

EXMITTER



EXMITTER – Professional Remote Control Products Expert

WARNING

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product. CAUTION: Procedures, which if not be properly followed, is able to create a possibility of physical property damage AND or possibility of injury.



Read the **ENTIRE** instruction manual to become familiar with the features of the product before operating. Fail to operate the product correctly can result in damage to the product, personal property and cause serious injury.



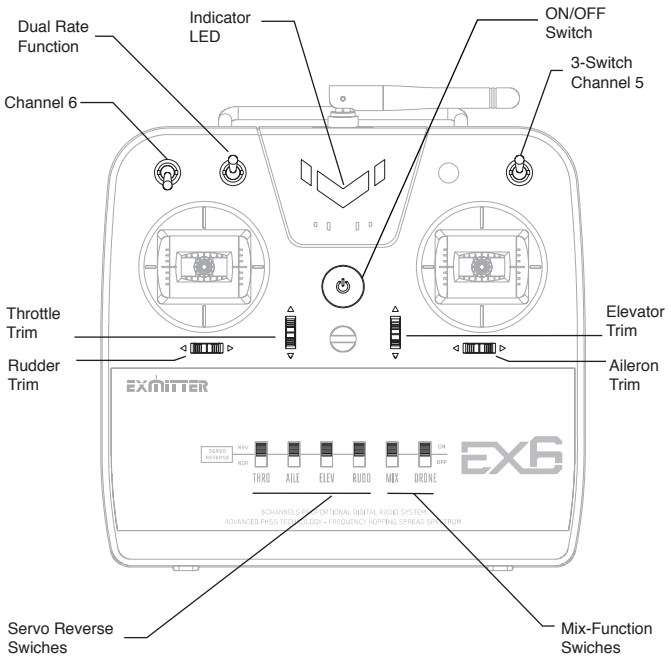
This is a sophisticated hobby product and **NOT a toy**. It must be operated with caution and common sense and requires some basic mechanical ability. Fail to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not attempt to disassemble , use with incompatible components or augment product in any way without the approval of VolantexRC Co., Ltd..

This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

Safety Precautions

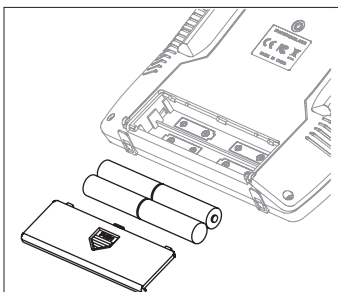
- Always ensure all batteries have been properly charged prior to using the model.
- Always check all servos and their connections prior to each run.
- Never operate your model near spectators, parking areas or any other area that could result in injury to people or damage of property.
- Never operate your model during adverse weather conditions. Poor visibility can cause disorientation and loss of control of your model.
- Never point the transmitter antenna directly toward the model. The radiation pattern from the tip of the antenna is inherently low.
- If at any time during the operation of your model you observe any erratic or abnormal operation, immediately stop operation of your model until the cause of the problem has been ascertained and corrected.

Transmitter Details



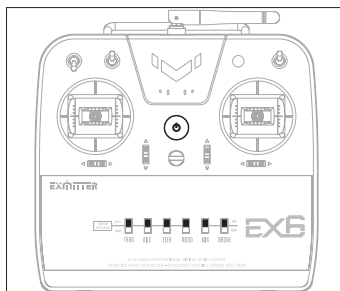
Install Batteries

Remove the battery cover and install 4 AA batteries. Make sure the polarity of each corresponds with the diagram in the battery holder. Replace the battery cover.



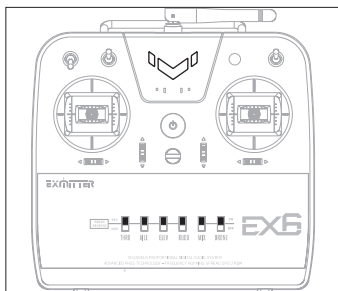
One-Button ON/OFF Switch

EX7 uses one-button ON/OFF switcher. Press the button for 1 second to turn on the transmitter ; Press and hold the button for 2 second to turn off the transmitter

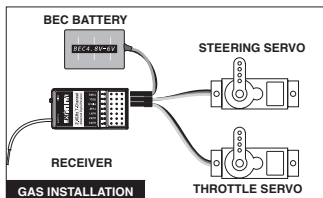
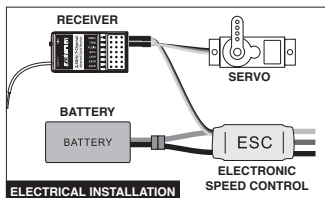


Low Voltage Alarm

When the battery voltage drops below 4.3 volts, an alarm will sound and the voltage LEDs will flash.



Install Your Receiver

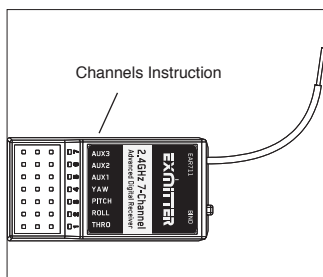
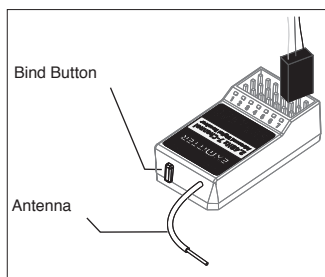


Install the receiver in your vehicle using double-sided Velcro. Velcro will hold the receiver in place and help isolate it from vibrations. Mount the antenna up and away from the vehicle in an antenna tube. The higher up the antenna is, the better signal it will receive.



CAUTION: Do not cut the antenna.

Receiver Connection & Binding



Binding is the process of programming the receiver to recognize the GUID (Globally Unique Identifier) code of a single specific transmitter. When a receiver is bound to a transmitter, the receiver will only respond to that specific transmitter. If you need to rebind for any reason, please follow these steps:

1. With the transmitter switched ON
2. Power on the receiver, then press the bind button in 3 seconds.
3. Loose the bind button and wait for about 5 seconds.
4. The receiver LED will keep flashing, means it is binding.
5. After the receiver LED stop flashing, it means the binding is done.

Failsafe Setting

The EX6 comes with the receiver failsafe set to NONE. In the event of loss of signal the motor will stop and the vehicle will willdrift. If the signal is regained normal function will return.

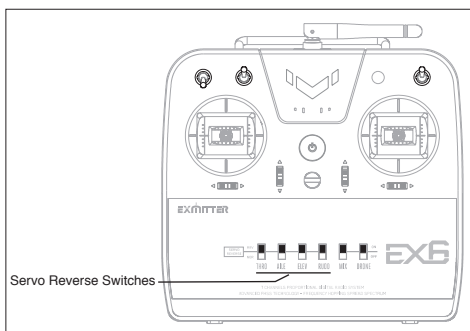
If you wish to program the failsafe to a custom setting, just follow these simple steps:

1. While binding(LED flashing), keep sticks at position that you want the vehicle to stay when failsafe
2. When binding done(LED stop flashing), the system will remember the position you set for failsafe

Servos Reverse

The EX6 allows servo reversing of 1 to 4 channels.

Reverse switches allow you to select direction of each channel. You must be clear which direction of each channel you need for flight before you put vehicle in the air.

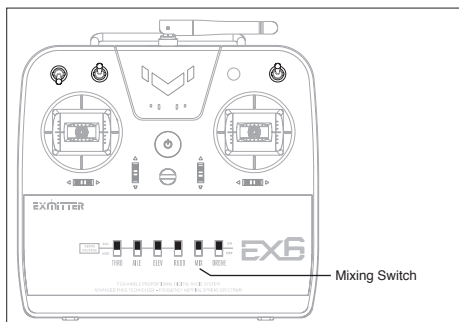


Elevon Mixing

The EX6 comes with elevon mixing function(also called delta wing) with a button switch.

Mixing combines the function of ailerons with the function of the elevator to allow precise control of both roll and pitch for delta wing aircraft.

To activate the elevon mix, move the mix switch to the on (upper) position.

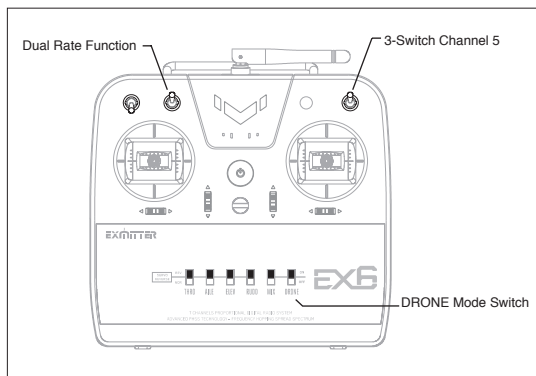


Auto Pilot Mode Logical Mixing

The EX6 allows mixing function in auto pilot mode. To achieve this function, just simply follow below steps:

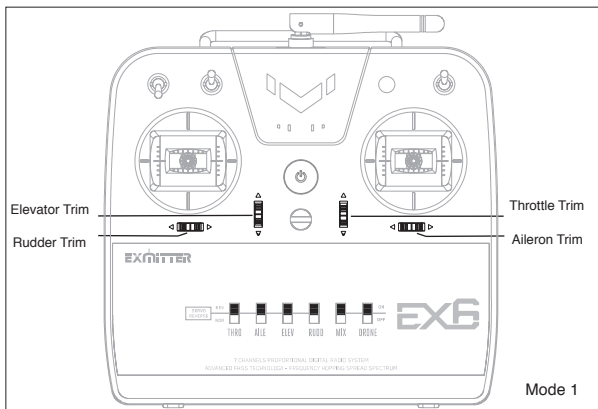
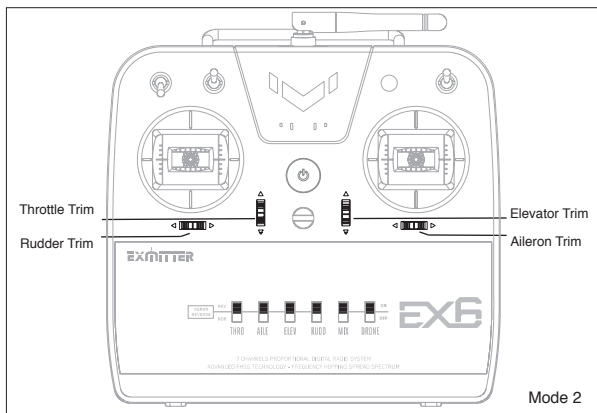
1. Switch DRONE to ON position
2. Six functions customizable to match your Auto Pilot System:
 - 1) Dual Rate Function switcher at lower position, low/middle/high position of Channel 5 for three different functions.
 - 2) Dual Rate Function switcher at higher position, low/middle/high position of Channel 5 for another three different functions.

Note: This function is designed for APM system, compatible to some other auto pilot system, but not guaranteed.

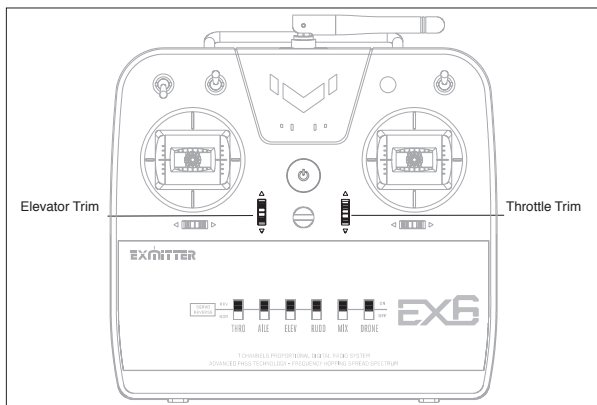


Digital Trims

The EX6 features digital trims. Each time a trimmer is moved the servo output will change one step. If the trimmer is held, the output will scroll in that direction until the trimmer is released or the output reaches its end.



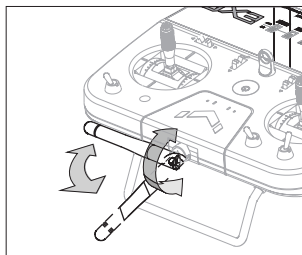
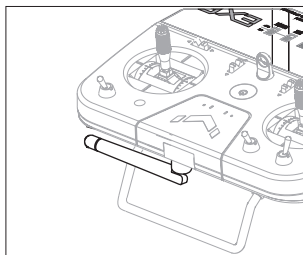
Manual Calibration



If the controlling performs not perfectly as you expected, try to recalibrate it manually by following below steps:

1. Hold the elevator trim&throttle trim at upper position while power on the transmitter to enter manual calibration mode.
2. Move all stickers to max position on each direction.
3. After finished, push elevator trin&throttle trim to upper position to exit back to normal mode.

Retreatable Antenna



The EX6 comes with a retreatable antenna. When transporting, you can rotate it down at rear place to save space.

FHSS Radio Control System

FHSS is an advanced radio control system with better performance of anti-interference.

EX6 comes with FHSS system, its faster frequency prevents interference signal from catching up. Therefore using this system allows the radio to work in a more stable environment.

Perform Range Check

As a precaution, an operational ground range check should be performed before the first flight each time out.

Performing a range check is a good way to detect problems that could cause loss of control such as low batteries , defective or damaged radio components or radio interference. This usually requires an assistant and should be done at actual flying site you will be using.

Firstly, turn on the transmitter. Then install the fully charged battery in to the vehicle and hold it in place with hook-and-loop strap. Connect the battery and install the hatch.

Remember, carefully not to "bump" the throttle stick. Otherwise the propeller will rotate and possibly cause damage or injury.

With the antenna on the transmitter collapsed(not extended),begin walking away from the model operating the controls in a predictable pattern(for example, turn elevator up, and then down. Turn aileron and rudder right, and then left). While moving the control surfaces, also vary motor rpm.

Remind your assistant to alert you if the controls fail to respond or if they move suddenly or erratically. You should be able to maintain control up to a distance of approximately 100 feet(30 meters).

If the controls respond erratically or if anything else seems wrong, make certain all the servo wires are securely connected to the receiver and that the transmitter and receiver batteries are fully charged. If you can not find a mechanical problem with the model, it is slightly possible that there is radio interference somewhere in the area. One option would be to try another range check at an alternate flying site.

After the range check, fully extend the antenna.

2.4GHz Trouble Shooting Guide

Problem	Possible Cause	Solution
The system is not connected	Your transmitter and receiver are too close	Take transmitter 1 to 3 meters away from receiver
	You are around metal objects	Try in an area with less metal around
	The model selected is not the model bound to	Check the selected model and ensure you are bound to the specific one
	The model is not the bound one	Rebind your transmitter and receiver
The receiver not responding during operation	Low battery voltage	Charge your battery
	Loose or damaged wires or connectors between battery and receiver	Check the wires and connection between the battery and receiver. Repair or replace wires and/or connectors

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