

INVISIBLE CONNECTION, TANGIBLE PROTECTION

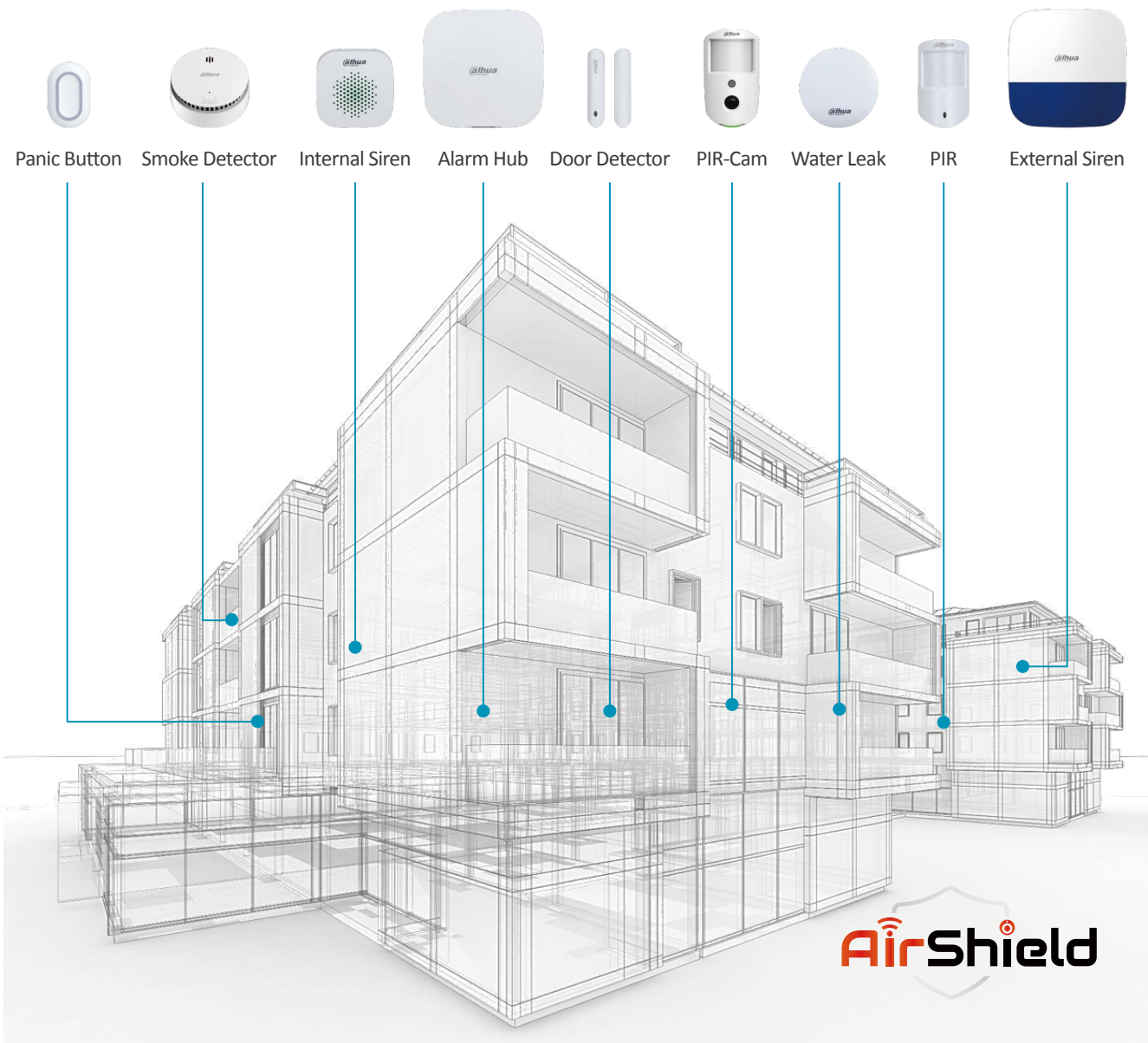
Dahua AirShield Wireless Security System



Overview

The Dahua AirShield Wireless Security System consists of alarm hubs, various wireless peripherals and several applications for end users, installers and ARCs. It complies with EN50131 Grade 2 standards and is equipped with cutting-edge technologies to ensure the safety, reliability and ease of use of the system.

Featuring easy installation, stable connectivity, user-friendly mobile management and other advanced functions, the system provides modern residences and commercial buildings with tangible protection through invisible connection.



Technologies

The AirShield Wireless Security System is advanced, stable and reliable thanks to the application of these technologies: Airfly 3.0, RF-HD, and Cloud services.

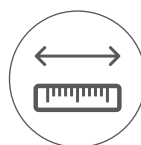
Airfly 3.0



Frequency hopping



2-way communication



Long range



AES128 Encryption

It is a wireless RF communication technology that uses Sub-G (433MHz or 868MHz) for event transmissions between the Hub and peripherals. It offers excellent stability, reliability and communication range.

RF-HD



2.4GHz



Fast image transmission



High resolution

RF-HD is applied in image transmission. It uses 2.4G band and features faster image transmission speed and higher image resolution (up to 2MP).

Cloud



DMSS for end user



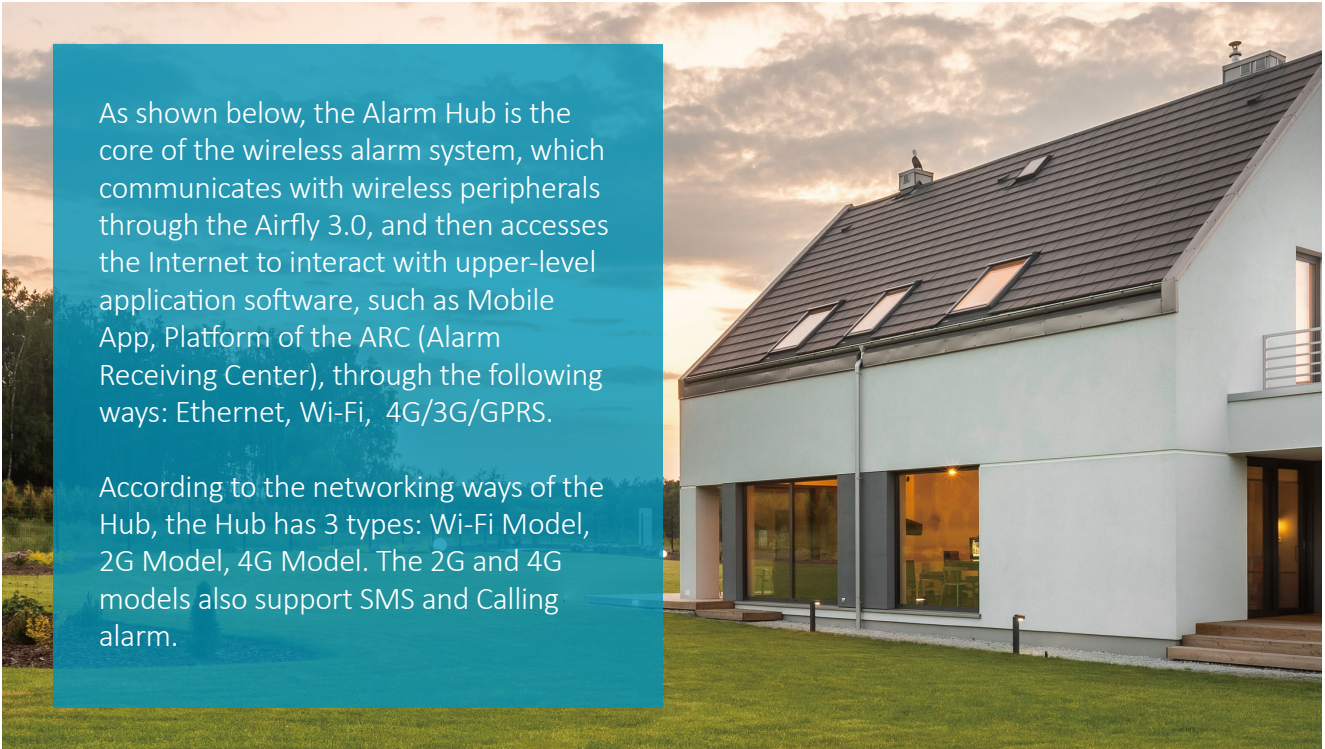
DoLynk Care for installer



Converter for ARC

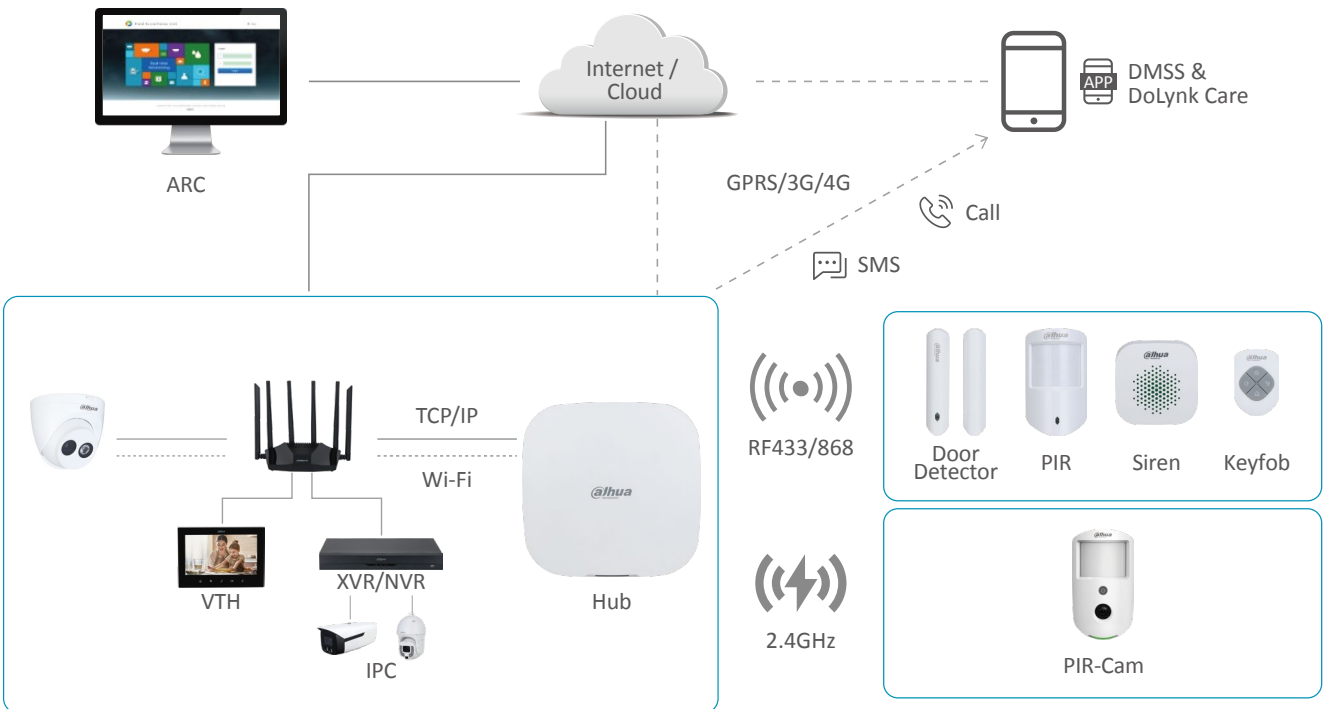
Basing on Dahua Cloud services, we make alarm monitoring services more convenient, efficient, economical, and better experience.

Topology



As shown below, the Alarm Hub is the core of the wireless alarm system, which communicates with wireless peripherals through the Airfly 3.0, and then accesses the Internet to interact with upper-level application software, such as Mobile App, Platform of the ARC (Alarm Receiving Center), through the following ways: Ethernet, Wi-Fi, 4G/3G/GPRS.

According to the networking ways of the Hub, the Hub has 3 types: Wi-Fi Model, 2G Model, 4G Model. The 2G and 4G models also support SMS and Calling alarm.



Recommended Products

CONTROL PANEL



With a brand new industrial design and advanced technological system, this new generation of wireless alarm Hub is easier to install, looks better, communicates more reliably with peripherals, and performs more stably. With the comfort that the mobile apps DMSS (for end users) and DoLynk Care (for installers) bring, you can receive notifications in real time, control and manage all your devices, perform remote operations, and more.

Hub

- ARC3000H-W2
- ARC3000H-W2(868)
- ARC3000H-GW2
- ARC3000H-GW2(868)
- ARC3000H-FW2
- ARC3000H-FW2(868)



Multiple networking methods



Visual verification



Built-in rechargeable battery



Cloud update

The wireless Repeater can extend the communication range between the Hub and the peripherals, and forward messages received from the peripherals to the Hub. It can provide a secondary communication path, which helps improve the overall stability and reliability of the communication in the wireless security system. You can select a path manually or allow the system to automatically select one of the options on mobile apps.



Up to 32 peripherals



Auto switches from dual antennas



Manual and auto pairing



Cloud update



Repeater

- ARA43-W2
- ARA43-W2(868)

MOTION DETECTOR



PIR Detector

ARD1233-W2
ARD1233-W2(868)

The wireless PIR Detector can detect if there is a human moving around and provide timely notifications of alarm events. It can also differentiate humans and animals to reduce false alarms.



Pet immunity



Up to 4 years



Temperature measurement



Cloud update

With the built-in 2 MP CMOS image sensor, the wireless PIR-Camera can capture snapshots in high resolution when it detects intrusion, and then transmit them to the Hub. The PIR-Camera can protect your privacy by taking snapshots only when an intrusion occurs or a snapshot demand is given by an admin user.



Pet immunity



Fast transmission



Temperature measurement



Cloud update



PIR-Camera

ARD1731-W2
ARD1731-W2(868)



Dual-Tech Detector

ARD2231-W2
ARD2231-W2(868)



The wireless Dual-Tech Detector is an indoor detector against human intrusion. With passive IR and microwave technologies, the device can detect human body movements and activate the alarm when the target enters the detection range.



Pet immunity



PIR & Microwave



Temperature measurement



Cloud update

DETECTORS



Glass Break Detector

ARD512-W2
ARD512-W2(868)

The wireless Glass Break Detector monitors the surrounding audio signal. With advanced algorithm, it can tell if the glass is broken.



Wired input



Up to 3 years



Temperature measurement



Cloud update

The wireless Smoke Detector provides battery-powered smoke detection and alarm functions within a single unit. It can provide early detection of smoke and high immunity against unwanted alarms.



Split-spectrum sensor



Up to 3 years



Test and silence button



Over 85dB(A)



Low quiescent current consumption



Smoke Detector

HY-SA21A-W2
HY-SA21A-W2(868)



Water Leak Detector

ARD912-W2 ARD912-W2(D)
ARD912-W2(868) ARD912-W2(868D)

The Wireless Water Leak Detector detects water leakage in the monitored area and sends the information to the Hub.



Hassle-free installation



Up to 3 years



One-piece/
Detached models



Cloud update

MAGNETIC CONTACT





The wireless Door Detector consists of a sensor and a magnet that can trigger an alarm when an armed door or window is opened.



Door Detector





ARD323-W2 ARD323-W2(S)
 ARD323-W2(868) ARD323-W2(868S)



-  Temperature measurement
-  Up to 5 years
-  Wired input
-  Cloud update

The wireless Door Detector Plus can detect not only the opening or closing of the door or window, but also the tilt or shock on them.



-  Temperature measurement
-  Up to 3 years
-  Wired input
-  Cloud update



Door Detector Plus

ARD324-W2 ARD324-W2(S)
 ARD324-W2(868) ARD324-W2(868S)

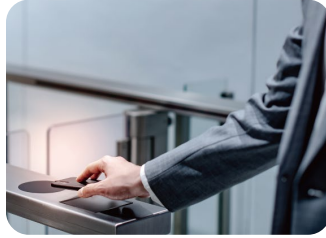
REMOTE CONTROL



Keypad

ARK30T-W2
ARK30T-W2(868)

The wireless Keypad supports multiple users, allowing them to arm/disarm the alarm security system with their own private passcodes and IC cards.



3 shortcut alarms



Duress alarm



No password arming



Cloud update

The wireless Keyfob can remotely control the wireless security system.



Emergency alarm



Up to 5 years



Cloud update



Keyfob

ARA24-W2
ARA24-W2(868)



Panic Button (Single)

ARD821-W2
ARD821-W2(868)



Panic Button (Dual)

ARD822-W2
ARD822-W2(868)

The wireless Panic Button supports multiple types of alarms to meet a wide variety of scenarios. It can trigger alarms for intrusions, fire, gas leaks, and more. The Panic Button (Single) can be set to control Relay or WallSwitch.



IP54



Accidental press prevention



Up to 5 years



Cloud update

SIREN





The wireless Internal Siren is an indoor siren that activates when an alarm event occurs. It offers danger warning and intrusion deterrence. It can also be set as a doorbell when the system is disarmed.



Internal Siren





ARA12-W2
ARA12-W2(868)



-  Up to 2.5 years
-  Multiple sounds
-  Doorbell function
-  Cloud update

The wireless External Siren is an outdoor siren that activates loud sound when an alarm event occurs, thus attracting the attention of everyone within its vicinity.



-  Temperature measurement
-  Multiple sounds
-  IP65
-  Cloud update



External Siren

ARA13-W2
ARA13-W2(868)

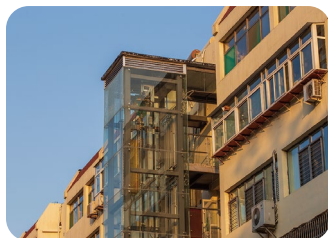
I/O EXPANDER



Input Expander

ARM310-W2
ARM310-W2(868)

The wireless Input Expander is a conversion device that can connect with a wired detector and forward its alarm information to the hub.



Multiple alarm types



Up to 5 years



Input types:
NO, NC & Pulse



Cloud update

The wireless Relay is used to control the power supply of other devices through created scenarios or mobile apps.



Overheat & overload protection



Power supply:
7-24V DC



Load capacity:
0-36V 5A DC



Cloud update



Relay

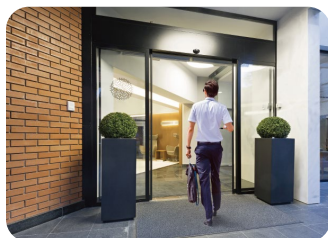
ARM7011-W2
ARM7011-W2(868)



WallSwitch

ARM7012-W2
ARM7012-W2(868)

The wireless WallSwitch is similar to Relay in terms of functions. The main differences between them are the power supply and relay output.



Overheat & overload protection



Power supply:
100-240V AC



Relay output:
100-240V 13A AC

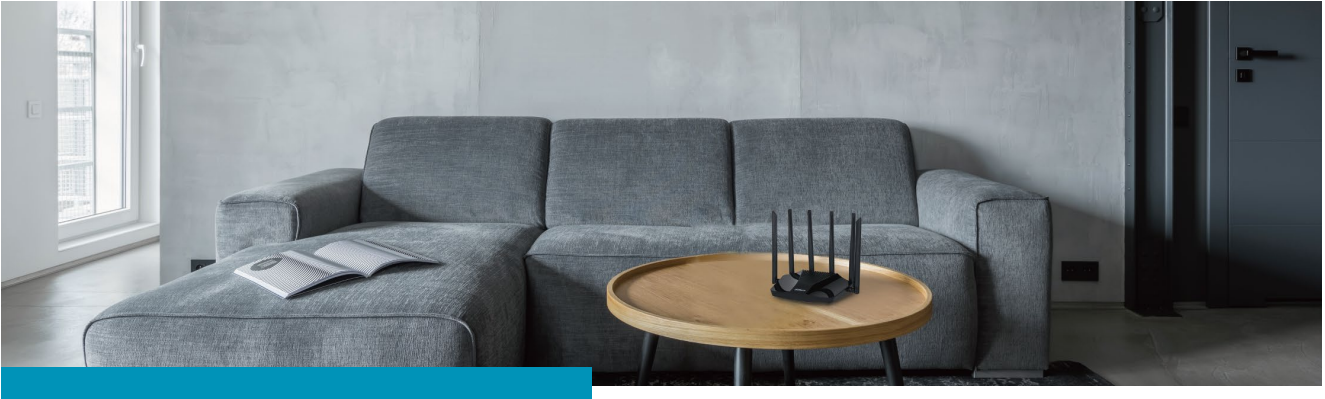


Cloud update



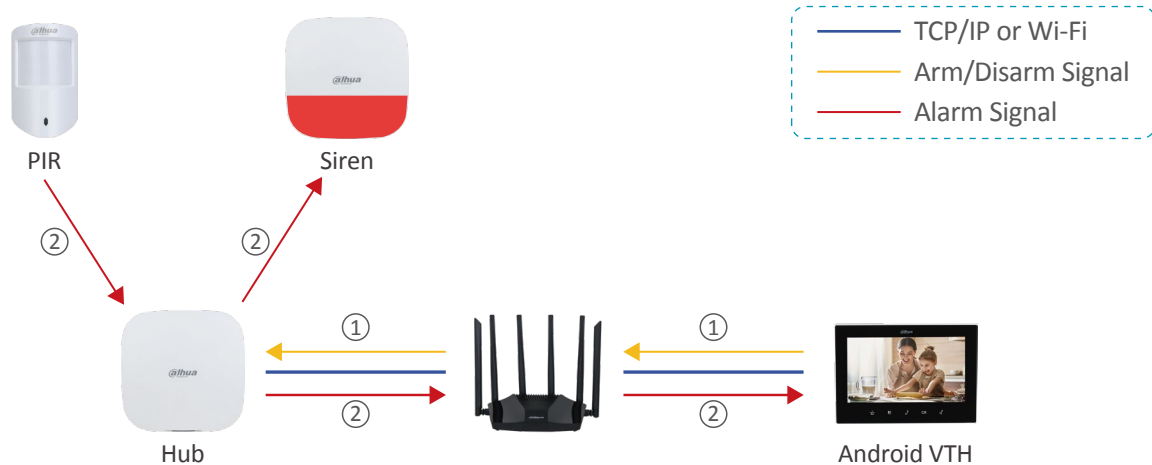
Monitors voltage, current
and energy consumption

Solutions



INTERCONNECTION WITH VTH

The Hub performs information exchange with VTH through LAN, eliminating the need for additional wiring. The VTH can be used as an alarm keypad with a touch screen, which can provide great comfort to the residents of the property.



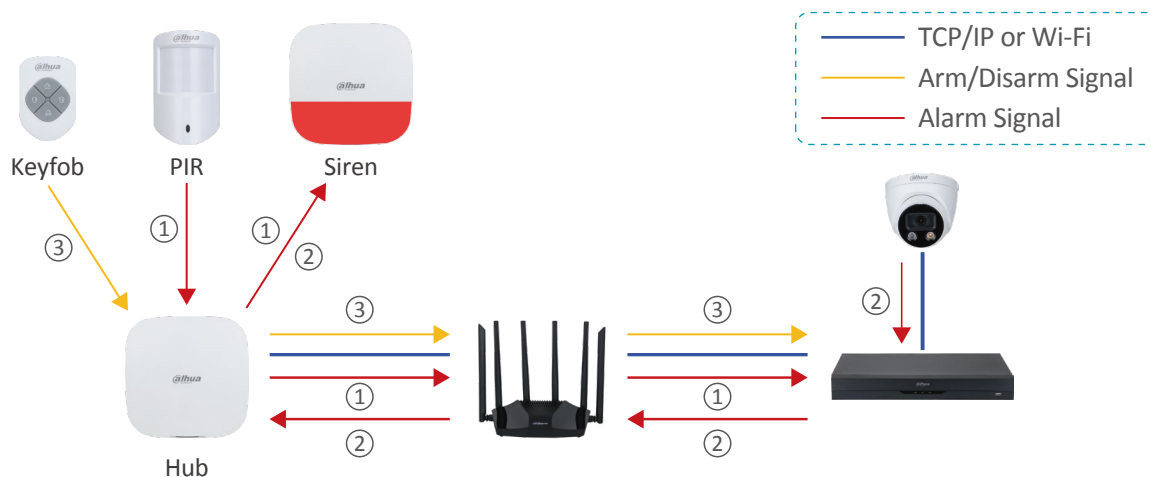
① After the alarm Hub is added to the VTH, the alarm system can be armed or disarmed on the VTH, and the status information of each equipment of the alarm system can be viewed.

② When a detector generates an alarm, the siren will be activated and relevant alarm information will be sent to VTH.



INTERCONNECTION WITH NVR/XVR

The Hub performs information exchange with NVR/XVR through LAN without additional wiring construction, realizing multiple linkage applications.



- ① After the alarm Hub is added to the NVR and the linkage rules are configured on the NVR (detector is linked to the video channel, and channel's intelligent alarm is linked to the siren), the siren will be activated and the corresponding video channel will start recording when the detector triggers the alarm.
- ② After the intelligent alarm event of the monitoring system is generated, the alarm signal will activate the siren according to the linkage rules.
- ③ When the alarm system is armed or disarmed, the monitoring system will also enter the armed or disarmed status synchronously.



INTEGRATION WITH ARC VIA SIA PROTOCOL

SIA DC-09 is a standard protocol widely used in the alarm monitoring industry. Based on this protocol, control panels of different brands can be integrated with platforms of different brands to realize functional applications such as event receiving, visual alarm verification, and remote arming and disarming.



Highlights

Simple

Almost no additional development is required to complete the integration.

Fast

Only a few steps of simple configuration are needed to integrate the device into the platform software.

Convenient

SIA protocol is an industry standard integration protocol, which is supported by most alarm monitoring software.

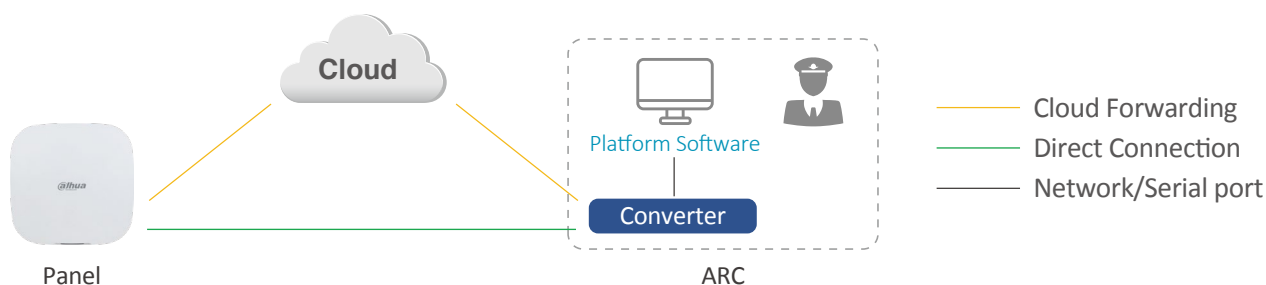
Scenarios

- The ARCs that have public static IP and support mapping the internal service port to the external network.



INTEGRATION WITH ARC VIA CONVERTER

Converter is a software that forwards events generated by the Dahua security system to the ARC platform according to standard protocols such as SIA, Sur-Gard, or the private protocol of the platform itself.



Highlights

Hassle-free

All the panels and events are managed on Converter. Personnel in the ARC can configure event forwarding methods, protocols, and event types as needed, while the platform software only needs to receive, record, and process these events.

Compatible

In order to be more compatible with more platforms, Converter not only supports multiple standard protocols, but also supports customization of private protocols for different platforms.

Connected

With Converter, Dahua can display ARCs information on the mobile app of users and installers, making it easier for them to monitor their application scenarios and allowing further business expansion for ARCs.

Scenarios

- The ARCs that do not want to be directly connected to the panel to avoid extra load on the platform.
- The ARCs that do not have public static IP.
- The ARCs that have public static IP but do not want to map the internal service port to the external network.

ENABLING A SAFER SOCIETY AND SMARTER LIVING

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* Design and specifications are subject to change without notice.

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Partner App



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