



dahua ARA43-W2 Radio Alarm Repeater User Manual

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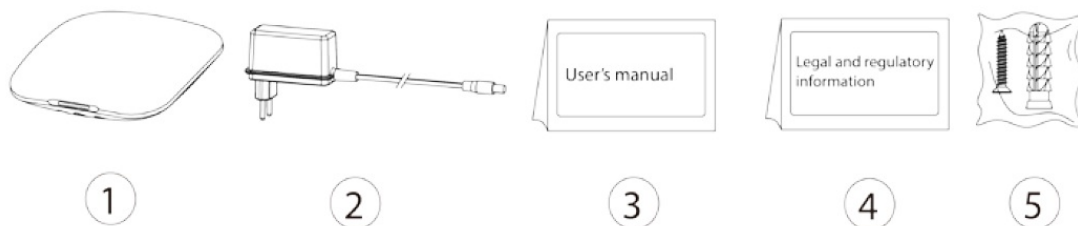
dahua ARA43-W2 Radio Alarm Repeater



Introduction

Alarm repeater is a wireless repeater device that extends the communication range between the alarm hub and other accessories, and forwards messages received from the accessory to the hub. It provides a secondary communication path for accessories, improving the overall stability and reliability of communication of the wireless security system. You can use the DMSS app to manually select a path for accessories or allow the system to automatically select one for them. It is suitable for security use in scenes, such as villas with multiple floors, garages that are far away from residential areas, or office buildings and shops with partitions.

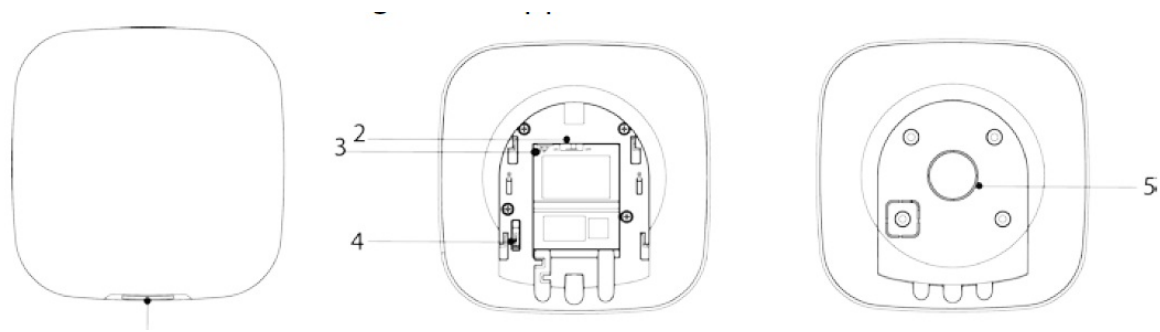
Checklist



No.	Item Name	Quantity	No.	Item Name	Quantity
1	Alarm repeater	1	4	Legal and regulatory information	1
2	Adapter	1	5	Screw package	1
3	User's manual	1	—	—	—

Design

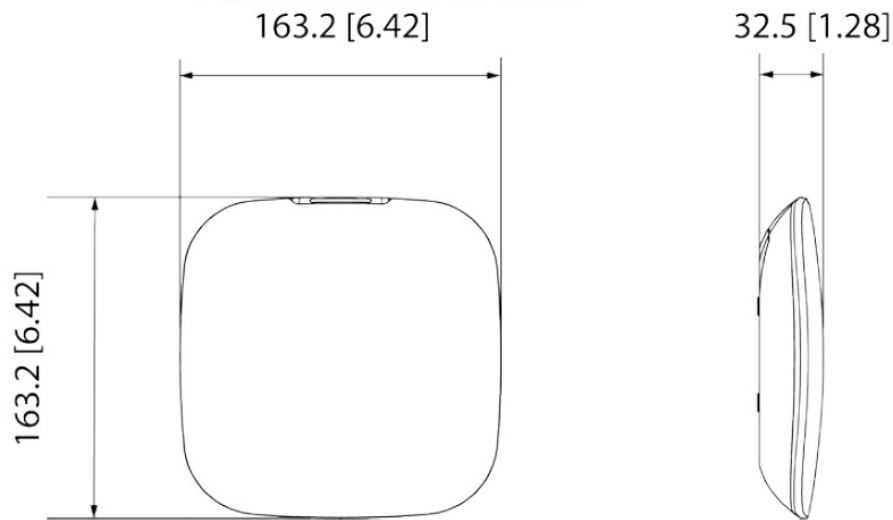
Appearance



No.	Name	Description
1	Indicator	<ul style="list-style-type: none">● Solid green: Turned on.● Flashes green: Pairing with the hub.
2	Power switch	Switch to ON to turn on the repeater, and OFF to turn it off. OFF is set by default.
3	Power cable socket	Insert power cable. Powered by 12 VDC power supply.
4	Tamper switch	When the tamper switch is released, the tamper alarm will be triggered.
5	Lid	<ul style="list-style-type: none">● Lid closed: Normal status.● Lid open: If the lid is opened, the tamper alarm will be triggered.

Dimensions

Figure 3-2 Dimensions (mm[inch])



Connecting to the Hub

Before you connect it to the hub, install the DMSS app to your phone. This manual uses iOS as an example.

- Make sure the version of the DMSS app is 1.94 and later, and the hub is V1.001.0000000.4.R.210923 and later.
- Make sure that you have already created an account, and added the hub to DMSS.
- Make sure that the hub has a stable internet connection.
- Make sure that the hub is disarmed.

Step 1 Go to the hub screen, and then tap to add the repeater.

Step 2 Tap to scan the QR code at the bottom of the repeater, and then tap Next.

Step 3 Tap Next after the repeater has been found.

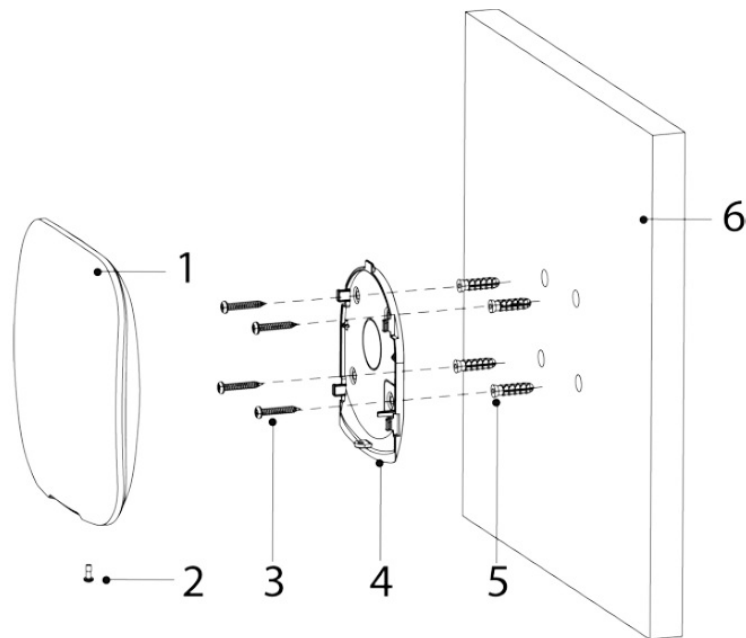
Step 4 Follow the on-screen instructions and switch the repeater to ON, and then tap Next.

Step 5 Wait for the pairing.

Step 6 Customize the name of the repeater and select the area, and then tap Completed.

Installation

Prior to installation, connect the repeater to the hub and check the signal level at the installation location. We recommend installing the repeater in a place with the signal strength of at least 2 bars. Use the provided screws to mount the repeater in locations accessible for future maintenance. Mount the repeater in a location that does not have metals and metal objects. Duct work, wire mesh screens and boxes, and other similar metal based objects will reduce the RF range.



No.	Item Name	No.	Item Name
1	Repeater	4	Mounting plate
2	M3 × 8 mm countersunk head screw	5	Expansion bolt
3	ST4 × 25 mm self-tapping screw	6	Wall

Step 1 Confirm the position of screw holes, and then drill them on the mounting plate. **Step 2** Put the expansion bolts into the holes.

Step 3 Put the mounting plate into the wall, and then align the screw holes on the plate with the expansion bolts.

Step 4 Fix the mounting plate with ST4 × 25 mm self-tapping screws.

Step 5 Put the alarm hub into the mounting plate from top to bottom.

Step 6 Fix the alarm hub and mounting plate with M3 × 8 mm countersunk head screws.

Configuration

On the Hub screen, select the repeater as needed from the accessory list, and then tap to configure the parameters of the repeater.

Parameter	Description
Device Configuration	<ul style="list-style-type: none"> • View device name, type, SN and device model. • Edit device name, and then tap Save to save configurations.
Area	Select the area to which the repeater is assigned.
Temporary Deactivate	<p>Tap Temporary Deactivate to enable or disable the functions of the repeater.</p> <ul style="list-style-type: none"> • Tap Enable, and then all accessory messages will be forwarded to the alarm hub. Enable is set by default. • Tap Only Disable Tamper Alarm, and then the system will only ignore tamper alarm messages. • Tap Disable, and then no accessory messages will be forwarded to the alarm hub through the repeater, and the system will ignore fault messages coming from the repeater. • If disabled, all the accessories that were manually set to forward messages through the repeater will be offline. Those selected to automatically send messages to the hub will select another communication path. • Even if you disable the functions of the repeater, the status of the accessories will be displayed as normal.

LED Indicator	<p>LED Indicator is enabled by default. For details on indicator behavior, see “3.1 Appearance”.</p> <p>If LED Indicator is disabled, the LED indicator will remain off regardless of whether the repeater is functioning normally or not.</p>
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Parameter	Description
Peripherals Pairing	<p>Tap Peripherals Pairing, and then you can manually set the accessories to forward messages to the hub through the repeater.</p> <ul style="list-style-type: none"> • View the status of all the accessories that are connected to the hub. • In the To be Paired list, select an accessory, and then tap next to the accessory to manually select a secondary communication path for it. Afterwards, the selected accessory will be displayed in the Paired list. • The system will automatically select a communication path for the accessories that were not manually added to the Paired list according to the signal strength. Automatic selection for the system is set by default. • If you want the system to automatically select a communication path for the accessory, you can also go to the Paired list, select the accessory from the list, and then swipe left to delete it. <p>You can also select > Peripherals Pairing to manually set the accessories to forward messages to the hub through the repeater.</p>
Signal Strength Detection	Test the current signal strength.

Transmit Power	<ul style="list-style-type: none"> • Select from high, low, and automatic. • The higher the transmission power, the farther the transmission and the higher power consumption is.
Cloud Update	<p>Update online. The repeater can forward messages received from the accessory to the hub even during an online update.</p> <p>Make sure the hub is disarmed and the repeater is powered up by a 12 VDC power supply.</p>
Delete	<p>Delete the repeater. If the repeater is deleted, the system will select another communication path for the accessories that have been manually set to forward messages to the hub through the repeater. You can also go to the Hub screen, select the repeater from the list, and then swipe left to delete it.</p>

Status of the Repeater


On the Hub screen, select the repeater as needed from the accessory list, and then you can view the status of the repeater.

Parameter	Description
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Temporary Deactivate	<p>The status for whether the functions of the repeater are enabled or disabled.</p> <ul style="list-style-type: none"> • Enable. • Only disable tamper alarm. • Disable.
Signal Strength	<p>The signal strength between the hub and the repeater.</p> <ul style="list-style-type: none"> • Low. • Weak. • Good. • Excellent.
External Power Status	<p>Connection status of the repeater with the power.</p> <ul style="list-style-type: none"> • Connected. • Disconnected. <p>If the repeater is powered off, it can work for up to 35 hours.</p>
Battery Level	<p>The battery level of the repeater.</p> <ul style="list-style-type: none"> • Fully charged. • Sufficient. • Moderate. • Insufficient. • Low <p>If the battery level is low, the repeater can work for up to 3.5 hours.</p>

Anti-tampering Status	Anti-tampering status of the repeater.
Online Status	<p>Online and offline status of the repeater.</p> <ul style="list-style-type: none"> • Online. • Offline.
Program Version	The program version of the repeater.

Documents / Resources

	<p>dahua ARA43-W2 Radio Alarm Repeater [pdf] User Manual ARA43-W2, Radio Alarm Repeater, Alarm Repeater, Radio Repeater, ARA43-W2, Repeater</p>
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