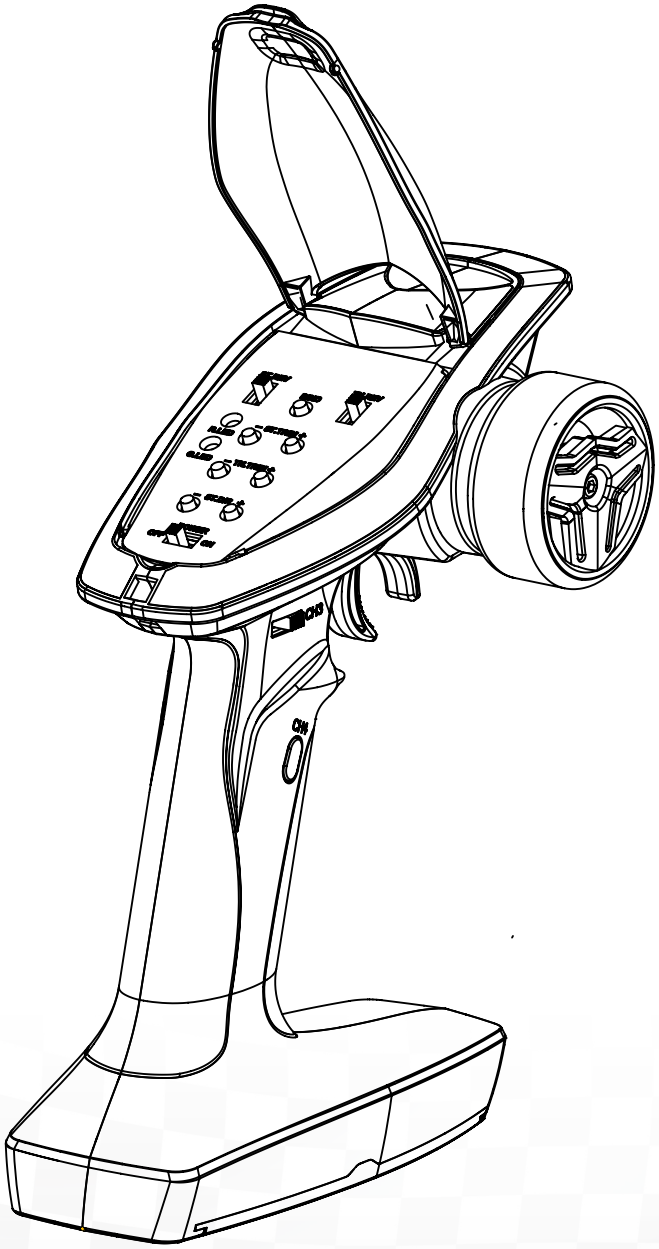
EG4

USER MANUAL

Digital Proportional Radio Control System



15+

WARNING:

This product is only for 15 years old or above

Thank you for purchasing our product, an ideal radio system for beginners or experienced users.

In order to ensure your safety, and the safety of others, read this manual carefully before using this product. If you encounter any problem during use, refer to this manual first. If the problem persists, contact your local dealer or visit our service and support website :

www.flysky-cn.com

Contents

1.Safety

1.1 Safety Symbols

Pay close attention to the following symbols and their meanings. Failure to follow these warnings could cause damage, injury or death.

⚠ **Danger**	• **Not following these instructions may lead to serious injuries or death.**
⚠ **Warning**	• **Not following these instructions may lead to major injuries.**
⚠ **Attention**	• **Not following these instructions may lead to minor injuries.**

1.2 Safety Guide

Prohibited **Mandatory**

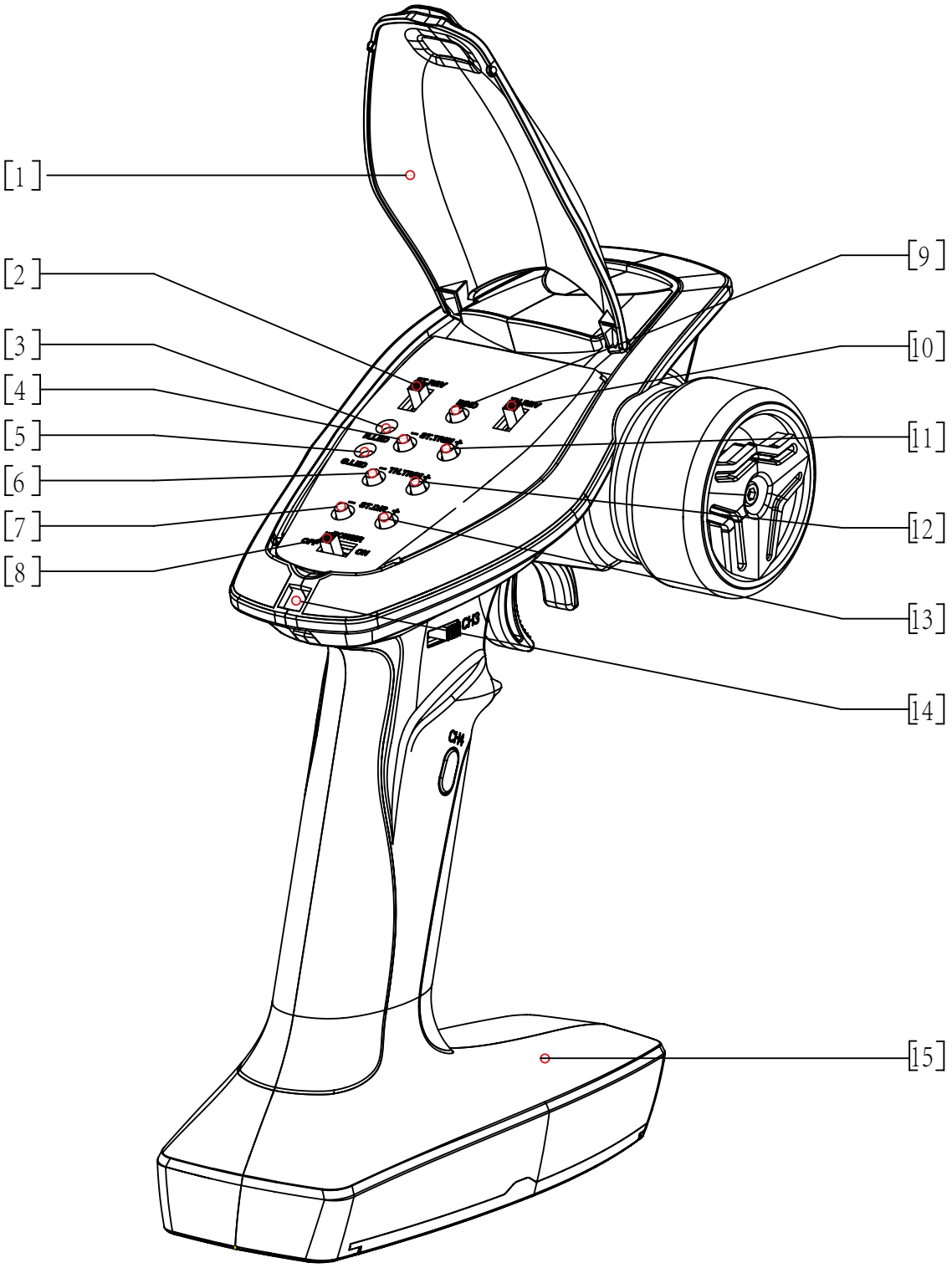
- **Do not use the product at night or in bad weather like rain or thunderstorm. It can cause erratic operation or loss of control.**
- **Do not use the product when visibility is limited.**
- **Do not use the product on rain or snow days. Any exposure to moisture (water or snow) may cause erratic operation or loss of control.**
- **Interference may cause loss of control. To ensure the safety of you and others, do not operate in the following places:**
  - Near any site where other radio control activity may occur
  - Near power lines or communication broadcasting antennas
  - Near people or roads
  - On any body of water when passenger boats are present
- **Do not use this product when you are tired, uncomfortable, or under the influence of alcohol or drugs. Doing so may cause serious injury to yourself or others.**
- **The 2.4GHz radio band is limited to line of sight. Always keep your model in sight as a large object can block the RF signal and lead to loss of control.**
- **Do not touch any part of the model that may generate heat during operation, or immediately after use. The engine, motor or speed control, may be very hot and can cause serious burns.**

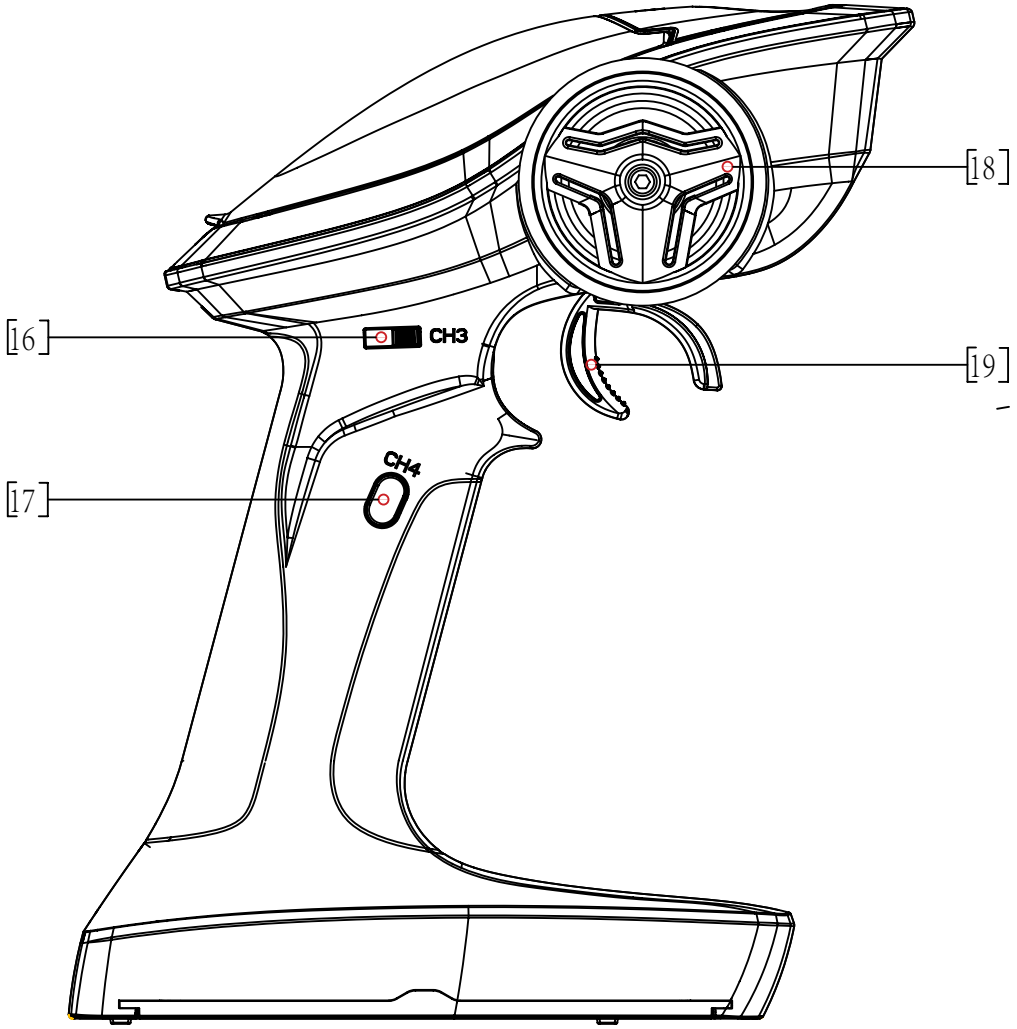
- **Misuse of this product may lead to serious injury or death. To ensure the safety of you and your equipment, read this manual and follow the instructions.**
- **Make sure the product is properly installed in your model. Failure to do so may result in serious injury.**
- **Make sure to disconnect the receiver battery before turning off the transmitter. Failure to do so may lead to unintended operation and cause an accident.**
- **Ensure that all motors operate in the correct direction. If not, adjust the direction first.**
- **Make sure the model stays within the systems maximum range to prevent loss of control.**

2.Introduction

The EG4 is a simple 4 channel transmitter using the latest AFHDS 2.4GHz ATN frequency hopping technology from Flysky. Designed to be sleek, passionate and powerful for entry level enthusiasts.

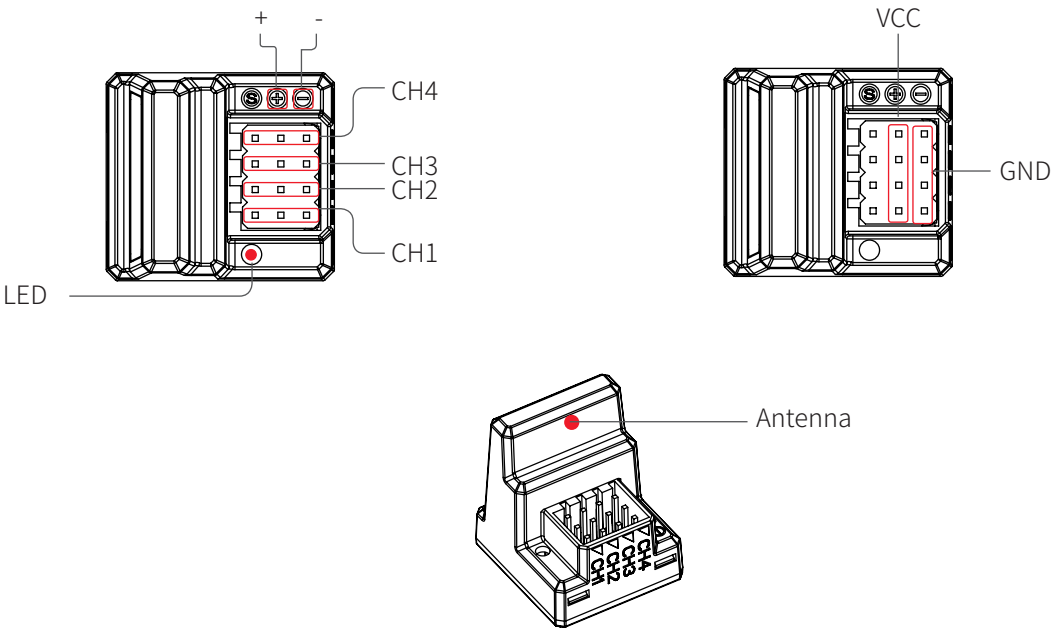
2.1 Transmitter overview





[1]	Panel Flip Cover	[11]	Steering Trim (ST.TRIM +)
[2]	Steering Reverse Switch (ST.REV)	[12]	Throttle Trim (TH.TRIM +)
[3]	Power indicator LED (R. LED)	[13]	Steering D/R (ST.D / R +)
[4]	Steering Trim (ST.TRIM-)	[14]	Lanyard Eye
[5]	Status indicator green LED (G.LED)	[15]	Base, 4 * AA battery compartment
[6]	Throttle Trim (TH.TRIM-)	[16]	Three-position switch (CH3))
[7]	Steering D/R (ST.D / R-)	[17]	Button (CH4)
[8]	Power Switch	[18]	Wheel Angle, the maximum rotation of the steering wheel is 35 degrees from center to left or right (CH1)
[9]	Bind Button (BIND)	[19]	Throttle trigger, has a total throw of 12 degrees, 12.5 degrees forward, and 12.5 degrees backward (CH2)
[10]	Throttle Reverse (TH.REV)		

2.2 Receiver overview



⚠ Note	• To ensure the best signal quality make sure that the antenna is mounted perpendicular to the model body in an upright position.

3.Getting Started

Before operation, install the battery and connect the system as instructed below.

3.1 Transmitter Battery Installation

⚠ Danger	• **Only use specified battery (X4 AA batteries).**
⚠ Danger	• **Do not open, disassemble, or attempt to repair the battery.**
⚠ Danger	• **Do not crush/puncture the battery, or short the external contacts.**
⚠ Danger	• **Do not expose to excessive heat or liquids.**
⚠ Danger	• **Do not drop the battery or expose to strong shocks or vibrations.**
⚠ Danger	• **Always store the battery in a cool, dry place.**
⚠ Danger	• **Do not use the battery if damaged.**

Battery Type: AA

Battery Installation:

1. Open the battery compartment cover.
2. Insert 4 fully-charged AA batteries into the compartment. Make sure that the battery makes good contact with the battery compartment's contacts.
3. Replace battery compartment cover.

Low battery alarm: When the battery is lower than 4.2v, the G.LED on the panel will flash slowly

4.Instructions

After setting up, follow the instructions below to operate the system.

4.1 Power On

Follow the steps below to turn on the transmitter:

1. Check to make sure that that battery is fully charged and installed correctly.
2. Toggle the switch to the [ON] position. When active the R.LED will be lit.
3. Connect the receiver to power.

- For safety always power on the transmitter before the receiver.

⚠ Note	• **Operate with caution in order to avoid damage or injury.**

⚠ Note	• **Make sure that the throttle is at its lowest position and the switches are set to their up position.**

4.2 Binding

The transmitter and receiver have already been bound at the factory.

However if the receiver needs to be replaced or additional receivers bound follow these steps:

1. Turn on the transmitter while holding the bind button to enter bind mode. G.LED will start flashing quickly.
- Once in bind mode release the bind button.
2. The receiver will enter bind mode atomically when powered on.
3. Once binding is successful the receiver’ s LED will flash slowly and the transmitter’ s LED will remain solid after being rebooted.

Note: When binding, put the transmitter into bind mode first, then the receiver.

- **applicable to the EG4 transmitter and the ER4 receiver. Different receivers have different bind procedures. For more information visit the FLYSKY website for manuals and other related information.**

- **Product information is updated regularly, please visit our website for more information.**

4.3 Stick Calibration

This function is used to set the neutral position for throttle and wheel.

Every transmitter is calibrated before leaving the factory, however if recalibration is required, please follow these steps:

1. Turn and hold the wheel as far clockwise as it will turn, hold the throttle all the way forward, then turn on the transmitter in calibration mode.
- The R.LED and G.LED will flash twice.
2. Calibrate wheel: Turn the wheel completely clockwise, then completely counterclockwise.
- When calibration is completed the R.LED will be off.
3. Trigger calibration: Pull the trigger back then forward as far as it will go.
- When calibration is completed the G.LED will be off.
4. Once calibration is complete press the bind key to save and exit.

4.4 Power Off

Follow the steps below to turn off the system:

1. Disconnect the receiver power.
2. Toggle the transmitter's power switch to the off position.

⚠ **Danger**	• **Make sure to disconnect the receiver power before turning off the transmitter. Failure to do so may lead to damage or serious injury.**

5.System Functions

This section focuses on the functions and how to use them.

5.1 Channel Description

The transmitter outputs a total of 4 channels, which are allocated as follows:

- CH1：Steering Wheel
- CH2：Throttle Trigger
- CH3：Three-position Switch
- CH4：Reset Button

Note: By default the output of CH4 is 1000us, after which pressing the button will toggle between 1000 and 2000us.

5.2 Channel Reverse

This function is used to adjust each channels direction of movement in relation to it’s input.
The ST.REV / TH.REV switches are the reverse buttons for CH1 and CH2. If the switch is up it indicates reverse, and the down indicates normal.

5.3 Trims

The ST.TRIM is the trims for CH1 (steering),and can be multiplexed as Trims of CH3 and CH4. For multiplexing switching mode, see [5.5 Mode Switching].
TH.TRIMis the trims for CH2(throttle).
Adjustment range: -120us- + 120us, each step is 4us;
ST.TRIM + / TH.TRIM +: increase adjustment step;
ST.TRIM- / TH.TRIM-: Decrease adjustment step.

LED Indicator:

- When using the trim keys the G.LED will flash slowly on short presses and quickly on long presses.
- When the fine adjustment value is at the midpoint, the G.LED will flash twice slowly.
- When the fine adjustment value is at both ends (+ 120us / -120us), the trim adjustment is at its maximum and as such G.LED will not flash(if the fine adjustment value has been adjusted to + 120us, then press ST.TRIM + / TH.TRIM + key is invalid and G.LED has Instructions)

5.4 D/R

ST.D / R is for servo travel adjustment, which can be multiplexed as CH2 (throttle), CH3, CH4 servo travel adjustment, see [5.5 Mode Switch] for multiplex switching mode;

Adjustment range: 0-120%(the default is 100%), the step is 5%.

ST.D / R +: increase servo travel.

ST.D / R -: decrease servo travel.

LED Indicator:

- When using the trim keys the G.LED will flash slowly on short presses and quickly on long presses.
- When the ratio value is at both ends (0/120%), the ST.D / R button is at its maximum and as such G.LED will not flash(if the ratio value has been adjusted to 120%, then press ST.D/R+ key is invalid and G.LED has Instructions)

5.5 Mode switching

This function is for reusing the ST.TRIM and ST.D / R buttons for different channels (see [5.3 Trims], [5.4 D/R).

Function setting:

Under normal power-on, quickly press the Bind button twice (within 1 Sec) to cycle through modes 1, 2, 3, and 4. The default setting when powering on is mode 1.

Mode 1: G.LED flashes slowly once, ST.TRIM is CH1 fine adjustment, ST.D / R is servo travel adjustment.

Mode 2: G.LED flashes twice slowly, ST.TRIM is CH1 fine adjustment, ST.D / R is CH2 servo travel adjustment.

Mode 3: G.LED flashes three times slowly, ST.TRIM is CH3 fine adjustment, ST.D / R is CH3 servo travel adjustment.

Mode 4: G.LED flashes slowly four times, ST.TRIM is CH4 fine adjustment, ST.D / R is CH4 servo travel adjustment.

5.6 Failsafe

This function dictates what the receiver will do in the event that it loses signal from the transmitter, this includes servo position etc.

Setup:

1. Turn on the transmitter and make sure it is connected to the receiver.
2. Hold the control surface at the desired failsafe position.
3. Press and hold the bind button for 3 seconds, if the G.LED starts flashing every 2 seconds then setup has been successful.

Failsafe is now set and will default to these values when the receiver looses signal.

Note: The fail-safe function has no default set at the factory and as such must be set manually. If no failsafe setting has been set, then the receiver will not output anything when signal is lost.

5.7 Beginner Mode

Beginner mode is designed for people new to the hobby.

In this mode the throttle will be limited to 50 percent, The channel range defaults to 1250~1500~1750us.

Setup:

To switch between beginner and normal modes press and hold the channel 4 button as the transmitter is turned on.

Note: By default, the system is set to normal mode. The GLED will flash slowly for 3 seconds during power on if the system is set to beginner mode.

6. Product Specifications

This section contains EG4 transmitter and ER4 receiver specifications.

6.1 Transmitter specification(EG4)

Product Model	EG4
Channels	4
Model Type	Car, Boat
RF	2.4GHz
RF Power	<20dBm
2.4GHz Protocol	ANT
Distance	>300m (ground)
Channel Resolution	1024
Battery	6V DC 1.5AA*4
Charging Interface	NO
Life time	According to battery type
Low Voltage Warning	<4.2V
Antenna Type	Built-in single antenna
Data Interface	No
Temperature Range	-30°C—+60°C
Humidity Range	20—95%
Online Update	No
Color	Black
size	160*193*97mm
weight	220g
Certification	CE, FCC ID:N4ZEG400

6.2 Receiver Specification (ER4)

Product Model	ER4
PWM Channels	4
RF	2.4GHz
2.4GHz Protocol	ANT
Distance	>300m (ground)
Antenna Type	Built-in single antenna
Power	3.5-8.4V
RSSI	No
Data Interface	PWM
Temperature Range	-30°C—+60°C
Humidity Range	20—95%
Online Update	No
weight	6g
size	22.6*20.6*25.5mm
Certification	CE, FCC

7. Package Contents

Transmitter*1（EG4)
Receiver*1(ER4)
User manual*1

8. Certification

8.1 DoC Declaration

Hereby, [Flysky Technology co., ltd] declares that the Radio Equipment [EG4] is in compliance with RED 2014/53/EU.

The full text of the EU DoC is available at the following internet address: www.flysky-cn.com.

8.2 CE Warning

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

8.3 Appendix 1 FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and 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 does cause harmful interference to radio or televison reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

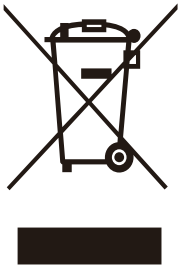
(1) This device may not cause harmful interference.and (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

1. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-lacated or operating in conjunction with any other transmitter.End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.
2. Move all your channels to the desired position.
3. Select [All channels] and then [Yes] in the confirmation box.

9. Environmentally friendly disposal



Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

www.flysky-cn.com

Release date: 2020-09-29

CE, FCC ID：N4ZEG400