

[Manuals.plus](#) /

> [DUMBORC](#) /

> DUMBORC X6 Transmitter and Receivers User Manual

## DUMBORC X6

# X6 Transmitter and Receivers User Manual

Model: DUMBORC X6 Series | Brand: DUMBORC

### INTRODUCTION

The DUMBORC X6 Transmitter and Receiver kit provides a robust 6-channel RC control system designed for a wide range of models, including RC cars, boats, and tanks. This system integrates advanced features such as built-in gyro functionality, mixed mode operation, and multiple power supply options. It ensures stable and precise control over long distances, complemented by essential safety features like low voltage alarms and fail-safe mechanisms. This manual will guide you through the setup, operation, and maintenance of your DUMBORC X6 system.

### WHAT'S INCLUDED

Your DUMBORC X6 package includes the following components:

- 1 x DUMBORC X6 RC Remote Transmitter
- 1 x X6FG Receiver (with Gyro)
- 1 x X6F Receiver
- 1 x X6DCG Receiver (with LED Light Control)
- 1 x Set of 12PCS LED Lights
- 1 x Transmitter Sling



Image: All components included in the DUMBORC X6 package, showing the transmitter, three types of receivers (X6FG, X6F, X6DCG), LED lights, and a transmitter sling.

## PRODUCT OVERVIEW

### X6 Transmitter Features



Image: Close-up view of the DUMBORC X6 gun-style remote controller, highlighting its ergonomic design and control layout.

- **Gun-Style Design:** Ergonomic design for comfortable one-handed operation.
- **2.4GHz Transmission:** Provides strong anti-interference capabilities and a control distance of 400-500 meters.
- **Multiple Power Modes:** Supports 4x 1.5V AA dry batteries, USB power port (temporary supply), or a Lithium Battery Socket.
- **Low Voltage Alarm:** Alerts the user when the transmitter battery is low, allowing safe return of the model.
- **Throttle/Steering Direction Switch:** Allows users to reverse throttle and steering directions to suit personal preferences.
- **Throttle Sensitivity Adjustment:** Fine-tune throttle response for precise control.
- **Proportional Speed Change:** Enables proportional control for forward, reverse, and steering.

## Receiver Types



Image: The three types of receivers included: X6FG (with gyro), X6F (standard), and X6DCG (with LED light control), showing their compact size and connection ports.

- **X6FG Receiver:** Features a built-in gyroscope for enhanced stability and easier control, especially beneficial for beginners.
- **X6F Receiver:** Standard 6-channel receiver for general use.
- **X6DCG Receiver:** Includes integrated LED light control functionality, allowing direct control of the included LED lights.
- **Receiver Voltage Range:** 3.3-10V.
- **Operating Current:** 30mA.

## SETUP GUIDE

### 1. Battery Installation (Transmitter)

The X6 transmitter can be powered by 4x 1.5V AA dry batteries, a USB power source, or a compatible Lithium battery.

1. Open the battery compartment cover on the bottom of the transmitter.
2. Insert 4x 1.5V AA batteries, ensuring correct polarity (+/-).
3. Alternatively, connect a compatible Lithium battery to the designated socket or use the USB power port for temporary power.
4. Close the battery compartment cover securely.

### 2. Receiver Connection

Connect the receiver to your model's electronic speed controller (ESC), steering servo, and any other accessories

(like LED lights for X6DCG) according to your model's specific wiring diagram. Ensure all connections are secure and correctly oriented.

### 3. Binding Process

To establish communication between the transmitter and receiver, a binding process is required:

1. Ensure the transmitter is turned OFF.
2. Connect the receiver to power (e.g., via the ESC). The receiver's LED indicator should start flashing rapidly.
3. Press and hold the "BIND" button on the receiver (refer to the receiver's label for exact location, e.g., " ID" on X6DCG).
4. While holding the BIND button, turn ON the transmitter.
5. Release the BIND button on the receiver once the receiver's LED indicator turns solid, indicating a successful bind.
6. Turn OFF both the transmitter and receiver, then turn them back ON in sequence (transmitter first, then receiver) to confirm the bind.

## OPERATING INSTRUCTIONS

### Basic Controls

- **Steering Wheel:** Controls the direction of your model (left/right).
- **Throttle Trigger:** Controls the speed and direction (forward/reverse) of your model. Pull for forward, push for reverse.

### Mixed Mode

The X6 transmitter supports mixed control of channels 1 and 2. This feature is particularly useful for DIY models or specific vehicle types like tanks that require differential steering. Refer to the transmitter's manual or online resources for detailed mixed mode setup instructions.

### Throttle Sensitivity Adjustment

The transmitter allows for fine adjustment of throttle sensitivity. This is especially useful for beginners to limit the maximum speed for safer practice, or for experienced users to fine-tune acceleration characteristics.

### Low Voltage Alarm Function

The transmitter is equipped with a low voltage alarm (7.4V for 2S LiPo, 4.8V for 4x AA batteries). When the transmitter's battery voltage drops below the threshold, an alarm will sound, indicating that the battery needs to be replaced or recharged. This feature helps prevent unexpected loss of control due to power depletion.

### Control Distance

The DUMBORC X6 system utilizes 2.4GHz FHSS (Frequency Hopping Spread Spectrum) technology, providing a stable control distance of 400-500 meters. Always operate your model within visual range and be aware of your surroundings.

## MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your DUMBORC X6 system.

- **Cleaning:** Regularly wipe the transmitter and receivers with a soft, dry cloth. Avoid using harsh chemicals or solvents.
- **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.
- **Battery Care:** Always use fresh batteries or fully charged rechargeable batteries. Do not mix old and new batteries, or different types of batteries.
- **Inspection:** Periodically check all wires and connectors for signs of wear or damage.

## TROUBLESHOOTING

If you encounter issues with your DUMBORC X6 system, refer to the table below for common problems and their solutions.

Problem	Possible Cause	Solution
No power to transmitter	Dead or incorrectly installed batteries.	Replace batteries or check polarity. Ensure Lithium battery is charged if used.
Receiver LED flashing rapidly, no control	Transmitter and receiver not bound.	Perform the binding process as described in the Setup Guide.
Short control range or intermittent signal	Interference, low transmitter battery, or receiver antenna obstruction.	Check transmitter battery. Ensure receiver antenna is not obstructed or damaged. Avoid operating near strong interference sources.
Model not responding to controls	Receiver not powered, ESC not connected, or servo/motor issues.	Verify receiver power. Check all connections between receiver, ESC, servos, and motor. Test components individually if possible.
Steering/Throttle reversed	Direction switch set incorrectly.	Adjust the throttle direction / steering direction switch on the transmitter.

## TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	DUMBORC
Model No.	X6 (Transmitter)
Receivers Included	X6FG, X6F, X6DCG
Channels	6 Channels

Feature	Specification
Modulation Mode	GFSK
Spreading Mode	FHSS 67 channel pseudo-random frequency hopping
Transmission Frequency	2.4GHz ISM band (2400MHz~2483.5MHz)
Control Distance	400-500 meters
Remote Control Voltage Range	4.8-12V
Remote Control Working Current	80-120mA
Receiver Voltage Range	3.3-10V
Receiver Operating Current	30mA
RF Power	<20dbm
Data Resolution	4096 levels, 0.5us per level
Voltage Alarm	7.4V   4.8V
Transmitter Battery	4x 1.5V AA (Not included)
Product Dimensions (Transmitter)	20.5 x 16 x 10 cm (7.8 x 6.5 x 2.8 inches)
Receiver Dimensions (X6F/X6FG)	3.5 x 2 x 1.3 cm
Receiver Dimensions (X6DCG)	3.5 x 2.1 x 1.4 cm
Item Weight	1 pound (0.45 kg)
Recommended Age	5 - 10 years

## WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your DUMBORC X6 Transmitter and Receivers, please contact DUMBORC customer service directly or refer to the official DUMBORC website. Keep your purchase receipt as proof of purchase for any warranty claims.

You can visit the official DUMBORC store on Amazon for more information:[DUMBORC Store](#)