



Welcome to use the **DEVO 4** transmitter

# DEVO 4

## User Manual

**Note:** Please read throughly the manual before using and keep it in a safe place for the future reference.



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## Part one: General Information

### 1.0 Foreword

DEVO-4 is 4 channel Micro Computer System,uses 2.4 GHz Direct Sequence Spread Spectrum (DSSS) technology, supports automatic ID binding and assignment. It is small in size and easy to use.

#### 1.1 Important Statements

- (1) The transmitter is suitable for experienced radio controlled helicopter modelers beyond 14 years old.
- (2) Flying the model aircraft in approved ground is a must.
- (3) We are not responsible for any safety caused by operation, usage or control as soon as the transmitter is sold out.
- (4) We consign our distributors to offer technical support and service after sale. Please contact the local distributors for problem solutions caused by usage, operation, maintenance, etc.

#### 1.2 Safety Needing Attention

- (1) Far away from obstacle and people  
RC helicopter in flight is uncertain of flight speed and status, which potential risk exists in. when flying, please keep your RC helicopter far away from people, high buildings, high-tension line, etc, and avoid operating in rain, storms, thunder and lightning.
- (2) Away from humidity environment  
RC helicopter should be kept away from humidity and vapor because it is composed of complicated precise electronic elements and mechanic parts.

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(3) Proper operation

Please use Walkera original spare parts to upgrade, modify or maintain your equipment in order to assure its safety. Please operate your equipment within the range of functions permitted. It is forbidden to use out of the safety laws or regulations.

(4) Safety operation

Please fly your equipment according to your body status and flight skills. Fatigue, listlessness and miss-operation will increase the possibilities of accidental hazard.

(5) Away from heat source

The inside of the transmitter is composed of many precise electronic components and mechanical parts. Keep it far away from heat sources and sunshine to avoid distortion, or even damage caused by high temperature.

## 1.3 Attention before flight

(1) Ensure the battery packs of both transmitter and receiver are fully charged (saturated).

(2) Ensure both the throttle stick and the throttle trim of your transmitter stay at the lowest positions before operation.

(3) Please strictly obey the order of turn-on and turn-off before operation. When starting your flight, turn on your transmitter first, then connect the battery to the heli. When turning off the heli, disconnect the battery first, then turn off the transmitter. An upset in the order of connection may cause your helicopter to lose control. Please cultivate a correct habit of turn-on and turn-off.

(4) Ensure the directions and actions of the servos are correct when executing commands of the transmitter. Using a broken servo will result in unforeseen dangers.

## 2. 0 DEVO-4 transmitter Features

- (1) The DEVO-4 uses 2.4 GHz Direct Sequence Spread Spectrum (DSSS) technology.
- (2) Supports automatic ID binding and assignment.
- (3) 4 Channel Micro Computer Control system.
- (4) Type hidden reverse switch setting.
- (5) D/R Switch One Button Change.
- (6) Low Voltage Alarm.
- (7) Throttle High Alarm.
- (8) Supply with 4\*1.5V battery.

## 3. 0 DEVO-4 transmitter Specifications

Encoder	4-channel micro computer system
Frequency	2.4GHz DSSS
Output Power	≤ 10Mw
Current Drain	≤ 120mA
Power Source	5# Battery 4*1.5V or NiMH 4*1.2V 1600-2000mAh
Output pulse	1000-2000Ms (1500Ms Neutral)

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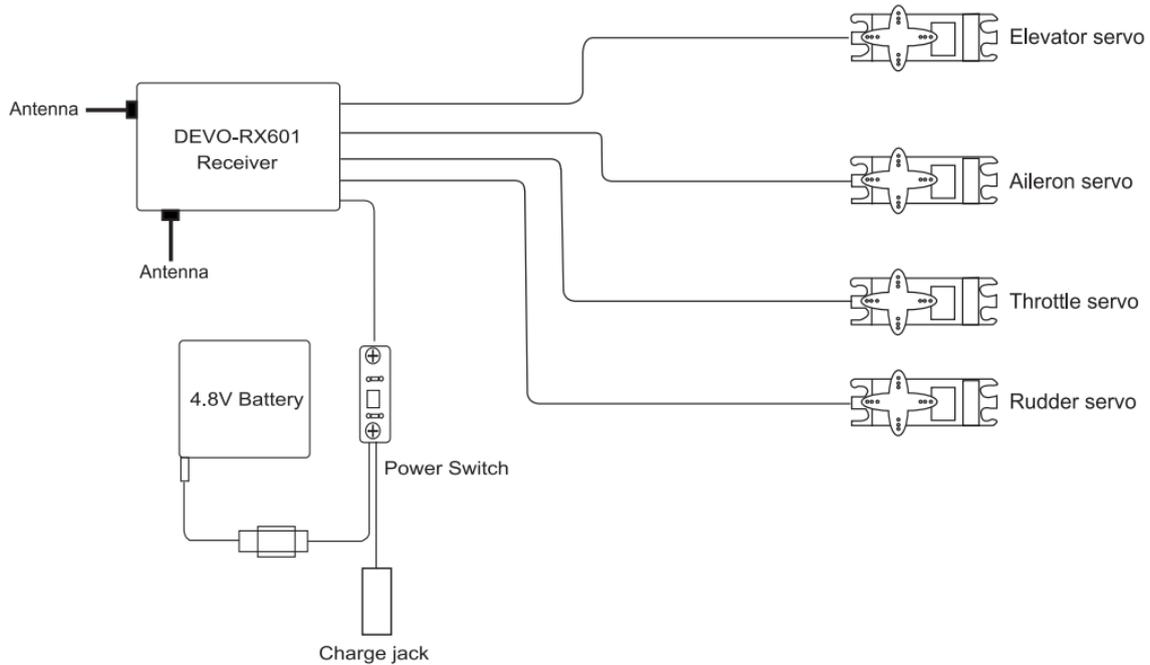
## 4.0 Definition of DEVO-4

### 4.1 Front Panel view



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## 4.2 Wiring Diagram:



## 5.0 Neck Strap Usage

There is a concealed hook in the face panel of DEVO-4. It will pop up as you press the hook. The neck strap can Neck Strap Eyelet be connected to the hook. The Hook located at the center helps to get optimal balance of the transmitter.



Neck Strap Eyelet

## 6.0 Installation requirement for receiver

It is important to correctly mount your radio system in your model. Below are some advices on how to install your equipments.

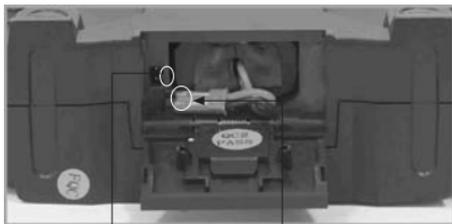
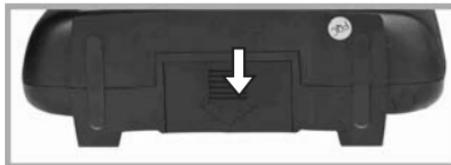
- (1) Using 10mm thick foam, wrap the receiver and attach it securely to the aircraft using a cable tie or strong rubber band. The foam will help protect the receiver.
- (2) It is suggested to use rubber grommets and copper washers to isolate the receiver from vibrations. Do not over tighten the screws in order that the grommets are not damaged otherwise vibration absorption will be reduced.
- (3) When mounting the servos, make sure the servos' bellcranks can move freely over their whole travel range and ensure the control linkages don't touch or impede the movement of the servos.
- (4) If installing additional switches, please install them far away from the engine exhaust pipe and other high vibration sources. Ensure all the switches move freely over their entire range.

## 7.0 Installation requirement for DEVO-4 battery pack

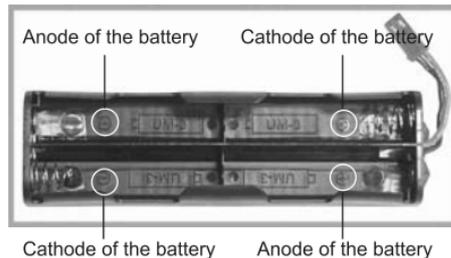
Open the battery cover of DEVO-4 transmitter and take out the battery box. Insert 4 new cells AA batteries either Alkaline or full charged NIMH battery into the battery box. Please double check the polarities are correct and do not mix old and new batteries.

### WARNING:

- (1) Inserting the batteries with the incorrect polarity can cause damage to the transmitter and/or batteries.
- (2) Do not put the polarities of batteries in the opposite directions.
- (3) Fool-proofing must insert correspondingly when battery pack connect to radio, see below:



Power fool-proof plug    Battery box fool-proof plug

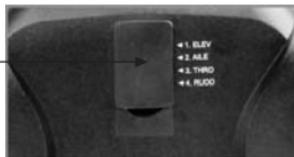


## Party two: Function Setup

### 1.0 Reverse Switch

Provide reverse switch of 4 channels, see below: Open the flexible flue cover of transmitter back, there will be 4 code switch, switch to ON according to mark on the cover. To cover the flexible flue cover after finish.

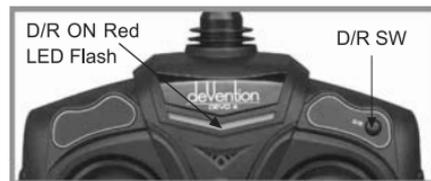
Rubber cover



### 2.0 Dual rate and Exponential

Dual Rate/Exponential is a function which permits a change in behavior of the control sticks.

Press the D/R button, the signal light turn from green to flashing red, it is changed to small Dual rate and the rate is 50%.



## **FCC Information**

This device complies with part 15 of the FCC results. Operations are subject to the following two conditions:

- (1) This Device may not cause harmful interface, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to part 15 of FCC Rules. These Limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, users can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment dose causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try contact the interference by one or more of the following measures:

- 1.1 Reorient or relocate the receiving antenna.
- 1.2 Increase the separation between the equipment and receiver.
- 1.3 Connect the equipment into an outlet on a circuit different from that two which receiver is connected.
- 1.4 Consult the dealer or experienced radio/TV technician for help.

## **WARNING**

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.



The specifications of the R/C Product may be altered without notice.

