

RG-EST100-E

Generic RG-EST100-E Wireless Bridge User Manual

Model: RG-EST100-E

1. INTRODUCTION

The Generic RG-EST100-E Wireless Bridge is engineered for robust and reliable real-time data transmission in outdoor and remote surveillance environments. This manual provides essential information for the proper installation, operation, and maintenance of your device.

Key features include:

- Real-Time Data Transmission up to 500 meters.
- Factory-Free Configuration, eliminating complex alignment requirements.
- IP55 Weatherproof rating and an operating temperature range of -30°C to 60°C for stable performance in harsh outdoor conditions.
- Support for up to 10 x 3MP Cameras at 100m and 5 x 3MP Cameras at 500m.
- Intuitive Remote Monitoring and easy maintenance through Ruijie Cloud.
- Ideal for outdoor and elevator environments.



Figure 1: Generic RG-EST100-E Wireless Bridge. This image displays the front view of the wireless bridge, highlighting its compact design and indicator lights.

2. WHAT'S IN THE BOX

Upon unpacking, please verify that all items are present and in good condition. The package should contain:

- 1 x RG-EST100-E Wireless Bridge

Note: Additional accessories such as power adapters or mounting kits may be sold separately or included depending on the specific product bundle. Please refer to your purchase documentation for details.

3. SETUP INSTRUCTIONS

The RG-EST100-E Wireless Bridge is designed for easy, factory-free configuration. Follow these steps for initial setup:

1. **Mounting:** Securely mount the wireless bridge in the desired outdoor or elevator environment. Ensure a clear line of sight between paired bridges for optimal performance. The IP55 rating ensures durability in various weather conditions.
2. **Power Connection:** Connect the Power over Ethernet (PoE) cable to the designated PoE port on the device. Ensure the PoE injector or switch provides adequate power.
3. **Network Connection:** Connect the LAN port of the wireless bridge to your network device (e.g., IP

camera, NVR, or network switch) using an Ethernet cable.

- Pairing (if applicable):** For point-to-point or point-to-multipoint setups, ensure the devices are powered on. The RG-EST100-E typically features automatic pairing or a simplified configuration process. Refer to the Ruijie Cloud platform for detailed pairing instructions if manual intervention is required.
- Verification:** Observe the LED indicators on the device. A stable green light typically indicates a successful power-on and network connection. Refer to the "LED Indicators" section for detailed status meanings.

For advanced configurations or specific network requirements, consult the Ruijie Cloud management platform or the manufacturer's online resources.

4. OPERATING INSTRUCTIONS

Once the RG-EST100-E Wireless Bridge is set up and powered, it operates automatically to establish and maintain a wireless link. Key operational aspects include:

4.1. LED Indicators

The device features several LED indicators to provide status information:

Indicator	Status	Description
SYS	Solid Green	Device is powered on and operating normally.
SYS	Flashing Green	Device is booting up or performing a firmware upgrade.
LAN1/PoE	Solid Green	LAN1 port is connected and active, receiving PoE power.
LAN1/PoE	Flashing Green	Data activity on LAN1 port.
LAN2	Solid Green	LAN2 port is connected and active.
LAN2	Flashing Green	Data activity on LAN2 port.

4.2. Remote Monitoring via Ruijie Cloud

The RG-EST100-E supports remote monitoring and management through the Ruijie Cloud platform. This allows users to:

- View real-time device status and performance statistics.
- Configure network settings and manage connected devices.
- Receive alerts and notifications regarding device health or network issues.
- Perform firmware updates remotely.

Access the Ruijie Cloud platform via its official website or mobile application. Registration and device addition may be required.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your RG-EST100-E Wireless Bridge.

- **Physical Inspection:** Periodically inspect the device and its cables for any signs of damage, wear, or corrosion, especially in outdoor installations. Ensure all connections are secure.

- **Cleaning:** Gently clean the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or aerosols directly on the device. Ensure vents are clear of obstructions.
- **Firmware Updates:** Regularly check for and apply firmware updates through the Ruijie Cloud platform. Updates often include performance enhancements, security patches, and new features.
- **Environmental Conditions:** While the device is IP55 weatherproof and designed for extreme temperatures, ensure it is not exposed to conditions beyond its specified operating range (-30°C to 60°C).

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your RG-EST100-E Wireless Bridge.

Problem	Possible Cause	Solution
No Power (SYS LED Off)	No power supply or faulty cable.	<ul style="list-style-type: none"> ◦ Check the PoE connection and power source. ◦ Ensure the Ethernet cable is securely connected to the PoE port. ◦ Verify the PoE injector/switch is functioning correctly.
No Network Connection (LAN LEDs Off)	Ethernet cable issue or network device problem.	<ul style="list-style-type: none"> ◦ Ensure Ethernet cables are properly connected to both the bridge and the network device. ◦ Test with a different Ethernet cable. ◦ Verify the connected network device (e.g., camera, NVR) is powered on and functioning.
Poor Wireless Performance / Disconnections	Obstructions, interference, or misaligned bridges.	<ul style="list-style-type: none"> ◦ Ensure a clear line of sight between paired wireless bridges. ◦ Check for potential sources of interference (e.g., large metal objects, other wireless devices). ◦ Verify bridge alignment. ◦ Log into Ruijie Cloud for signal strength monitoring and optimization.
Cannot Access Ruijie Cloud	Network connectivity issue or incorrect credentials.	<ul style="list-style-type: none"> ◦ Ensure your device has internet access. ◦ Verify your Ruijie Cloud login credentials. ◦ Check if the wireless bridge is properly connected to the internet and registered with your Ruijie Cloud account.

If the issue persists after attempting these solutions, please contact technical support.

7. SPECIFICATIONS

Feature	Detail
Model	RG-EST100-E
Brand	Generic (Manufacturer: Reyee)
Transmission Distance	Up to 500 meters
Camera Support	10 x 3MP cameras at 100m, 5 x 3MP cameras at 500m
Weatherproof Rating	IP55
Operating Temperature	-30°C to 60°C (-22°F to 140°F)
Configuration	Factory-Free, no complex alignment
Management	Ruijie Cloud (Remote Monitoring)
ASIN	B0DY1SB46F
Date First Available	February 21, 2025

8. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official website of the manufacturer, Reyee. Warranty terms and conditions may vary by region and retailer.

For technical support, troubleshooting assistance beyond this manual, or inquiries about product services, please contact the manufacturer's customer support team. Contact details can typically be found on the manufacturer's website or in your product packaging.

Online resources, including FAQs, additional documentation, and software downloads, may also be available on the Ruijie Cloud platform or Reyee's official support pages.