

## Etrogo MC6C

# Etrogo MC6C 2.4GHz 6 Channel Radio Transmitter User Manual

Model: MC6C | Brand: Etrogo

## 1. INTRODUCTION

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The Etrogo MC6C 2.4GHz 6 Channel Radio Transmitter is designed for a wide range of radio control models, including RC drones, aircraft, helicopters, cars, and boats. It features a 2.4GHz frequency hopping spread spectrum (FHSS) system, offering robust interference protection, low power consumption, and high receiver sensitivity. This manual provides essential information for the safe and effective operation of your MC6C transmitter and MC6RE receiver.

## 2. SAFETY INFORMATION

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- Always operate your RC model in open areas, away from people, vehicles, and obstacles.
- Ensure all batteries are fully charged before each use.
- Never operate your RC model near power lines, busy roads, or residential areas.
- Keep the transmitter and receiver away from moisture and extreme temperatures.
- Children should only operate RC models under direct adult supervision.
- Verify proper control surface movement and throttle response before launching any aircraft or operating any vehicle.

## 3. PACKAGE CONTENTS

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Please check the package contents carefully upon unboxing:

- 1 x MC6C Transmitter
- 1 x MC6RE Receiver with Antenna
- 1 x English Manual (This document)

## 4. PRODUCT OVERVIEW

The MC6C transmitter features a robust design with intuitive controls. The MC6RE receiver is compact and designed for easy integration into various RC models.



Image 1: Etrogo MC6C 2.4GHz 6 Channel Radio Transmitter with MC6RE Receiver. This image displays the front view of the MC6C transmitter, showing the control sticks, switches, and display area, alongside the compact MC6RE receiver with its antenna.

### 4.1 Transmitter Components

- **Control Sticks:** Used for primary control inputs (throttle, aileron, elevator, rudder). Note: This is a Mode 1 transmitter, meaning the throttle control is on the right stick.
- **Switches:** Auxiliary switches for various functions depending on your model setup.
- **Antenna:** Integrated 2.4GHz antenna for reliable signal transmission.
- **Battery Compartment:** Located at the rear, holds 4 x AA batteries.

### 4.2 Receiver (MC6RE) Components

- **Antenna:** For receiving 2.4GHz signals from the transmitter.

- **PWM Output Ports:** 6 ports for connecting servos and ESCs.
- **SBUS Output Port:** 1 port for single-line digital signal output, compatible with SBUS-enabled flight controllers.
- **Binding Button:** Used to pair the receiver with the transmitter.

## 5. SETUP

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### 5.1 Transmitter Battery Installation

1. Open the battery compartment cover on the back of the MC6C transmitter.
2. Insert 4 x AA batteries, ensuring correct polarity (+/-).
3. Close the battery compartment cover securely.

### 5.2 Receiver Connection

Connect the MC6RE receiver to your RC model's flight controller, ESCs, or servos according to your model's specific wiring diagram.

- **PWM Connections:** Use the 6 PWM output ports for individual servo or ESC connections.
- **SBUS Connection:** If your flight controller supports SBUS, connect the SBUS port for a single-wire digital connection.
- Ensure the receiver's power input (typically from the ESC's BEC or a separate power source) does not exceed 8V.

### 5.3 Binding the Transmitter and Receiver

The binding process establishes a unique communication link between your MC6C transmitter and MC6RE receiver.

1. Ensure the transmitter is turned OFF.
2. Power on the receiver while holding down the binding button on the MC6RE receiver. The receiver's LED indicator will flash rapidly.
3. While the receiver LED is flashing, turn on the MC6C transmitter.
4. The receiver's LED should turn solid, indicating a successful bind.
5. Turn off both the transmitter and receiver, then power them on normally to confirm the bind.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Basic Controls (Mode 1)

The MC6C is configured for Mode 1 operation:

- **Right Stick:** Controls Throttle (vertical movement) and Rudder (horizontal movement).
- **Left Stick:** Controls Aileron (horizontal movement) and Elevator (vertical movement).
- Familiarize yourself with these controls before operating your model.

### 6.2 Channel Functions

The transmitter provides 6 PWM channels and 1 SBUS channel for controlling various functions of your RC

model. The specific assignment of channels to functions (e.g., flaps, landing gear) will depend on your model's setup and flight controller configuration.

## 6.3 Low Voltage Alarm

The MC6C transmitter features a low voltage alarm mode. When the transmitter battery voltage drops below a safe operating level, a combination of an LED indicator and an audible buzzer alarm will activate, signaling that the batteries need to be replaced or recharged immediately.

## 7. MAINTENANCE

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

## 8. TROUBLESHOOTING

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- **No Power:** Ensure batteries are correctly installed and fully charged. Check for corrosion in the battery compartment.
- **No Control/Loss of Signal:** Re-bind the transmitter and receiver. Ensure the receiver is powered correctly. Check for obstructions or excessive distance between transmitter and receiver.
- **Erratic Control:** Check for interference from other 2.4GHz devices. Ensure all connections are secure.
- **Low Voltage Alarm:** Replace or recharge the transmitter's AA batteries immediately.

## 9. SPECIFICATIONS

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Feature	Specification
Switch Channels	6
Remote Control Battery	4 x AA batteries (not included)
RF Range	2401MHz - 2479MHz
RF Power	Less than 100mW
Control Distance	> 800 meters
Working Current	Less than 120mA
Working Voltage	4.5 - 8V
Modulation Mode	FSK
Sensitivity	1024
Antenna	Integrated
Signal Output	6 PWM signals and 1 SBUS signal

Feature	Specification
Analog & External Power Supply	Yes (not more than 8V)
Low Voltage Alarm Mode	LED indicator and buzzer alarm
Product Weight (Transmitter)	0.4 kg (0.88 lbs)
Product Dimensions (L x W x H)	18.00 x 17.00 x 5.00 cm (7.09 x 6.69 x 1.97 inches)
Manufacturer Recommended Age	16 months and up

## 10. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the retailer or manufacturer's official website where the product was purchased. Keep your proof of purchase for any warranty claims.