[13] Right Light [14] Left Light

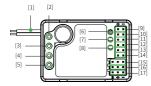
[15] CH4 [16] CH3 [17] CH1

产品介绍 Introduction

车灯控制信号,能够实现双向传输,采用自动对码, 设计小巧紧凑,可适配多种车型使用。

HW-711 采用 ANT 协议,是一款电调、LED 灯组控制 HW-711 based on ANT protocol is a three-in-one receiver with ESC and LED light 板三合一接收机,外置单天线,可输出 PWM 信号和 group control board. It has an external single antenna, can output PWM signal and light control signal, can implement two-way transmission, adopts automatic binding, and has a compact design, which can be adapted to various models.

妾收机概览 Receiver overviev



[1] 电源开关	[7] 接收机 LED	[13] 右车灯
[2] 马达"M+"	[8] 电调 LED	[14] 左车灯
[3] 电源 "+"	[9] 车顶灯	[15] CH4
[4] 电源 "-"	[10] 氛围灯	[16] CH3
[5] 马达"M-"	[11] 后尾灯	[17] CH1
[6] 工件	[12] 前十小	

[1] Power Switch	[7]RX LED
[2] Motor "M+"	[8] ESC LED
[3] Power "+"	[9]Roof Light
[4] Power "-"	[10]Ambient Ligh

[11] Tail Light [5] Motor "M-" [12]Head Light [6]Antenna

$^{\succ}$ 品规格 Product specification

●产品型号: HW-711 ● 适配发射机: FS-HW-G4P

● 适合机种:车 ● 通道个数: 4 ● 车灯接口数: 6 无线频率: 2.4G ISM

● 无线协议: ANT (蚂蚁版自动调频数字系统)

● 天线类型: 单天线

● 输入电源: Lipo (2~3S) /NiMH(5~9Cell)

● BEC 输出: 6V/3A

● 持续 / 峰值电流: 40A/200A

● 数据输出: PWM ● 温度范围: -10°C-+60°C ● 湿度范围: 20%~95% 防水等级: IPX7 ● 在线更新: 无

● 外形尺寸: 44mm*30mm*16.7mm

● 机身重量: 39g

● 认证: CE, FCC ID:N4ZHW711

Product Name: HW-711

Adaptive transmitter: FS-HW-G4P

 Model Type: Car Channels: 4

Numbers of Light Interfaces: 6

RF: 2.4G ISM

 2.4G Protocol: ANT Antenna: Single Antenna

Input Power: Lipo (2~3S) /NiMH(5~9Cell)

BEC Output: 6V/3A

Continuous / Peak Current: 40A/200A

Data Output: PWM

• Temperature Range: -10°C-+60°C

Humidity Limit: 20%~95%

WaterProof: IPX7

Online Update: No

• Dimensions: 44mm*30mm*16.7mm

Weight: 39g

• Certification: CE, FCC ID:N4ZHW711

对码 Binding

本款接收机上电即自动进入对码状态。

1. 将发射机(FS-HW-G4P)按住对码键开机进入对码状态,此时G.LED快闪,松开"BIND"键;

2. 接收机上电等待 1 秒没有连接将自动进入对码;

3. 对码成功后,接收机 LED 指示灯常亮;

注: (1) 对码时请先将发射机进入对码状态,再将接收机进入对码状态,若 10s 内对码没有完成,接收机指示灯进入慢闪状态;

(2) 如果重新对码成功,车灯的所有设置将恢复默认值。

The receiver automatically enters the binding state once it is powered on.

1. Press the BIND key to turn on the transmitter (FS-HW-G4P) and allow it to enter its binding state. Here, G.LED flashes quickly, and operator releases the BIND key.



FLYSKY HW-711

接收机 Receiver

对码 Binding

2. When the receiver is powered on and waits for 1 second, it will automatically enter the binding state if it is not connected; 3. After the binding is successful, the LED indicator of the receiver is always on.

Notes: (1) Set the transmitter to its binding state first, and then set the receiver to its binding state. If the binding is not completed within 10s, the indicator light of the receiver will enter its slow flashing state.

(2) If re-binding is successful, all the settings of the car lights will be restored to their default values.

车灯控制 Car light control

车灯控制主要是通过发射机的的设置实现车灯亮灯状态及亮灯模式的转换。

1. 车灯开启与关闭的控制方式:

- 车灯控制分为四通道控制和两通道控制两种方式,打开发射机,手轮顺时针打到最大行程,打开接收机电源,可以实现两种控制方式的切换
- 当切换为四通道控制时, CH3 最右为打开车灯, 最左为关闭车灯;
- 当切换为两通道控制时,手轮快速顺时针打到最大行程两次,打开应急灯,重复动作则关闭;手轮逆时针打到最大行程打开示宽灯或者呼吸/爆闪灯,重复动作则关闭;

2. 车灯工作的四种模式状态:

- 普通模式:向左打转向,左转向灯慢闪,向右打转向,右转向灯慢闪;CH3最右,前灯高亮,后灯低亮;刹车/后退,后灯高亮;按下CH4,应急灯慢闪;
- 运动模式: 向左打转向,左转向灯慢闪,向右打转向,右转向灯慢闪; 前进,前灯高亮,刹车/后退,后灯高亮; 按下 CH4,应急灯慢闪;
- 呼吸模式: 所有车灯(含车顶灯、氛围灯)呼吸闪烁,CH3 最右打开所有车灯,CH3 最左关闭所有车灯;
- 爆闪模式: 所有车灯(含车顶灯、氛围灯)爆闪,CH3最右打开所有车灯,CH3最左关闭所有车灯;
- 各工作模式切换方法: 快速短按 CH4 两下切换模式;
- 以上方式为使用 CH3 控制照明 / 示宽灯或者应急灯,关于手轮控制详见 2 说明。

3. 氛围灯和车顶灯的工作模式:

- 氛围灯和车顶灯包含单独模式和组合模式两种工作模式,在普通模式和运动模式下可以调节使用,在呼吸模式和爆闪模式中无法使用; 单独模式下氛围灯和车顶灯各自单独操控,互不干扰;组合模式下氛围灯和车顶灯共同工作,可以统一控制。手轮快速顺时打到最大行程4次可以切换两种工作模式。
- 组合模式下包含快闪、呼吸、关闭三种工作模式;手轮快速顺时打到最大行程3次可以切换不同的闪烁方式。
- 单独模式下氛围灯有呼吸、爆闪、三快闪一长灭和关闭四种工作模式,手轮快速顺时打到最大行程3次可以切换不同的模式,车顶灯有常亮、 慢闪、关闭三种工作模式,手轮快速逆时打到最大行程3次可以切换不同的工作模式。
- 注: (1) 若前后灯与实际控制相反时,需将前后灯控制方式进行反向,发射机开机状态下手轮保持逆时针打到最大行程,然后给接收机上电可以实现切换;若左右转向灯与实际控制相反时,则仅需在车灯接口处对调一下左右灯线;
 - (2) 若 CH1 设置了通道反向,则以上手轮操作均进行反方向操作(顺时针变为逆时针,逆时针变为顺时针);
 - (3) 车灯控制的方向 CH1 和油门 CH2 具有自动识别中位的功能。

The car light control is mainly to implement the changeover of lighting states and lighting modes by setting the transmitter. 1. Control mode of the car light ON/OFF:

- The car light control is divided into four-channel control and two-channel control. Switching between the two control modes can be
 implemented by turning on the transmitter, turning the handwheel clockwise to the maximum stroke, and turning on the power supply
 of the receiver.
- When switching to four-channel control, the rightmost position of CH3 turns on the car lights, and the leftmost position turns off the car lights.
- When switching to two-channel control, turn the handwheel quickly to its maximum stroke twice clockwise to turn on the emergency
 light, and turn off by repeating the action; Turn the handwheel counterclockwise to its maximum stroke to turn on the width indicator
 light or breathing/flashing light, and turn it off by repeating the action.

2. Four modes/states of car light operation:

- Normal mode: Turn the handwheel to the left, left turn signal flashes slowly; Turn the handwheel to the right, right turn signal flashes
 slowly; Set CH3 to its rightmost position, the headlights enter into high-luminance state and the tail lights enter into their low-luminance
 state; When brake is applied/gearbox is shifted to reverse gear, tail lights enter into their high-luminance state; Press CH4, the emergency
 lights flash slowly.
- Sports mode: Turn the handwheel to the left, left turn signal flashes slowly; Turn the handwheel to the right, right turn signal flashes slowly; When gearbox is shifted to forward gear, the headlights enter into their high-luminance state; When brake is applied/gearbox is shifted to reverse gear, the tail lights enter into their low-luminance state; Press CH4, the emergency lights flash slowly.
- Breathing mode: All lights (including roof lights and ambient lights) breathe and flash; Set CH3 to its rightmost position to turn on all car lights, and set CH3 to its leftmost position to turn off all car lights.
- Sharp flash mode: All lights (including roof lights and ambient lights) flash; Set CH3 to its rightmost position to turn on all car lights, and set CH3 to its leftmost position to turn off all car lights.
- · Switch Method: Quickly press CH4 twice to switch the modes.
- The above method is intended for using CH3 to control lighting/width light or emergency light. Please refer to 2 for details on handwheel control

3. Working modes of ambient light and roof light:

Ambient light and roof light include two working modes: single mode and combined mode, which can be adjusted and used in normal
mode and sports mode, but can not be used in breathing mode and flash mode; in the separate mode, the ambient light and the roof



车灯控制 Car light control

light are independently controlled and do not interfere with each other; In the combined mode, the ambient light and the roof light work together and can be controlled uniformly. The two working modes can be switched when the handwheel is turned clockwise to its maximum stroke four times.

- The combined mode includes three working modes: quick flashing, breathing and OFF. Different flashing modes can be switched when
 the handwheel is turned clockwise to its maximum stroke three times.
- In the single mode, the ambient light has four working modes: breathing, sharp flashing, three quick flashing one long lighting-off and
 OFF. Different modes can be switched when the handwheel is turned clockwise to its maximum stroke three times; The roof light has
 three working modes: always on, slowly flashing, and OFF, and it can be switched to different modes when the handwheel is turned
 counterclockwise to its maximum stroke three times.

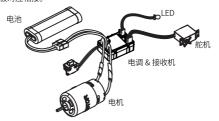
Notes: (1) If the front and tail lights are contrary to the actual control, the control mode of the front and tail lights should be reversed. When the transmitter is turned on, turn and keep the hand wheel counterclockwise to its maximum stroke, and power on the receiver to conduct the switchover; If the left and right turn signals are contrary to the actual control, it is only necessary to exchange the left and right light wires at the car light interface.

- (2) If CH1 is set with channel reversal, all the above handwheel operations should be operated in the reverse direction (change clockwise for counterclockwise, and change counterclockwise for clockwise).
- (3) The direction CH1 and accelerator CH2 for car light control are capable of automatic neutral position identifying.

电调功能使用说明 ESC function instructions

1. 连接相关设备:

• 连接前请确认电调开关处于关闭 (OFF) 状态, 将电机与电调的 M+/M- 相连接, 舵机接到电调 3Pin 排针接口上 ("-""+""S" 相对应),电池与电调输入正负极对应相接。



(连接示意图)

2. 正常开机,识别油门中点:

上面第一步相关设备连接好后,先打开遥控器,并将遥控器油门扳机置于中点位置(自然状态)。最后一步打开电调开关,当电调电池类型设置为锂电时,如使用 2S 锂电,电机会"滴-滴"鸣叫两声;若设置为镍氢模式,则电机只鸣叫一声;约 1 秒后电机会"滴-"长鸣一声表示自检完成,方可运行。

注意:

- a. 电调开机后必须等到自检完成后方可运行(大约3秒),否则可能无法正常动作:
- b. 若开机后无动力输出,且电调红灯快闪,说明遥控器实际油门不在中点位置。请查看遥控器油门微调是否置于"0"位置,微调油门中点直到电调红灯不闪即可;
- c. 若运行时发现电机转向不对,将电调接电机的两根线互换位置即可;
- d. 为了一切正常,请养成先打开遥控器最后打开电调开关以及先关闭电调开关最后关闭遥控器的习惯。

3. 行驶过程中指示灯(LED)状态说明:

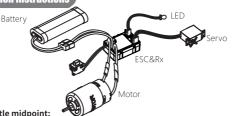
- 油门摇杆处于中点区域时,电调红灯熄灭;
- 前进时,红色 LED 快闪;当油门处于正向最大(100%油门)时,红色 LED 变成恒亮;
- 倒车时,红色 LED 快闪。
- 注:关于电调的电池类型、拖刹力度和运行模式的设置详见 FS-HW-G4P 说明书相关章节。

1.Connect related equipment:

 Make sure the ESC is off before connection. Connect the motor with M+ and M- of ESC. Connect the steering servo to the 3Pin interface marked with "ST" of ESC (- + S connected correspondingly). Connectthe battery with the positive and negative poles of ESC correspondingly.



电调功能使用说明 ESC function instructions



2. Normal boot, identification throttle midpoint:

After connecting related equipment as step 1, turn on the radio first, move the throttle trigger to the neutral position. Turn
on the switch of ESC at last. When the battery of ESC is LIPo, the motor will emit "beep-beep" twice if use 2s LiPo; when the
battery of ESC is NiMH cells, the motor will emit "beep" only once. After about 1 second, the motor will long emit "beep"
sound, indicating self-inspection is completed, then can run it.

Note:

a.The ESC can be run after completing self-inspection (about 3 seconds) if power on, otherwise it cannot be operated normally. b.If there is no power output and the red light of ESC flashes quickly after power on, it means that the actual throttle of radio is not at the neutral position, move the throttle to the neutral position until the red light does not flash.

c.If the rotation direction is not correct during running, exchange the two wires connecting motor and ESC.

d.To make sure everything is ok, please turn on the radio first and finally turn on the ESC, turn off the ESC first and finally turn off the radio.

3.Description of LED status during driving:

- The red LED of ESC extinguishes when the throttle trigger is at the neutral position.
- The red LED quickly flashes when move forward; the red LED is constantly on when the throttle is at the end position of forward(100% throttle).
- · The red LED quickly flashes when reversing.

Note: Please refer to the relevant sections of FS-HW-G4P manual for details about the battery type, drag brake force and running mode of the ESC.

失控保护 Failsafe

此功能用于当接收机无法正常收到发射机的信号不受控制时,保护模型和操作人员的安全。 该接收机默认已设置失控保护为失控后接收机无信号输出。

This function protects the user by preventing the model from behaving unexpectedly if signal is lost. The transmitter is default set as no signal output when facing malfunction as the Failsafe Protection.

▶ 注意事项:

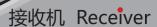
- 使用前必须确保本产品与模型安装正确,否则可能导致模型发生严重损坏。
- 请查看各动力设备以及车架说明书,确保动力搭配合理,避免因错误的搭配导致动力系统损坏。
- 勿使系统的外部温度超过90°C/194°F,高温将会毁坏动力系统。
- 关闭时,请务必先关闭接收机电源,然后关闭发射机。如果关闭发射机电源时接收机仍然在工作,将有可能导致遥控设备失控或者引擎继续工作而引发事故。
- 使用完毕后,若长时间不玩车,切记断开电池与电调的连接。如电池未断开,即使电调开关处于关闭状态,电调也会一直消耗电能(只是非常小),长时间连接电池最终会被过放,进而导致电池或电调出现故障。我们不对因此而造成的任何损害负责!
- 确保接收机安装在远离电机或电子噪声过多的区域。
- 接收机天线需远离导电材料,例如金属棒和碳物质。为了避免影响正常工作,请确保接收机天线和导电材料之间至少有1厘米以上的 距离。
- 准备过程中,请勿连接接收机电源,避免造成不必要的损失。

► Attention:

- Make sure the product is installed and calibrated correctly, failure to do so may result in serious injury.
- Please carefully check each power device and car frame instructions to ensure the power matching is reasonable before use. Avoid damaging power system due to incorrect matching.
- Do not let the external temperature of the system exceed 90°C /194 °F , because high temperature will damage the power system.
- Make sure the receiver's battery is disconnected before turning off the transmitter, failure to do so may lead to unintended operation or loss of control.
- After use, remember to disconnect the battery and the ESC. If the battery isn't disconnected, the ESC will consume electric energy all
 the time even if it is off. It will discharge completely if connect the battery for a long time, thus resulting in the failure of the battery or the
 ESC. We are not responsible for any damage caused by this!
- Make sure the receiver is mounted away from motors or any device that emits excessive electrical noise.
- Keep the receiver's antenna at least 1cm away from conductive materials such as carbon or metal.
- Do not power on the receiver during the setup process to prevent loss of control.



FLYSKY HW-711



认证相关 Certification

FCC Compliance Statement

This device 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.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 television 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.

EU DoC Declaration

Hereby, [Flysky Technology co., ltd] declares that the Radio Equipment [HW-711] 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.

RF Exposure Compliance

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.



FCC ID:N4ZHW711

