

4PortGo

Portable Multicoupler for HCR-300 Receivers

User Manual

Thank you for choosing the Relacart 4PortGo camera wireless receiver integrated management system. This manual provides detailed information on operation, panel interfaces, technical specifications, troubleshooting, safety precautions, and maintenance. Please read this manual carefully before use and retain it for future reference.

Overview

4PortGo is an integrated management system designed to accommodate up to four camera wireless receivers. It features a high-performance antenna multicoupler that simultaneously distributes RF signals to four camera wireless receivers. With an ultra-wide frequency range of 470–960 MHz, it supports the simultaneous use of receivers operating in multiple frequency bands. The system supports power from either an external DC power source or NP-F series batteries, with microprocessor-controlled automatic power switching. Featuring a precision-machined aluminum-alloy chassis, 4PortGo is suitable for a wide range of mobile applications, including portable mixer bags and sound carts.

Key Features

- Modular configuration accommodates up to four HCR-30D receivers or compatible camera wireless receivers of the same form factor.
- High-performance antenna multicoupler provides isolated RF outputs.
- Switchable antenna power supports remote coaxial RF amplifiers.
- Supports power from an external DC power source or NP-F series batteries.
- Microprocessor-controlled intelligent power management enables automatic power switching based on power-source status.
- The precision-machined aluminum-alloy chassis provides excellent shock resistance, dust protection, and heat dissipation, making the unit suitable for mobile applications such as sound carts and portable equipment bags.

Packing List

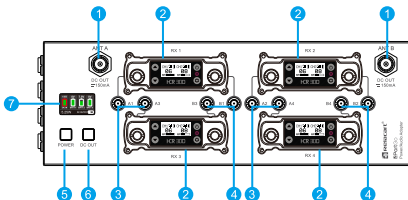
After unpacking, ensure that the following items are included. If anything is missing, please contact the Relacart dealer from whom you purchased the product.

- ◆ 4PortGo
- ◆ BNC Antennas x2
- ◆ SMA Coaxial Cables (8 cm) x8
- ◆ 4-Pin Mini XLR Female Connector
- ◆ User Manual

Note: The battery compartments support NP-F series lithium-ion battery packs only. The battery pack is not included and must be purchased separately.

Component Name

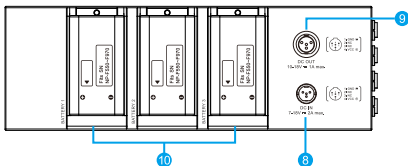
Front Panel



- 1 ANT A / ANT B Input Connectors:** Antenna input connectors for direct connection to antennas. The center contacts provide 150 mA DC power for use with active antenna systems or antenna amplifiers.
- 2 RX1–RX4 Receiver Slots:** Accommodate HCR-30D receivers manufactured by Relacart and third-party camera wireless receivers of the same form factor. Each slot is equipped with an internal DP-25P female connector.
- 3 A1–A4 RF Output Connectors:** RF output connectors corresponding to the A antenna inputs of RX1–RX4, respectively. Use the supplied SMA coaxial cables to connect each output to the corresponding receiver for low-loss RF signal transmission.

- 4 **B1–B4 RF Output Connectors:** RF output connectors corresponding to the B antenna inputs of RX1–RX4, respectively. Use the supplied SMA coaxial cables to connect each output to the corresponding receiver for low-loss RF signal transmission.
- 5 **POWER Button:** When power is connected, press and hold for 3 seconds to turn the unit on or off.
- 6 **DC OUT Button:** When the unit is powered on, press and hold for 5 seconds to enable or disable DC output. The button indicator lights orange when DC output is enabled and turns off when DC output is disabled.
- 7 **DISPLAY:** Displays the unit's operating status in real time, including DC IN voltage, the voltage and battery level of all three battery packs, total power consumption of the unit, and DC OUT status.

Rear Panel

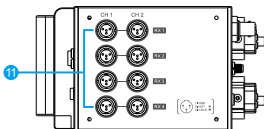


- 8 **DC IN Connector:** Main Power Input. Supports an external DC 7–18 V / 2 A power supply to provide stable operating power for the unit and connected equipment.

- 9 **DC OUT Connector:** Provides a fixed auxiliary power output of DC 10–18 V / 1 A for powering compatible compact audio equipment.
- 10 **BATTERY Compartments:** Three battery compartments accommodate lithium-ion battery packs and provide automatic backup power in the event of an external power interruption. Observe the polarity markings shown in the illustration when installing the batteries.

Compatible Battery Types: NP-F series battery packs, NP-F550 to NP-F970. Battery packs are used sequentially in the order of Battery 1, Battery 2, and Battery 3. When the voltage of the active battery pack drops below 6.5 V, the system automatically switches to the next available backup battery without interrupting operation. When all connected battery packs are depleted, the unit shuts down automatically. When an external DC power source is connected to the DC IN connector, the unit automatically disconnects all battery packs from the power circuit.

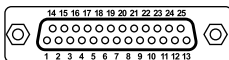
Side Panel



- 11 **RX1–RX4 Audio Output Connectors:** Four independent CH1/CH2 balanced analog audio outputs, corresponding to the audio signals from the four wireless receivers. Connect directly to a mixer, recorder, or other audio equipment.

DP-25P Pinout

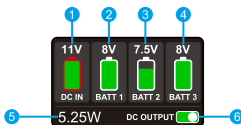
The receiver slot is equipped with a standard 25-pin female connector. The pin assignments are as follows:



Pin	Definition	Pin	Definition	Pin	Definition	Pin	Definition	Pin	Definition
1	GND	6	RX ON	11	NC	16	CH2 AUDIO OUT - (COLD)	21	NC
2	CH1 AUDIO OUT + (HOT)	7	NC	12	NC	17	NC	22	NC
3	CH1 AUDIO OUT - (COLD)	8	NC	13	NC	18	NC	23	NC
4	GND	9	NC	14	GND	19	NC	24	NC
5	DC OUT	10	NC	15	CH2 AUDIO OUT + (HOT)	20	NC	25	NC

Display and Battery Status

The battery indicators on the main screen correspond to the battery compartments numbered 1 through 3 from left to right.



- ❶ DC IN Status: Displays the current external DC input voltage and power status.
- ❷ BATT 1 Status: Displays the real-time voltage and battery level of the lithium-ion battery pack installed in BATTERY 1.
- ❸ BATT 2 Status: Displays the real-time voltage and battery level of the lithium-ion battery pack installed in BATTERY 2.
- ❹ BATT 3 Status: Displays the real-time voltage and battery level of the lithium-ion battery pack installed in BATTERY 3.
- ❺ Real-Time Power Consumption: Displays the unit's total power consumption in real time. The reading updates dynamically as the load changes, helping estimate the remaining battery runtime.
- ❻ DC OUT Switch Status: When the toggle switch is illuminated green, DC output is enabled and power is supplied to connected audio equipment. When the toggle switch is unlit, DC output is disabled and no output voltage is provided.

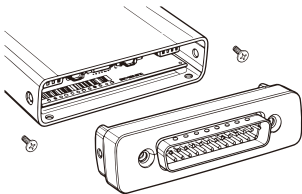
Battery Status Indicators:

- Red Border + Green Battery Level: Indicates the active power source currently supplying power to the unit, either the external DC power source or an NP-F series battery pack.
- White Border + Green Battery Level: Indicates a charged backup battery pack. Battery packs are used sequentially, with the battery pack currently supplying power indicated by a red border.
- Gray Battery Icon: Indicates that the battery bay is empty or the battery is improperly installed.
- Low Battery: A significantly reduced green fill level indicates a low battery condition and the need to replace the battery promptly.
- Input voltage is monitored in real time. An alert is displayed when an abnormal voltage condition is detected.

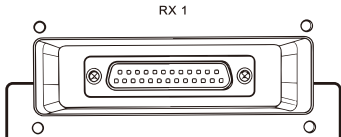
Installation and Operation

Install Receiver

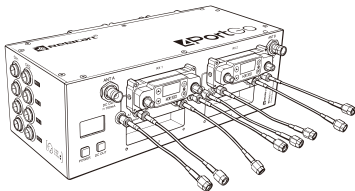
1. First, install the Panasonic rear panel adapter.



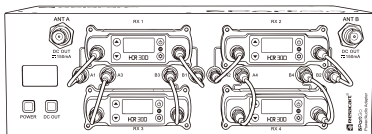
2. The mating 25-pin connector inside each slot on the 4PortGo provides power and audio connections.



3. Insert the receiver into the slot, aligning it with the internal guide rails and DP-25P connector. Then push it in until it is securely seated. The receiver's front panel flange should be flush with the 4PortGo front panel. Secure the receiver to the panel using the mounting screws.



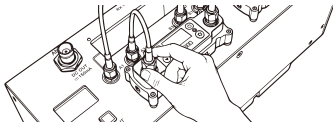
4. Connect the RF coaxial cables as shown in the illustration below, following the specified A/B routing pattern. Route the cables neatly to avoid excessive bending or pulling. Each receiver slot on the front panel is clearly labeled, with A on the left and B on the right, corresponding to the antenna input connectors on the receiver.



5. Ensure that all connectors are securely connected with no loose or intermittent connections to prevent signal interference.

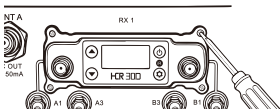
Remove Receiver

1. Normally the hex nuts on the RF coaxial cables can be tightened and removed by hand. If a nut cannot be removed by hand, use the appropriate tool.

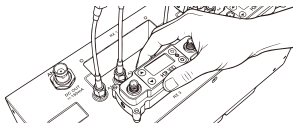


* Do not overtighten the nuts with a wrench.

2. Loosen and remove all four mounting screws securing each receiver to the 4PortGo front panel.

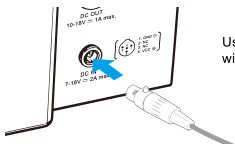


3. Carefully slide the receiver out of the slot. Do not pull on the cables to remove the receiver, as this may damage the cables or connectors.



Power-On and Power Supply Operation

1. Connect a DC 7-18V/2A power supply. By default, the unit prioritizes the external DC power source.

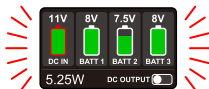


Use a power adapter that complies with local regulatory requirements.

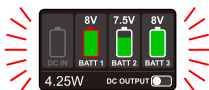
* Mini-XLR power adapter is not included

2. Press and hold the POWER button for 3 seconds to turn on the unit. The indicator lights orange, the display turns on, and the screen shows the input voltage, battery status, total power consumption of the unit, and other parameters in real time.

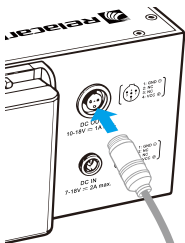
Long press for 3 seconds



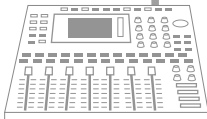
3. When the external power supply is disconnected, the unit automatically detects the interruption and switches to the next available NP-F series battery packs according to the battery priority sequence. No manual intervention is required, ensuring uninterrupted operation.



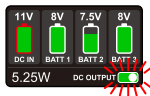
4. To power an external compact device, connect the 4PortGo to the recording equipment, then press and hold the DC OUT button for 5 seconds to enable DC output. The indicator lights orange, and the DC OUT switch on the display indicates that output is enabled. Disable DC output promptly when the external device is no longer in use to reduce overall power consumption.



Recording
equipment, etc.



Long press for 3 seconds



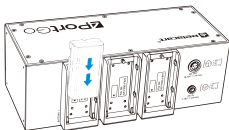
* Mini-XLR power adapter
is not included

Install/Remove Batteries

The batteries can be installed or removed while the unit is either powered on or off. All three battery compartment support NP-F series camera lithium-ion battery packs and automatically switch between available battery packs according to the power priority sequence.

Install Battery

1. With the metal battery contacts facing downward, insert the NP-F series battery pack into any available battery compartment, aligning it with the vertical guide rails on both sides of the compartment.

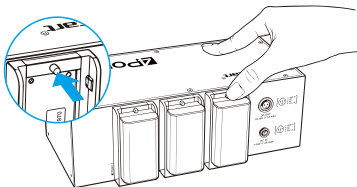


2. Slide the battery straight down along the guide rails and press it firmly into place. When the locking mechanism clicks into position, the battery is fully seated and the contacts are securely engaged.

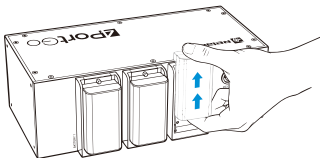


Remove Battery

1. Each battery compartment is equipped with a push-release latch button at the top. Press and hold the round latch button to retract the latch and release the battery.



2. While holding the latch button, grip the top of the battery and pull it straight upward along the guide rails to remove it from the compartment. The latch automatically returns to its original position.



3. If the unit will be stored or left unused for an extended period, remove all battery packs and store them separately to help prevent battery discharge and oxidation of the battery contacts.

Specifications

Frequency Range:	470 MHz to 960 MHz
Distribution Gain:	0 dB, ± 3 dB (typical)
Antenna Power:	Displays the system's current operating voltage. Max. current: 150 mA (center-positive)
Maximum power:	24 W
DC Power Input:	DC 7–18 V / 2 A
DC Power Output:	DC 10–18 V / 1 A
Battery Type:	NP-F Series batteries: NP-F550 to NP-F970, nominal Voltage: 7.4 V
Device Capacity:	Up to four portable plug-in receivers
Operating Temperature:	-10°C to +55°C, 95% RH
Storage Temperature:	-20°C to +65°C, 95% RH
Dimensions:	240 x 140 x 90 mm (W x D x H)
Net Weight:	1.5 kg

Troubleshooting

Problem	Possible Cause	Solution
No power / Display does not turn on	POWER button not pressed	Press and hold the POWER button for 3 seconds to turn on the device
	External power supply disconnected or insufficient voltage	Check that the external power adapter complies with the specified requirements.
	All three batteries are depleted	Replace with fully charged NP-F series batteries
	Loose power connector	Reconnect and secure the power connector
Weak receiver signal / Frequent disconnections	Antenna not connected or connector loose	Reconnect and secure the BNC antenna connector
	Active antenna power is not enabled	Enable antenna power
	The antenna frequency band does not match that of the receiver	Replace the antenna with one that matches the receiver's frequency band
	The coaxial cable is too long, resulting in excessive signal loss	Replace the cable with a shorter, low-loss coaxial cable, or use an active amplifier
No signal input to an individual receiver	Loose connection at the SMA RF cable	Reconnect and secure the RF cable
	Poor contact at the receiver slot pins	Remove and reinstall the receiver
	Receiver channel failure	Replace the receiver and perform a cross-test to identify the source of the fault

Problem	Possible Cause	Solution
No audio output from an individual receiver	Receiver not fully inserted or poor connector contact	Reseat the receiver and secure it firmly
	Audio output cable failure	Replace the audio cable
	Receiver channel malfunction	Swap the receiver with a known-good unit to isolate the source of the fault
Does not automatically switch to battery power	Battery depleted or damaged	Replace with a new NP-F series batteries
	Poor contact in the battery compartment	Clean the battery compartment contacts
	Power management circuit malfunction	Contact the authorized service center for circuit inspection and repair
No DC OUT power	Output switch not enabled	Press and hold the DC OUT button for 5 seconds to enable DC output
	External load overload protection has been triggered	Disconnect the external load and restart the unit
	Poor contact at the DC OUT connector or cable	Check the output connector and cable

Note: If the unit malfunctions, first refer to the troubleshooting table above. Simple issues can often be resolved by the user. For complex hardware faults, contact your local distributor or authorized service center for inspection and repair. Do not attempt to disassemble or modify the device yourself.

Precautions

1. Read these safety instructions carefully before installing and operating the equipment.
2. Heed all warnings.
3. Follow all instructions.
4. Please clean it with a dry soft cloth.
5. Do not install near any heat sources such as open flames, radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not place any open flame sources on the product.
6. If the power cord is frayed or damaged, there is a sudden loss of sound during use of the device or it emits unusual smells or smoke, turn off the device immediately.
7. Do not scratch, bend, twist, stretch or heat the power cord as this may cause damage to the power cord, resulting in a fire or electric shock.
8. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
9. Do not expose the apparatus to dripping and splashing. Do not put objects filled with liquids, such as vases, on the apparatus.
10. Do not touch the power plug with wet hands, as this may result in electric shock.
11. Do not open the housing of this device. Doing so may result in electric shock. For servicing, maintenance, or repairs, contact your local distributor.
12. Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device.

13. Only use attachments/accessories specified by the manufacturer.
14. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



15. Water protection rating: IPX0.
16. This product is suitable for safe operation at altitudes of 2000 m or below.
17. Apparatus with class I construction shall be connected to a mains socket outlet with a protective earthing connection.
18. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
19. Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.
20. Operate this product within its specified operating temperature range.

Maintenance and Care

- This precision RF audio device should be used in a dry, dust-free environment away from strong electromagnetic interference.
- Regularly clean dust from the panels and connectors to prevent oxidation and poor electrical contact. If the device will be unused for an extended period, disconnect all power sources, remove the batteries, and store the device in a dry cabinet.
- Do not use chemical solvents, alcohol, or abrasive cleaners.
- Regularly inspect the gold-plated contacts of the connectors for signs of oxidation or dirt. If necessary, gently clean them with a specialized electronic contact cleaner.
- Do not disassemble the device or tamper with its internal circuitry. Always operate the device using a power supply that complies with its rated voltage and current requirements. Do not force cables into or out of the connectors or pry or apply excessive force to the connectors or housing, as this may cause hardware damage.
- Avoid prolonged operation in high-temperature, humid, rain-exposed, or high-vibration environments to prevent housing corrosion and short-circuit damage to the internal circuitry.
- When moving or transporting the device, provide adequate cushioning and protection. Avoid impact and crushing to prevent damage or misalignment of the connectors, display, and internal precision circuitry.

Support

If you experience any issues during operation or have any questions, please contact your authorized dealer for technical support.

Relacart Customer Service Center:
<https://www.relacart.com/contact-us/>

For authorized service, please contact your dealer. Any unauthorized disassembly or repair may void the warranty.

Certifications

Meets essential requirements of the following European Directives:

- WEEE Directive 2012/19/EU



Note: Please follow your regional recycling regulations for electronic waste.



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※ Technical specifications are subject to change without prior notice.

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