 24 dBm+1/-3dB 2G: Power class0: 30 dBm±3dB (GSM850/900) Power class5: 33 dBm±3dB (GSM1800/1900)
<b>Cellular Network Standard</b>	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;
	Hub:
	LM: 4G: FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B28; TDD-LTE: B40; 3G: WCDMA: B1/B2/B4/B5/B8; 2G: GSM: 850/900/1800/1900 MHz;

## Ordering Information

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

## Application

