Radiolink RC8X

Radiolink RC8X 8-Channel 2.4G RC Transmitter Instruction Manual

Model: RC8X | Brand: Radiolink

INTRODUCTION

The Radiolink RC8X is an advanced 8-channel 2.4G RC transmitter designed for a wide range of remote-controlled vehicles including crawlers, drifting cars, trucks, bash cars, boats, and robots. It features a full-color 4.3-inch IPS touch screen, built-in telemetry, and gyro receivers for enhanced control and real-time feedback. With its long-range control capabilities and extensive model storage, the RC8X offers a versatile and immersive control experience.

Key Features:

- **Full-Color 4.3" IPS Touch Screen:** Intuitive interface for menu settings and FPV display.
- **1900 Feet Long Range Control:** Excellent anti-interference ability with FHSS algorithm.
- **Built-In Telemetry & Gyro Receiver:** Real-time vehicle data and gyro-assisted stability.
- **3ms Latency Response:** Fast servo response for precise control.
- **200 Models Storage:** Manage settings for up to 200 different RC models.

SETUP

1. Unboxing and Initial Inspection

Upon receiving your Radiolink RC8X, carefully unbox all components. The package includes the RC8X controller, R8FG and R4FGM receivers, a 2S 1700 mAh LiPo battery, a 32GB SD card, a Type-C data cable, a lanyard, spare throttle accessory, two screwdrivers, a quick start guide, and a carrying bag.

Image: Radiolink RC8X Transmitter and its accessories, including two receivers, a LiPo battery, SD card, cables, tools, and a carrying bag, neatly packed in a black case.

2. Battery Installation and Power On

The RC8X comes with a LiPo battery pre-installed. If you wish to use standard AA batteries, an optional battery tray is provided. To power on the transmitter, long-press the power button located on the front. The device will boot up and display the main interface.

Power Supply Options

2S-4S LiPo

14.5mm
52mm
92mm
*Package include 1700mAh 2S LiPo

AAA*8

Power Bank

*AAA batteries and power bank are sold separately

Image: A close-up of the Radiolink RC8X's battery compartment, showing a 2S 1700mAh LiPo battery and an alternative AAA battery tray, illustrating power supply options.

3. Binding Receivers

To establish communication between the transmitter and receiver, follow these steps:

1. Enter the Basic menu on the transmitter.
2. Navigate to "Receiver setting".
3. Select the corresponding protocol (FHSS V1 or FHSS V2) based on your receiver type. For R8FG, you can select either. For R7FG, R6FG, or other receivers, select "FHSS V1".
4. Place the transmitter and receiver close to each other (approximately 60 cm).
5. Turn on the receiver and press its bind button for more than 1 second, then release.
6. The signal tower icon on the transmitter screen will indicate successful binding.

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Video: A step-by-step guide on how to bind the Radiolink RC8X Transmitter to various receivers, including R8FG and R7FG, demonstrating menu navigation and the physical binding process.

4. FPV Setup

The RC8X can function as an FPV display. You will need an FPV camera and an FPV receiver. The FPV camera requires a working voltage of DC 3-5.2V (1S battery). Connect the FPV receiver module to the transmitter's headphone jack and USB port. Then, navigate to the System menu, select "External input output", and set "Multimedia Mode" to "Video input". If the pop-up window is set to "Open", the FPV feed will appear on the screen.

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Video: Instructions on how to set up First Person View (FPV) functionality on the Radiolink RC8X, detailing the connection of an FPV camera and receiver module, and configuring the transmitter's display settings.

OPERATING INSTRUCTIONS

1. Basic Controls and Menu Navigation

The RC8X features a 4.3-inch full-color touch screen for intuitive menu navigation. The main screen displays the status of all 8 channels, timers, and telemetry data. You can access various settings and customization options through the system menu, including language, theme, sound, battery, and more. The transmitter supports up to 200 model memories and external storage via an included 32GB SD card.

Image: The Radiolink RC8X transmitter displaying its 4.3-inch IPS touch screen, showing various menu options and settings for customization.

2. Mixing Control

The RC8X offers advanced mixing control capabilities, such as Dual ESC mixing for tracked vehicles. To set up mixing control:

1. From the main menu, select "Mixing setting".
2. Choose the desired mixing type (e.g., "Dual ESC mixing").
3. Turn on Mixing and assign ESC1 and ESC2 channels (e.g., CH1 and CH2).
4. After turning off mixing, remember to reset CH1 and CH2 as steering and throttle respectively in the "Channel setting" menu.

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Video: A demonstration of how to use mixing control on the Radiolink RC8X, specifically focusing on Dual ESC mixing for a tracked vehicle, showing menu navigation and control adjustments.

3. Cruise Control

To activate and adjust cruise control:

1. From the main menu, go to "Racing menu".
2. Select "Cruise control".
3. Adjust the throttle rate using the "+" and "-" buttons on the screen, or by turning the "DL1" tune button.
4. Assign the on/off switch to "PS1".
5. Press "PS1" to turn cruise control on or off.

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Video: A tutorial on how to set up and use cruise control on the Radiolink RC8X, demonstrating menu navigation, throttle rate adjustment, and activating the feature.

4. Handwheel Adjustment

The RC8X handwheel can be adjusted for left-handed or right-handed users. The factory default handwheel is on the right side. If you need to change it, you will need to disassemble part of the transmitter to move the handwheel assembly to the other side. Hexagonal screws are used, and a hexagonal screwdriver is included in the package.

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Video: A guide demonstrating how to change the handwheel position of the Radiolink RC8X transmitter from one side to the other, involving disassembly and reassembly of the steering mechanism.

5. Telemetry

The RC8X provides real-time telemetry information directly on its screen, such as vehicle battery voltage (up to 8S or 33.6V) and RSSI (Received Signal Strength Indicator). This allows for continuous monitoring of your vehicle's status during operation.

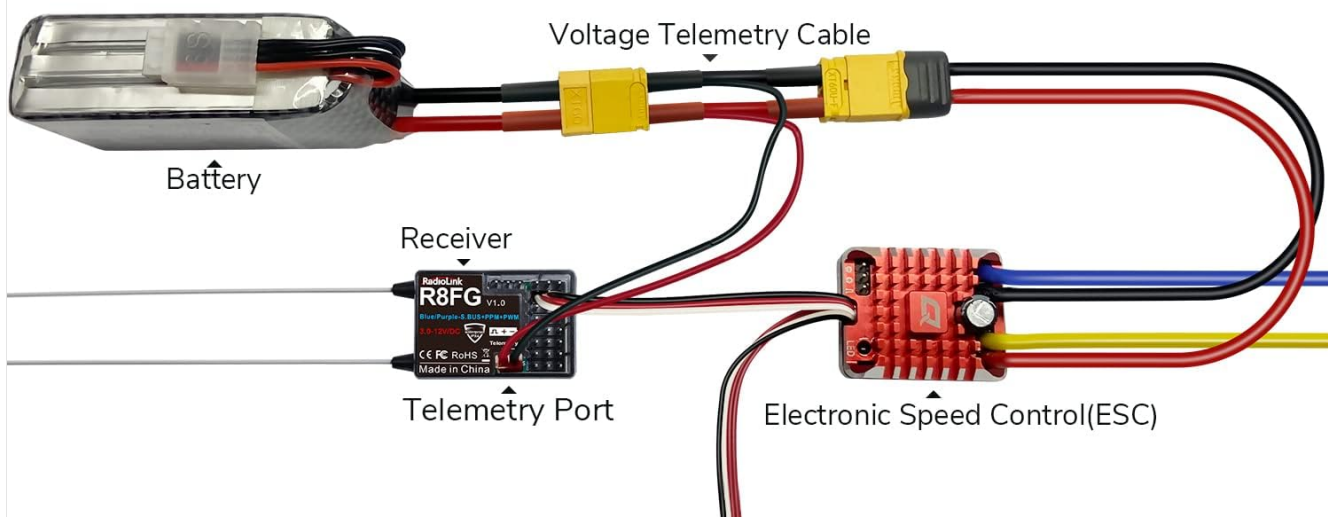# Telemetry of Maximum 8S (33.6V) Vehicle Battery Voltage

Image: The Radiolink RC8X transmitter screen showing real-time telemetry data, including receiver voltage (RX), external voltage (EXT), and RSSI, with a diagram of the voltage telemetry cable connection.

MAINTENANCE

Firmware Update

To ensure optimal performance and access new features, regularly update the RC8X firmware. Follow these steps:

1. Download the latest firmware from the Radiolink official website (www.radiolink.com).
2. Unzip the firmware file (usually a .zip file) to access the complete packs, including firmware, font, icon, and sounds.
3. Power off the RC8X.
4. Connect the RC8X to your computer using the provided USB cable.
5. Push DT1 and DT2 trim buttons to the middle, and long-press the power button to enter USB mode.
6. Select "USB MODE" and then "Update the latest" using the DL1 switch and PS3 button to confirm.
7. The computer will display two removable disks: RC8X-EXT and RC8X-INT. Copy the firmware files into RC8X-EXT. If prompted,

select "Replace the files in the destination".

8. After copying is complete, press PS3 to disconnect the USB connection.
9. Power off the RC8X again, then power it back on.
10. Verify the firmware version in the System menu under "User name" to confirm the update was successful.

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Video: A detailed tutorial on how to update the firmware of the Radiolink RC8X transmitter, covering downloading the firmware, copying files to the SD card via USB mode, and verifying the update.

TROUBLESHOOTING

If you encounter any issues with your Radiolink RC8X, consider the following general troubleshooting steps:

- **Binding Issues:** Ensure the transmitter and receiver are within close proximity during the binding process. Double-check that the correct FHSS protocol (V1 or V2) is selected on the transmitter for your specific receiver.
- **No Power:** Verify that the LiPo battery is fully charged and correctly installed. If using the AA battery tray, ensure batteries are fresh and properly oriented.
- **Control Lag/Unresponsiveness:** Check for any environmental interference. Ensure the receiver antennas are properly positioned and not obstructed. Verify that the servo speed setting is appropriate for your servos (14ms for analog, 4ms or 3ms for digital).
- **Display Issues:** If the screen is unresponsive, try restarting the transmitter. Ensure the firmware is up to date.
- **Firmware Update Failure:** Confirm that the correct firmware file for your RC8X model is downloaded. Ensure the USB cable connection is stable and the battery has sufficient power during the update process.

For more detailed troubleshooting and FAQs, please refer to the official Radiolink website or contact customer support.

SPECIFICATIONS

Product Dimensions	4.76 x 6.42 x 8.43 inches
Item Weight	15.4 ounces
Item Model Number	RC8X
Manufacturer Recommended Age	14 years and up
Batteries	Lithium Metal batteries required. (included)
Manufacturer	Radiolink

WHAT'S IN THE BOX

- 1x RC8X Controller
- 1x R8FG Receiver
- 1x R4FGM Receiver
- 1x 2S 1700 mAh LiPo Battery

- 1x 32GB SD Card
- 1x Type-C Data Cable
- 1x Lanyard
- 1x Spare Throttle Accessory
- 2x Screwdrivers
- 1x Quick Start Guide
- 1x Carrying Bag

WARRANTY AND SUPPORT

Radiolink Electronic Co., Ltd. is committed to providing high-quality products and customer service. For any support needs, please refer to the following resources:

- **Online User Instruction:** A complete user manual, FAQs, and troubleshooting resources are available on the Amazon sales page and the Radiolink Direct store.
- **Contact Support:** You can find support through the Radiolink Direct store.

Radiolink has a professional research and development team, many of whom are RC hobbyists, dedicated to creating powerful products and offering friendly after-sales service.