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Product Manual

Note

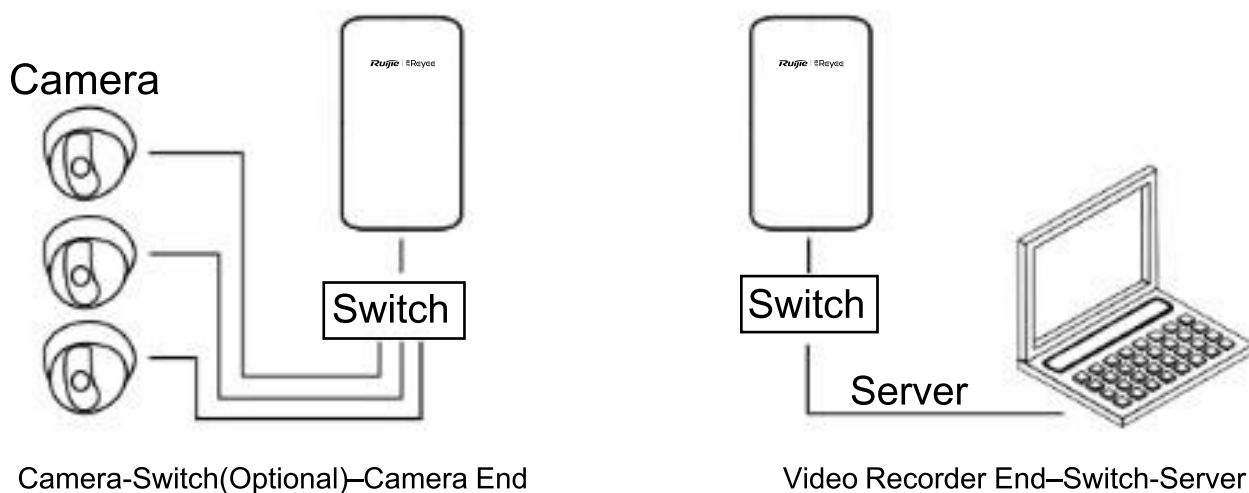
The device and software will be upgraded constantly. Please contact Ruijie technical support for details.

Parts List

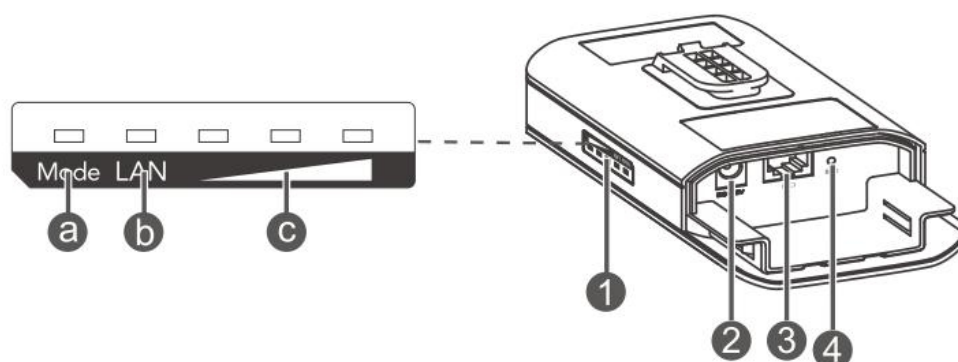
Management software WSP-EST310 V2 has been installed on the device.

Part Description	Qty
RG-EST310 V2 Camera End	1
RG-EST310 V2 Video Recorder End	1
24V/0.5A PoE Power Adapters	2
Anchors	4
Mounting Brackets	2
Self-Tapping Screws (ST4.2×19)	4
Pole Clamps	4
Warranty card	1
Quick Start Guide	1
Power Cable	2

Networking



LED & Ports



1. LED Description

a. System LED

Blinking Green: The device is being booted.

Solid Green: The device is working properly.

b. LAN LED

Off: No cable is connected.

Blinking Green: Link is up. The port is sending or receiving data.

Solid Green: Link is up. The port is not sending or receiving data.

c. Signal LED

Off: No signal is detected.

Blinking: The signal is weak.

Solid: The stronger the signal gets, the more LEDs light up.

2. 12V DC Power Port

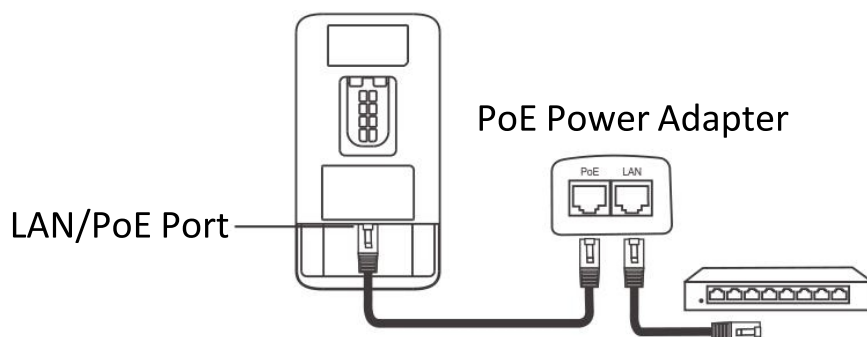
Inner Diameter: 2.1mm. Outer Diameter: 5.5mm.

3. LAN/PoE Port

4. Reset Button

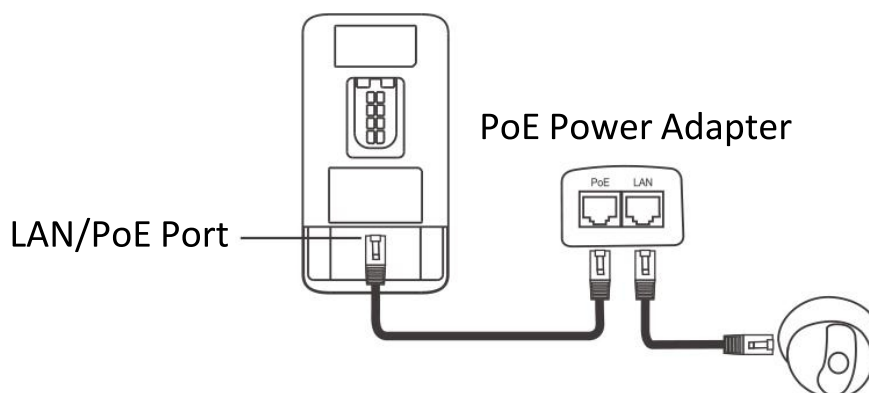
Cable Connection

Video Recorder End



PoE Max Distance: 100m (CAT5/6/7 Cable)

Camera End



PoE Max Distance: 100m (CAT5/6/7 Cable)

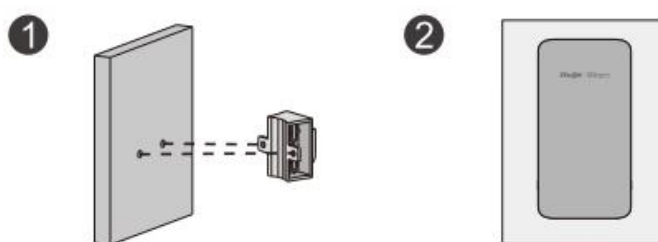
Mounting the Device

Pole Mounting



1. Secure the mounting bracket to the pole by threading two clamps through the mounting bracket.
2. Install the device to the mounting bracket.

Wall Mounting



1. Secure the mounting bracket on the wall.
2. Install the device to the mounting bracket.

Bridging Management

The wireless bridges are used in pairs without extra configuration. If you want to manage the bridge or view data, both App management and Web management are available.

App Management (Recommended)

1. Scan the QR code on the manual or device to download Ruijie Cloud App.

2. Sign up an account and log in with it.
3. Navigate to Project>+in the upper right corner > Wireless Bridge to manage the device.



Web Management

Wireless Login (Recommended)

1. Connect to the 5G SSID of the bridge (Default: @Ruijie-bxxxx. xxxx indicates the last four digits of the MAC address).
2. Open a browser window, enter http://192.168.120.1 into the address bar and press Enter.

Wired Login

1. Set the IP address on your computer.

IP Address: 10.44.77.100

Subnet Mask: 255.255.255.0

Gateway: 10.44.77.254

Figure 1-1

A screenshot of a network configuration window titled 'General'. It contains instructions about automatic IP assignment and manual configuration options. The 'Use the following IP address' section is selected, with fields for IP address (10.44.77.100), Subnet mask (255.255.255.0), and Default gateway (10.44.77.254). The 'Use the following DNS server addresses' section is also selected, with fields for Preferred DNS server and Alternative DNS server. There is a checkbox for 'Validate settings upon exit' and an 'Advanced...' button. At the bottom are 'OK' and 'Cancel' buttons.

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 10 . 44 . 77 . 100

Subnet mask: 255 . 255 . 255 . 0

Default gateway: 10 . 44 . 77 . 254

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server: . . .

Alternative DNS server: . . .

☐ Validate settings upon exit

Advanced...

OK Cancel

2. Open a browser window, enter http:// 10.44.77.254 into the address bar and press **Enter**.

One-to-Many Settings

Select Master Bridge

Select any video recorder end as the master bridge and power on the device.

Select Slave Bridge

Select any other device (either video recorder end or camera end) as the slave bridge and take the following steps to configure the slave bridge.

Configure Slave Bridge

1. Log into the Web management page.
2. Select **Pair Again** in the upper right corner.



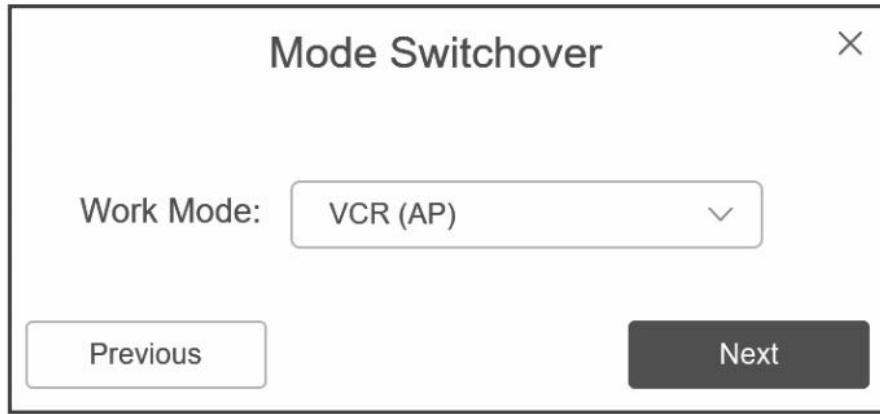
Figure 2-1

3. Click **Start**.



Figure 2-2

4. Select **Camera (CPE)** and click Next.



A dialog box titled "Mode Switchover" with a close button (X) in the top right corner. It contains a label "Work Mode:" followed by a dropdown menu showing "VCR (AP)". At the bottom, there are two buttons: "Previous" and "Next".

Figure 2-3

5. Click **Scan** and select an SSID from the dropdown list or enter an SSID (Example: @Ruijie-wds-xxxx. xxxx indicates the last four digits of the MAC address).



A dialog box titled "WDS SSID" with a close button (X) in the top right corner. It contains the text "Scan and select WDS SSID or enter WDS SSID." Below this, there is a label "* WDS SSID:" followed by a text input field containing "WDS SSID" and a "Scan" button. At the bottom, there are two buttons: "Previous" and "Next".

Figure 2-4

7. Click **Submit**.

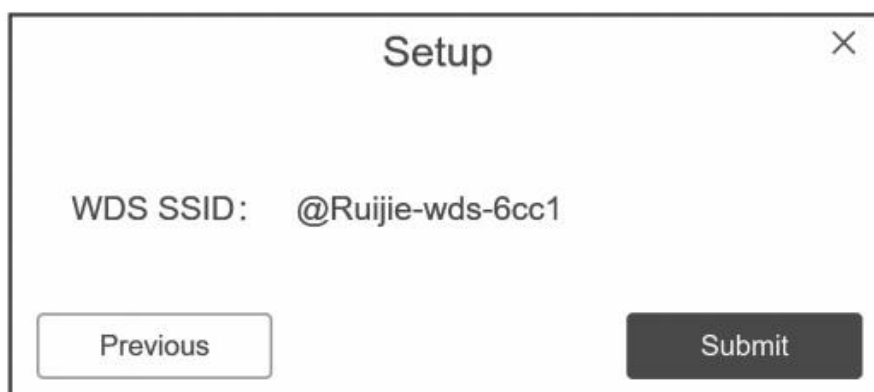


Figure 2-5

8. The **Mode** LED on the video recorder end is solid on and the **Mode** LED on the camera end blinks at 0.5 Hz.
9. If you want to add camera ends, please take the above steps again.

Notes

1. Please make sure that there are no obstacles between both ends.
2. If there are obstacles, please make sure that the devices are installed 3 to 5 meters higher than the obstacles.
3. If the obstacles cannot be avoided, it is recommended to adopt the repeater solution to implement Back-to-Back WDS.
4. For data transmission over a super-long distance, it is recommended to adopt the repeater solution to reduce distance between each pairing devices and improve stability.
5. If the monitoring devices and peer ends are concentrated at one location, it is recommended to select one-to-many solution to reduce cost and improve efficiency.
6. Please make sure that the distance between both ends are over 2 meters.
7. The **Mode** LED on the video recorder end is solid on and the **Mode** LED on the camera end blinks at 0.5 Hz.
8. The device may cause radio interference in living environment. Please take measures to reduce interference.

Note:

This equipment is restricted to indoor operation in 5.15-5.25GHz for Hong Kong.

用戶指南

提示

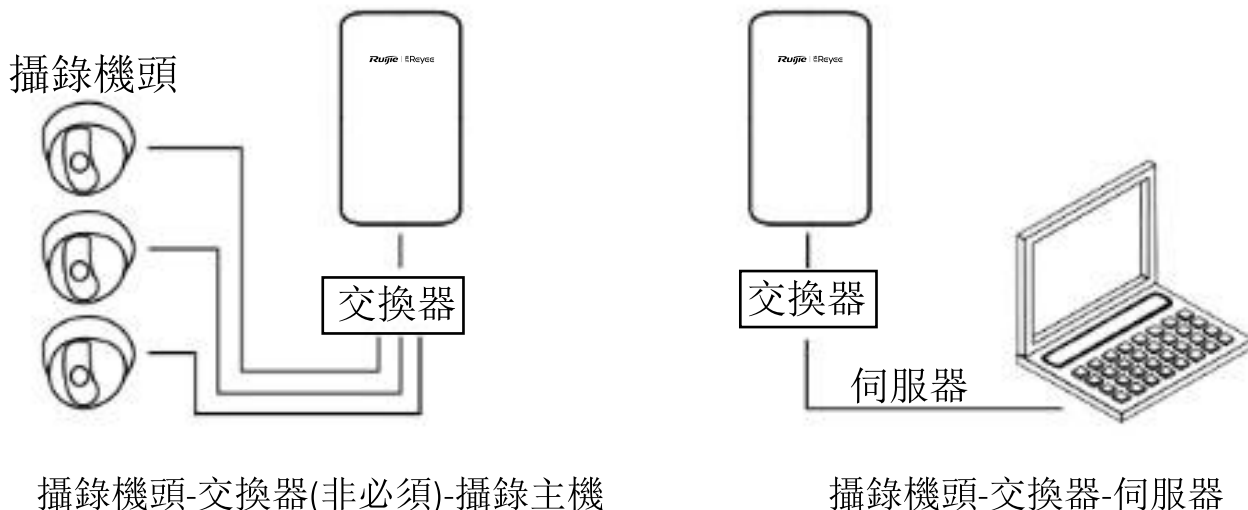
由於裝置及軟件持續升級優化，本手冊中的部分內容可能未能及時更新，如內容與實際產品不相乎，敬請見諒。詳細使用說明可向本公司的服務熱線索取。

包裝配件

WSP-EST310 V2 裝置已預先安裝銳捷無線產品管理軟件

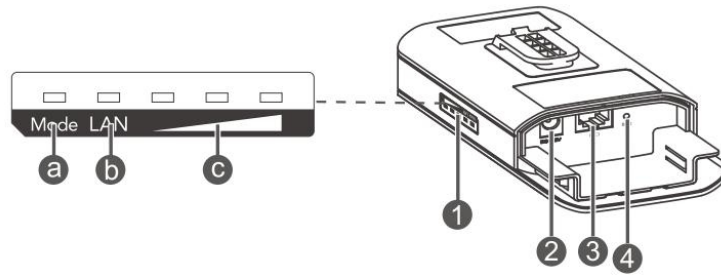
名稱	數量
RG-EST310 V2攝錄機頭	1
RG-EST310 V2攝錄主機	1
24V/0.5A PoE電源變壓器	2
螺絲釘固定座	4
掛架	2
圓頭自攻十字螺絲釘(ST4.2X19)	4
索帶	4
保固手冊	1
用戶指南	1
電源線	2

確認組網方法



插槽介紹

產品插槽



注釋：

1、運作指示燈

a.系統燈

閃動黃綠色燈-裝置正在啟動

亮起黃綠色燈-裝置連接完成，正常運作

B.網絡插槽燈

熄滅-未連接網絡

閃動黃綠色燈-已連接網絡，且有數據傳輸

亮起黃綠色燈-已連接網絡，但無數據傳輸

c.信號燈

熄滅：未連接

閃動：已連接但信號微弱

燈亮起-亮起的燈越多代表信號越強

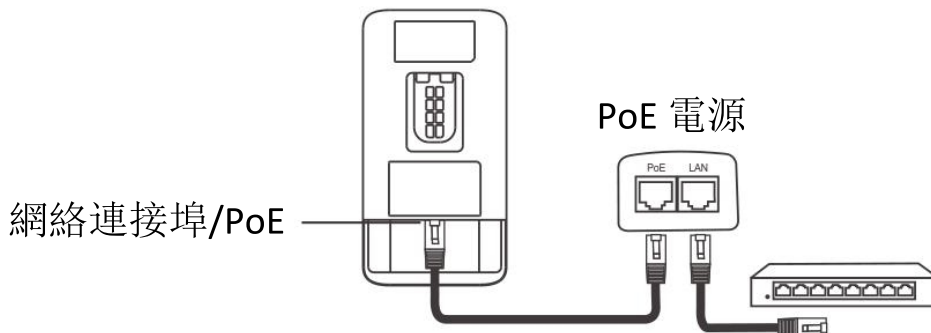
2、DC 12V 連接埠可以使用電源變壓器直接供電，變壓器連接埠內部直徑為 2.1 mm，外部直徑為 5.5mm

3、網絡連接埠/電源 PoE 插槽

4、重設鍵

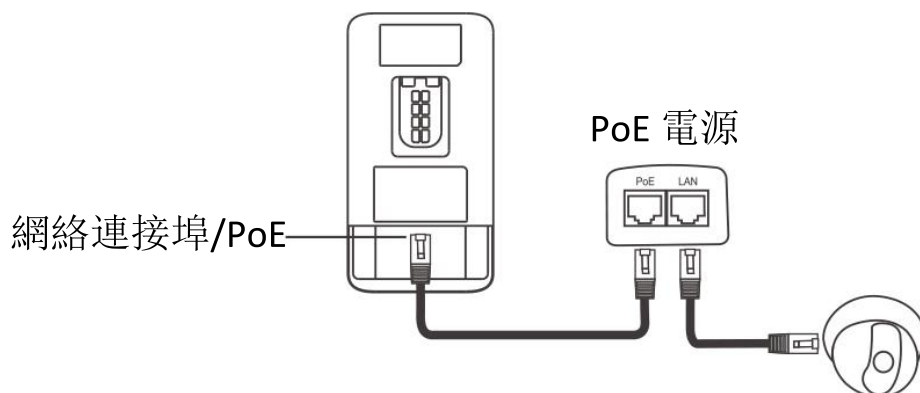
插槽

攝錄主機：



PoE 供電的距離上限為 100 米(需要使用 CAT5/6/7 或以上規格的網絡電線)

攝錄機頭：



PoE 供電的距離上限為 100 米(需要使用 CAT5/6/7 或以上規格的網絡電線)

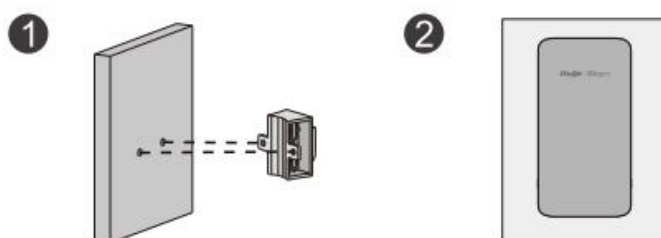
產品安裝

索帶安裝：



1. 先用索帶將掛架固定
2. 將裝置固定在掛架上

掛牆安裝：



1. 先將掛架固定在牆面
2. 將裝置固定在掛架上

連接設定：

方法一（推薦方法）

產品出廠後即可使用，無需設定，如需管理和查閱信息，請掃描 QR 碼以下載 APP 進行管理。

管理流程如下：進入 Ruijie Cloud APP，選取「Project」—右上角的「+」—「Wireless Bridge」，然後掃描 QR 碼進行管理。



網路管理方法

無線登入

1. 鏈接到網橋上的 5G SSID（預設為@Ruijie-bxxxx，xxxx 代表 MAC 位址的後四位）
2. 使用瀏覽器訪問 <http://192.168.120.1>

有線登入

1. 使用網絡電線連接網絡連接埠，將電腦有線網絡卡
 - a. IP 地址設定為：10.44.77.100
 - b. 子網：255.255.255.0
 - c. 閘道：10.44.77.254

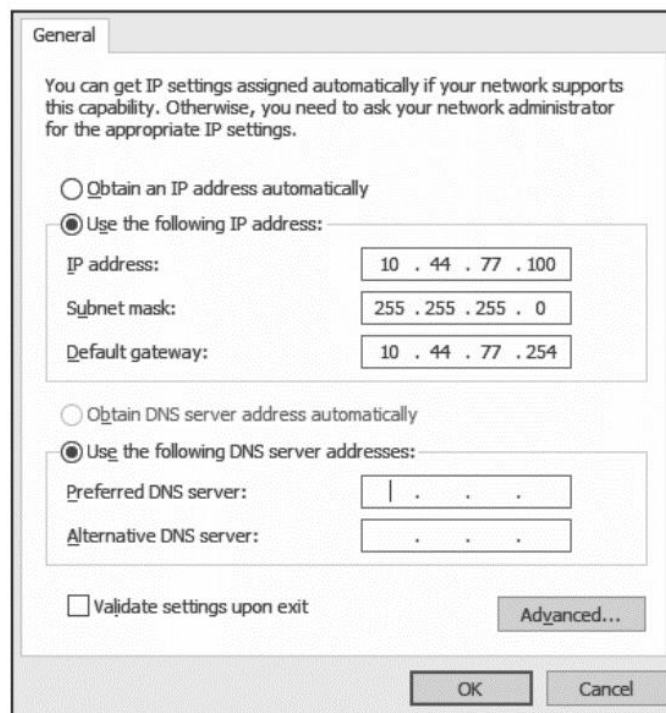


圖 1-1

2. 使用瀏覽器訪問 <http://10.44.77.254>

一對多設定

選擇主橋接器

選擇任何一部攝錄主機為主橋接器，並開啟該裝置。

選擇子橋接器

選擇任何一部其他裝置（攝像主機或攝錄機頭均可）為子橋接器，然後按照以下步驟設定子橋接器。

設定子橋接器

1. 登入網頁管理頁面。
2. 點擊右上角的 **Pair Again**。



圖 2-1

3. 點擊 **Start**。

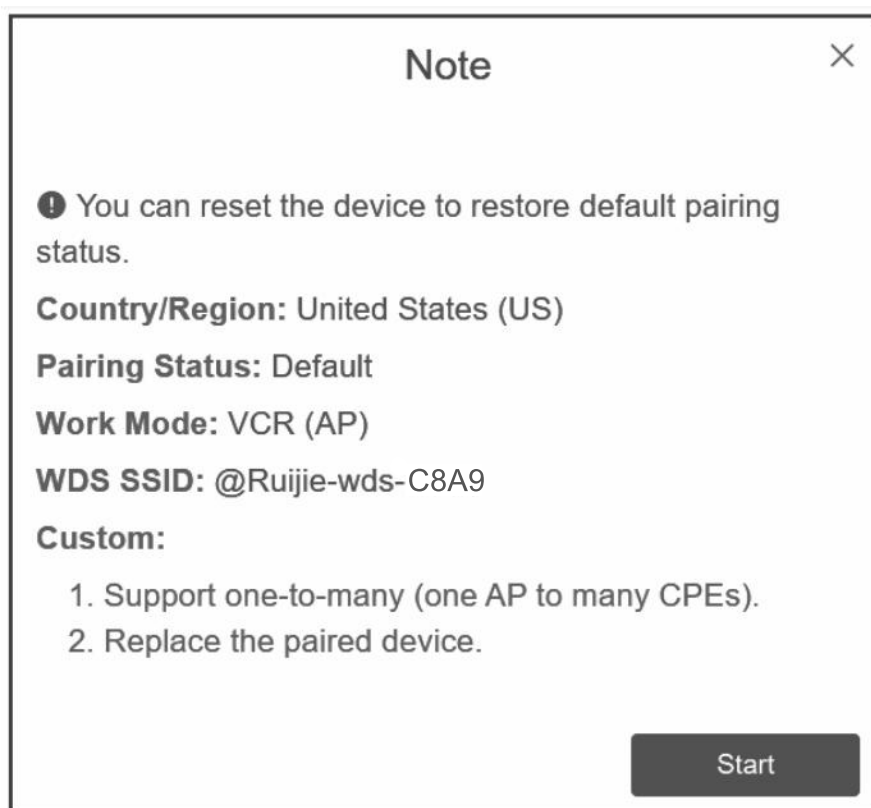
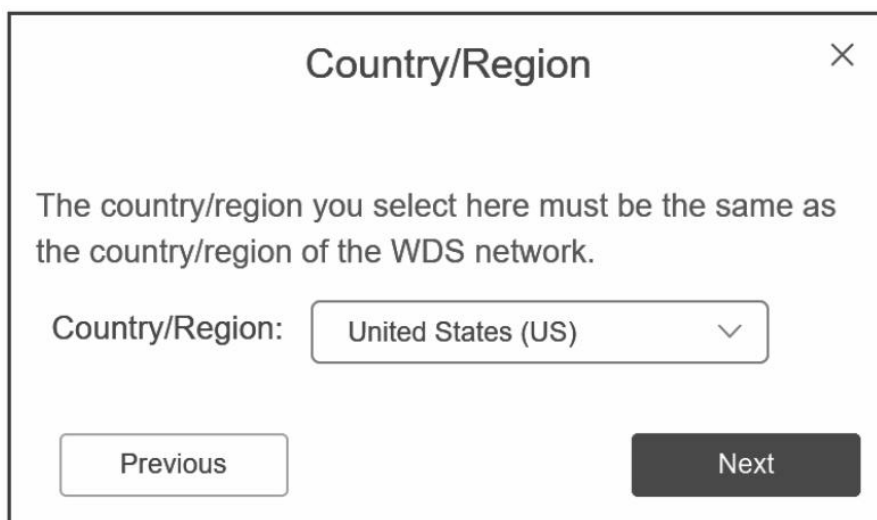


圖 2-2

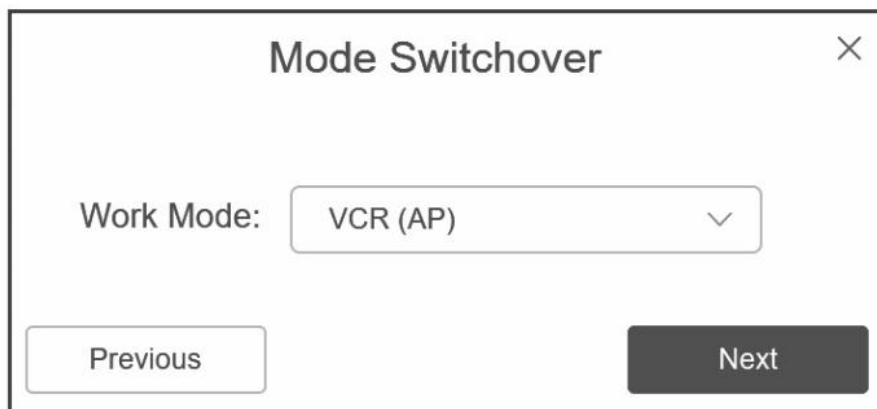
4. 從下拉式清單選取一個國家或地區，然後點擊 **Next**。



A dialog box titled "Country/Region" with a close button (X) in the top right corner. The text inside reads: "The country/region you select here must be the same as the country/region of the WDS network." Below this text is a label "Country/Region:" followed by a dropdown menu showing "United States (US)" with a downward arrow. At the bottom, there are two buttons: "Previous" on the left and "Next" on the right.

圖 2-3

5. 選擇 **Camera (CPE)**，然後點擊 **Next**。



A dialog box titled "Mode Switchover" with a close button (X) in the top right corner. The text inside reads: "Work Mode:" followed by a dropdown menu showing "VCR (AP)" with a downward arrow. At the bottom, there are two buttons: "Previous" on the left and "Next" on the right.

圖 2-4

6. 點擊 **Scan** 並從下拉式清單選擇 **SSID** 或輸入 **SSID**（例如：**@Ruijie-wds-xxxx**；xxxx 為 MAC 地址的最後四位數字）。



A dialog box titled "WDS SSID" with a close button (X) in the top right corner. The text inside reads: "Scan and select WDS SSID or enter WDS SSID." Below this text is a label "* WDS SSID:" followed by a text input field containing "WDS SSID" and a "Scan" button. At the bottom, there are two buttons: "Previous" on the left and "Next" on the right.

圖 2-5

7. 點擊 **Submit**。

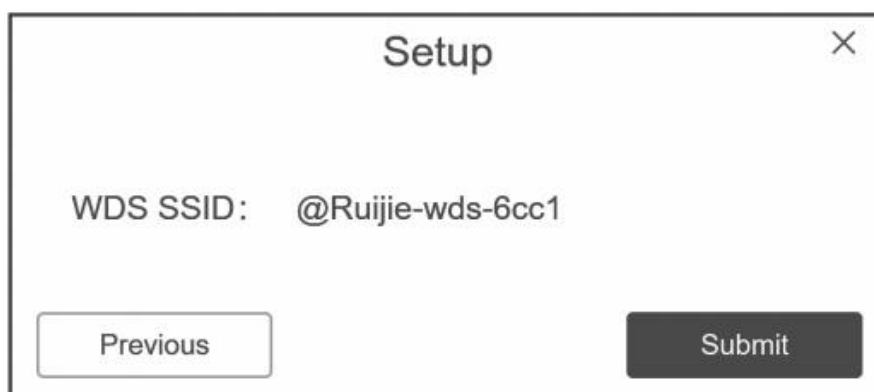


圖 2-6

8. 攝錄主機端上的 **Mode** 指示燈將亮起，而攝錄機頭端上的 **Mode** 指示燈將每隔一秒閃動一下。
9. 若要新增攝錄機頭，請再次執行以上步驟。

備註

1. 請確保兩端之間沒有障礙物。
2. 如兩端之間有障礙物，請確保裝置安裝於障礙物的 3 至 5 米之上。
3. 如無法避免兩端之間的障礙物，建議採用無線中繼方案，透過背靠背式 WDS 跨越障礙物。
4. 進行超遠距離數據傳輸時，同樣建議採用無線中繼方案以縮短每對配對裝置之間的傳輸距離，提高穩定性。
5. 若監控裝置和子端集中於同一個地方，可以選擇一對多方案以提高效率和降低成本。
6. 請確保兩端之間保持 2 米或以上距離。
7. 攝錄主機端上的 **Mode** 指示燈將亮起，而攝錄機頭端上的 **Mode** 指示燈將每隔一秒閃動一下。
8. 在住宅環境中，本裝置可能會造成無線電干擾，用戶可能需要採取相應措施以減少干擾。

Hướng dẫn sử dụng sản phẩm

Lưu ý

Thiết bị và phần mềm sẽ được nâng cấp liên tục. Vui lòng liên hệ với bộ phận hỗ trợ kỹ thuật của Ruijie để biết thêm chi tiết.

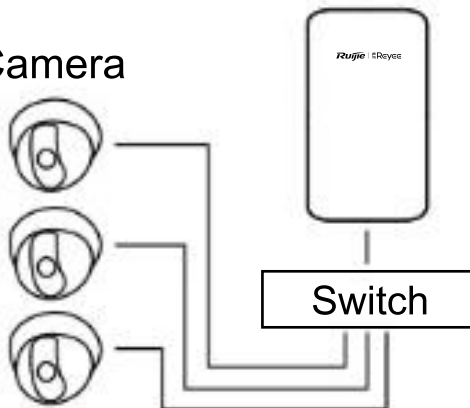
Danh sách thiết bị và phụ kiện

Danh sách thiết bị và phụ kiện

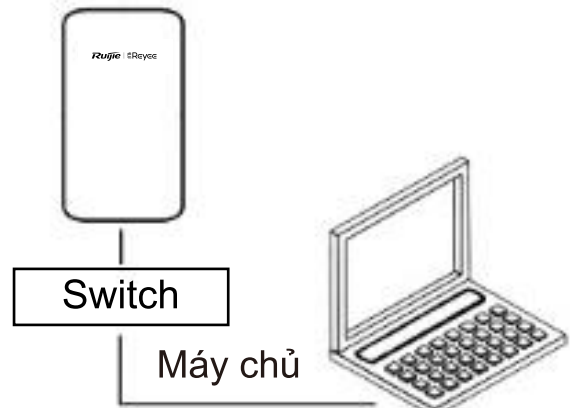
Mô tả bộ phận	Số lượng
RG-EST310 V2 kết nối camera	1
RG-EST310 V2 kết nối đầu ghi	1
Bộ chuyển đổi nguồn 24V/0.5A PoE	2
Nở nhựa	4
Giá gắn	2
Vít tự ren (ST4.2 × 19)	4
Vòng kẹp cột	4
Thẻ bảo hành	1
Hướng dẫn bắt đầu nhanh	1
Thẻ bảo hành	2

Kết nối mạng

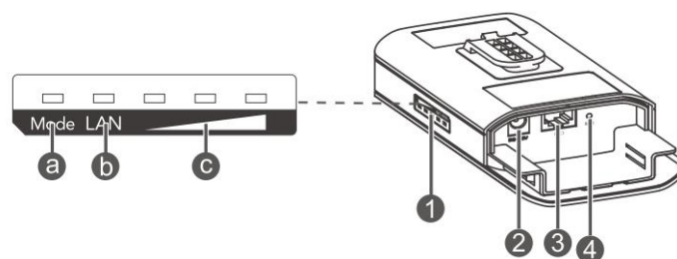
Camera



Camera-Switch (Tùy chọn)—Bộ kết nối camera



Bộ kết nối đầu ghi —Switch -Máy chủ



1. Mô tả đèn LED

a. Đèn LED hệ thống

Xanh lá nhấp nháy: Thiết bị đang được động.

Xanh lá liên tục: Thiết bị đang hoạt động bình thường.

b. Đèn LED mạng LAN

Tắt: Chưa nối cáp.

Xanh lá nhấp nháy: Liên kết thành công. Cổng đang gửi hoặc nhận dữ liệu.

Xanh lá liên tục: Liên kết thành công. Cổng đang không gửi hoặc nhận dữ liệu.

c. Đèn LED tín hiệu

Tắt: Chưa phát hiện tín hiệu.

Nhấp nháy: Tín hiệu yếu.

Sáng liên tục: Tín hiệu càng mạnh thì đèn LED càng sáng.

2. Cổng nguồn DC 12V

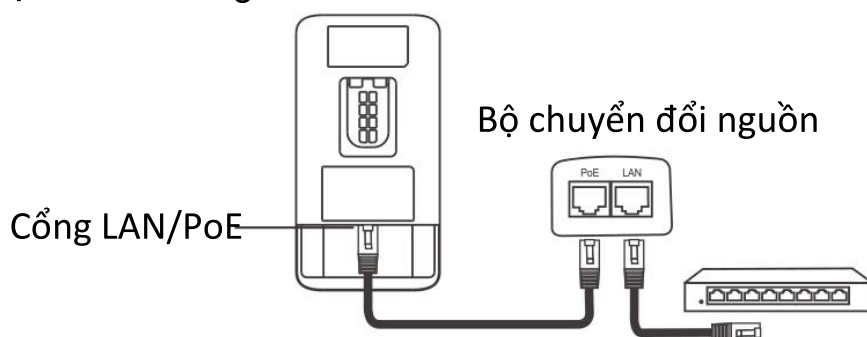
Đường kính trong: 2,1 mm. Đường kính ngoài: 5,5mm.

3. Cổng LAN/PoE

4. Nút Reset (Đặt lại)

Nối cáp

Bộ kết nối đầu ghi



Khoảng cách PoE tối đa: 100 m (cáp CAT 5/6/7)