dahua
TECHNOLOGY

DHI-ART-ARC3800H-06-FW2
Dahua Wireless Alarm KIT

· 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 net works 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

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

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) PIR Detector: 1 green alarm indicator Siren: 1 green alarm indicator External Siren: 1 green alarm indicator, 12 alarm LED groups
Button	Hub: Includes a reset button, voltage button and AP switch button. Keyfob: 4 (Home, Away, Disarm, and SOS) PIR Detector: 1 power switch Siren: 1 power switch External Siren: 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 Detector: Yes Siren: 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)	PIR Detector: −15 °C to +65 °C (+5°F to +149 °F) (indoor) Siren: −15 °C to +65 °C (+5 °F to +149 °F) (indoor)
Transmission Protocol	Hub: SIA, SoftGuard

Technical

Sensor	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)
Pet Immunity Level	PIR Detector: ≤18 kg (39.68 lb)
White Light Resistance Level	PIR Detector: 6500 lx
Two-way Digital Temperature Compensation	PIR Detector: Yes, no attenuation of detection distance in high temperature.
Sound Pressure	Siren: ≥105 ± 3 dB\1M External Siren: 95.2 ≤ LAFmax [dB(A)] ≤ 104.9 (EN 50131-4:2019)

Wireless

Carrier Frequency	All: 433.1 MHz–434.6 MHz
Transmitter Power (EIRP)	All: Limit 10 mW
Communication Mechanism	All: Two-way
Communication Distance	Hub: Up to 1,400 m (4,593.18 ft) in an open space. Keyfob: Up to 500 m (1,640.42 ft) in an open space. PIR Detector: Up to 1,200 m (3937.01 ft) in an open space. Siren: Up to 800 m (2,624.67 ft) in an open space External Siren: Up to 1,200 m (3,937.01 ft) in an open space
Encryption Mode	All: AES128
Frequency Hopping	All: Yes

General

Language	English
Power Supply	Hub: 100-240 VAC, 50/60 HZ Keyfob: CR2032 battery PIR Detector: CR123A battery Siren: 2 CR123A batteries External Siren: 4 CR123A batteries/9-15 VDC
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 PIR Detector: 4 years
Power Consumption	Hub: Max 12 W Keyfob: Max 100 mW PIR Detector: Max 120 mW Siren: Max 230 mW External Siren: 4.2 W (Max), 0.3 mW (Standby) (Battery 3 V); 12 W (Max), 87.6 mW (Standby) (12 VDC)
Operating Temperature	Hub: −10 °C to +55 °C (+14 °F to +131 °F) (indoor) Keyfob: −10 °C to +55 °C (+14 °F to +131 °F) (indoor) PIR Detector: −10 °C to +55 °C (+14 °F to +131 °F) (indoor) Siren: −10 °C to +55 °C (+14 °F to +131 °F) (indoor) External Siren: −25 °C to +60 °C (−13 °F to +140 °F)
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) PIR Detector: 104.0 mm × 60.0 mm × 50.0 mm (4.09" × 2.36" × 1.97") (L × W × H) Siren: 81.0 mm × 81.0 mm × 26.0 mm (3.19" × 3.19" × 1.02") (L × W × H) External Siren: 200 mm × 200 mm × 52.5 mm (7.87" × 7.87" × 2.07") (L × W × H)

Net Weight	Hub: 510 g (1.12 lb) Keyfob: 20 g (0.04 lb) PIR Detector: 100 g (0.22 lb) External Siren: 610 g (1.34 lb) Siren: 105 g (0.23 lb)
Gross Weight	Kit: 3 kg (6.61 lb)
Installation	Hub: Wall mount; Desktop mount PIR Detector: Wall mount External Siren: Wall mount Siren: Bracket mount
Casing Material	All: PC + ABS
Protection	External Siren: IP65
Certifications	All: CE,RCM
Anti-corrosion Level	Basic Protection
Storage Temperature	Hub: −10 °C to +50 °C (+14 °F to +122 °F) (indoor) Keyfob: −10 °C to +55 °C (+14 °F to +131 °F) (indoor) PIR Detector: −10 °C to +55 °C (+14 °F to +131 °F) (indoor) External Siren: −25 °C to +60 °C (−13 °F to +140 °F) Siren: −10 °C to +55 °C (+14 °F to +131 °F) (indoor)
Storage Humidity	All: 10%–90% (RH)
Packaging Dimensions	Kit: 288 mm × 256 mm × 237 mm (11.34" × 10.08" × 9.33") (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

Cellular Network Standard	Hub:GSM/WCDMA/LTE
Frequency Range	Hub: EU and AU: 4G: FDD-LTE: B1/B3/B7/B8/B20/B28A; TDD-LTE: B38/B40/B41; 3G: WCDMA: B1/B8; 2G: GSM: 1,800/900 MHz
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	
Alarm KIT	DHI-ART-ARC3800H-06-FW2	1*Hub	ARC3800H-FW2
		1*Keyfob	ARA24-W2
		3*PIR Detector	ARD1233-W2
		1*Internal Siren	ARA12-W2
		1*External Siren	ARA13-W2

Application