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› [HOTRC CT-6A RC Transmitter and Receiver User Manual](#)

## havcybin CT-6A

# HOTRC CT-6A RC Transmitter and Receiver

## USER MANUAL

### 1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your HOTRC CT-6A (CT-600) RC Transmitter and Receiver system. This 6-channel, 2.4GHz remote control is designed for various RC models including cars, boats, and tanks, offering stable and precise control. Please read this manual thoroughly before using the product to ensure proper function and safety.

### 2. PRODUCT FEATURES

- **Upgraded Functionality:** Features an LED screen for visual display of transmitter voltage, return voltage, and signal return. Includes a locking function, 15-minute automatic shutdown, and upgraded button code for enhanced usability.
- **Advanced Channel Settings:** Supports 1/2 channel and 5/6 channel mixing control. Allows for travel volume adjustment across all 6 channels. The receiver is upgraded to 6 PWM outputs plus a level signal.
- **Stable 2.4GHz Signal:** Utilizes 2.4GHz FHSS (Frequency Hopping Spread Spectrum) technology for stable and interference-free operation. Offers a reliable ground control distance of 400-500 meters with a rapid 3ms receiver response.
- **Powerful 6-Channel Control:** Provides 6 channels with runaway protection. Channels 1-2 can be set for mix control, channels 3-4 for servo control, and channels 5-6 for light control. Fine-tuning buttons can be locked to prevent accidental changes.
- **Ergonomic and Durable Design:** Designed with an ergonomic pistol-grip and steering wheel for comfortable one-handed operation. Features a standard sponge wheel, exquisite electroplating, high-grade PVC panel, and comfortable silicone strips for a premium feel and durability. Includes an innovative detachable battery box.

### 3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1 x HOTRC CT-600 Remote Controller (Transmitter)
- 1 x Receiver
- 1 x User Manual

## 4. SAFETY INFORMATION

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While no specific safety warnings are provided with this product, it is crucial to follow general safety guidelines when operating RC equipment:

- Always operate your RC model in a safe and open area, away from people, pets, and obstacles.
- Ensure batteries are correctly installed and charged according to their specifications.
- Never operate your RC model near water unless it is specifically designed for aquatic use.
- Keep the transmitter and receiver dry and clean.
- Disconnect batteries from the model and transmitter when not in use.
- Supervise children when they are operating RC models.

## 5. SETUP

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### 5.1 Battery Installation

The CT-6A transmitter supports three power supply methods: 18650 battery, 2S lithium battery, and AA batteries. The innovative detachable battery box allows for direct insertion of a 2S lithium battery balance port.

# FUNCTION INTRODUCTION



Image: The HOTT RC CT-6A transmitter showing its battery compartments and compatible battery types: 18650 lithium-ion battery, 2S lithium polymer battery pack, and AA batteries. The product does not include batteries.

1. Locate the battery compartment on the bottom of the transmitter handle.
2. Choose your preferred battery type (18650, 2S LiPo, or AA batteries).
3. Insert the batteries according to the polarity indicators inside the compartment. For 2S LiPo, utilize the balance port if applicable.
4. Close the battery compartment cover securely.

## 5.2 Receiver Connection and Binding

The receiver is equipped with a return function, capable of returning the voltage of the power battery and the signal of the receiver. It features a voltage return interface and a connecting cable.

The receiver is equipped with a return function, which can return the voltage of the power battery and the signal of the receiver

The receiver is equipped with a voltage return interface and a connecting cable

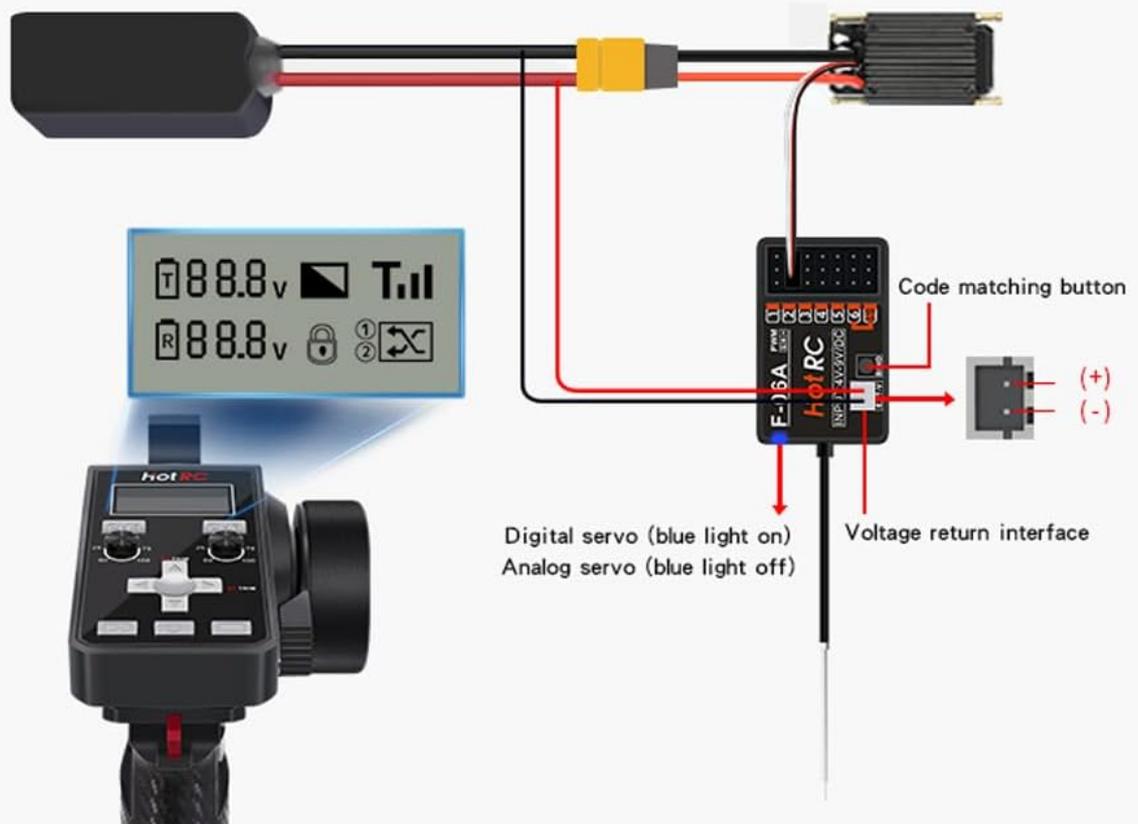


Image: Diagram illustrating the connection of the F-06A receiver to a power source, digital servo, and analog servo, along with the voltage return interface. The code matching button is also indicated.

1. Connect the receiver to your RC model's electronic speed controller (ESC) and servos according to your model's wiring diagram. Ensure correct polarity.
2. To bind the receiver to the transmitter, power on the receiver.
3. Press and hold the 'BIND' button on the receiver (refer to the diagram for location).
4. While holding the BIND button, power on the transmitter.
5. The indicator light on the receiver should change, indicating a successful bind. Release the BIND button.
6. Test the controls to ensure proper communication between the transmitter and receiver.

## 6. OPERATING INSTRUCTIONS

### 6.1 Transmitter Overview

Familiarize yourself with the main components and controls of the CT-6A transmitter:

Support three power supply methods, 18650 battery,  
2S lithium battery, and AA battery  
Two batteries can be used at the same time  
The remote control can also charge the 18650 battery



\*The product does not include the battery part, please purchase it yourself

Image: Labeled diagram of the HOTRC CT-6A transmitter, highlighting key components such as the charging port/simulation port, internal antenna, directional joystick, metal pendant, CH4, CH3, single-hand operation, throttle trigger, 18650 battery compartment, AA battery compartments, and 2S lithium battery interface.

- **Steering Wheel:** Controls the steering of your RC model.
- **Throttle Trigger:** Controls the forward and reverse movement (speed) of your RC model.
- **CH3/CH4 Buttons:** Auxiliary channels for controlling additional functions like winches, gear shifts, or other accessories.
- **Metal Pendant:** A red CNC metal pendant that can be used to install a mobile phone bracket.
- **Charging Port/Simulation Port:** Type-C interface for charging 18650 batteries (if installed) and connecting to a simulator.

## 6.2 LCD Display and Controls

The integrated LCD screen provides real-time information and allows for precise adjustments.

You can visually see the transmitter voltage, return voltage,  
return signal, mixing control, etc.  
Constantly challenge the cost-effective, experience the fun with a screen



Image: Close-up of the HOTRC CT-6A transmitter's LCD screen, showing the display of transmitter voltage, return voltage, echo signal, mixed control mode, and lock icon. Below the screen are the CH5 and CH6 adjustment knobs, directional travel, throttle stroke, CH1/CH2 fine-tuning buttons, mixed control settings, power switch, and channel positive/negative settings.

- **Transmitter Voltage:** Displays the current voltage of the transmitter's battery.
- **Return Voltage:** Displays the voltage returned from the receiver (e.g., RC model's battery voltage).
- **Echo Signal:** Indicates signal strength or status.
- **Mixed Control Mode:** Icon indicating if mixed control is active.
- **Lock Icon:** Indicates if the fine-tuning buttons are locked.
- **CH5/CH6 Knobs:** Adjustments for channels 5 and 6.
- **Trim Buttons (CH1/CH2 Fine Tuning):** Used to make small adjustments to the neutral position of steering (CH1) and throttle (CH2).
- **Mixed Control Settings Button:** Toggles or adjusts mixed control modes.
- **Channel Positive and Negative Button:** Adjusts channel direction (reverse).

### 6.3 Channel Functions and Advanced Settings

The CT-6A offers versatile channel configuration and advanced control options:

# HotRC CT-6A

With LCD display voltage return function , signal return function Support 18650 battery , AA battery , 2S lithium battery power supply ,support CH1 , CH2 mixed control and CH5 , CH6 mixed control CH1 , CH2 CH3 , CH4 . CH5 , CH6 stroke can be adjusted Automatic shutdown function lock function , out of control protection function



2.4G frequency hopping



LCD screen



Charging & Analog Port



Mixed control function



return channel



Locking function



Stroke adjustment



Single-hand operation



Positive and negative channels



Single-hand operation



Automatic shutdown



Electronic fine tuning

Image: An infographic summarizing the key features of the HOTRC CT-6A, including 2.4G frequency hopping, LCD screen, charging & analog port, mixed control function, return channel, locking function, stroke adjustment, single-hand operation, positive and negative channels, automatic shutdown, and electronic fine tuning.

- **Mixed Control:** Channels 1-2 and 5-6 can be set to mix control mode, allowing for complex vehicle movements (e.g., tank steering).
- **Servo Control:** Channels 3-4 are typically used for controlling servos for specific functions.
- **Light Control:** Channels 5-6 can be used to control lights or other accessories on your RC model.
- **Stroke Adjustment:** The travel volume for channels 1, 2, 3, 4, 5, and 6 can be adjusted to limit or extend the range of movement for connected components.
- **Lock Function:** The fine-tuning buttons can be locked to prevent accidental adjustments during operation.
- **Runaway Protection:** All 6 channels can be configured with runaway protection, ensuring the model stops or returns to a safe state if signal is lost.

## METAL PENDANT ELECTROPLATING BUTTON

The red CNC metal pendant can be installed with a mobile phone bracket, and the buttons are treated with electroplating technology to make the product more beautiful



## SINGLE HANDED OPERATION DUAL COLOR SPONGE WHEEL

The unique design structure can achieve single handed operation of the remote control. Paired with a dual color sponge wheel for a comfortable and beautiful feel.



## CHANNEL POSITIVE AND NEGATIVE LOSS OF CONTROL PROTECTION

CH1 CH2 can be set with both positive and negative positions. The remote control has a runaway protection function and can also set parameters according to requirements.



## LOCK FUNCTION HYBRID CONTROL FUNCTION

To prevent accidental operation of the remote control, the setting function keys can be locked. Remote control CH1 & x CH2 can be mixed control. Remote control CH5 & x CH6 can be mixed control.



## CHARGING FUNCTION, SIMULATION FUNCTION, UPGRADE FUNCTION

The Type-C interface supports simulation function, which can charge 18650 batteries and upgrade the remote control in the future.

Image: A detailed view of specific features of the HOTRC CT-6A, including the metal pendant, single-handed operation with dual color sponge wheel, channel positive and negative loss of control protection, lock function hybrid control function, and charging function/simulation function/upgrade function via the Type-C interface.

## 7. MAINTENANCE

Proper maintenance will extend the life and performance of your HOTRC CT-6A system:

- **Cleaning:** Use a soft, dry cloth to clean the transmitter and receiver. Avoid using solvents or harsh chemicals.
- **Storage:** Store the system in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries from the transmitter if storing for extended periods.
- **Inspection:** Periodically check all cables and connectors for signs of wear or damage.

## 8. TROUBLESHOOTING

If you encounter issues with your CT-6A system, refer to the following common problems and solutions:

- **No Power/Transmitter Not Turning On:**

- Check battery installation and ensure batteries are fully charged.
- Verify battery polarity is correct.
- **Receiver Not Binding:**
  - Ensure both transmitter and receiver are in binding mode simultaneously.
  - Confirm the receiver is receiving power.
  - Try rebinding in a location with minimal interference.
- **Loss of Range/Erratic Control:**
  - Check for potential radio interference from other 2.4GHz devices.
  - Ensure the transmitter and receiver antennas are not obstructed or damaged.
  - Verify battery levels in both transmitter and RC model.
- **Controls Not Responding Correctly (e.g., Steering/Throttle Reversed):**
  - Adjust the channel positive/negative (reverse) settings on the transmitter for the affected channel.
  - Check servo connections to the receiver.
- **Automatic Shutdown Occurs Too Soon:**
  - The transmitter has a 15-minute automatic shutdown function if no operation is detected. This is a power-saving feature.

## 9. SPECIFICATIONS

Feature	Specification
Model Type	Car, Boat, Tank
Channels	6CH
RF Range	2.4Ghz ISM (2.4005 - 2.483.5Ghz)
RF Power	100mW
Modulation	GFSK
Spread Spectrum	FHSS
Reaction Speed	PWM≤20ms
RF Distance (Ground)	400m-500m
Receive Sensitivity	-97dbm
Transmitter Voltage	DC 4.5-9V
Receiver Voltage	DC 4V-14V
Gross Weight	260g
Product Dimensions	1 x 2 x 3 inches
Item Weight	8 ounces

Item Model Number	CT-600
Manufacturer Recommended Age	8 months - 3 years
Manufacturer	havcybin

## 10. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact the manufacturer, havcybin, directly through their official support channels. Keep your proof of purchase for any warranty claims.



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