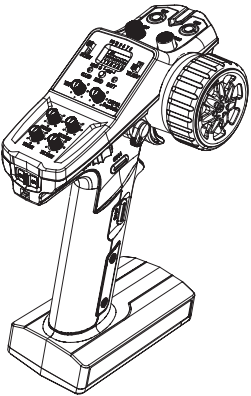


## Quick Start Guide 快速操作指南

# FS-MG11-BS

2.4GHz  
2A-BS



# FLYSKY



FCC ID: 2A2UNMG1100

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## FLYSKY

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如果您在使用中遇到任何问题,请先查阅发射机使用说明书。如果问题仍未得到解决,请直接联系当地经销商或者访问官网联系客服人员。

### 注意事项!

开始操作前请务必阅读以下安全信息!

- 请不要在夜晚或雷雨天气使用本产品,恶劣的天气环境有可能导致遥控设备失灵。
- 请不要在能见度有限的情况下使用本产品。
- 请不要在雨雪或有水的地方使用本产品。如果有液体进入到系统内部,可能会导致运行不稳定或设备失灵。
- 信号干扰可能导致设备失控。为保证您和他人的安全,请不要在以下地点使用本产品:



基站附近或其他无线电活跃的地方



人多的地方或道路附近



有客船的水域

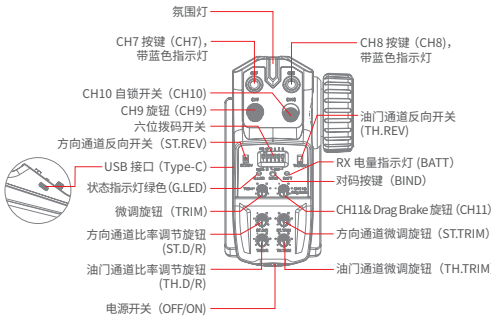
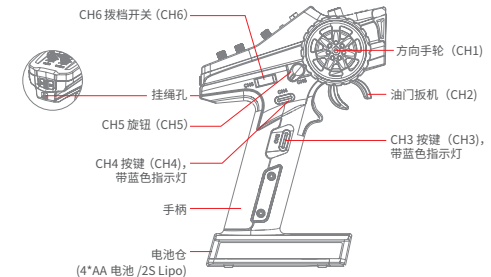


高压电线或通信广播天线附近

- 当你感到疲倦、不舒服,或在摄入酒精或服食导致麻醉或兴奋的药物后,不要操作本产品,否则可能对自己或他人造成严重的伤害。
- 2.4GHz 无线电波段完全不同于之前所使用的低频无线电波段。使用时请确保模型产品在您的视线范围内飞行,大的障碍物将会阻断无线电频率信号从而导致遥控失灵模型失控。
- 在使用过程中,严禁紧握手发射机天线,否则将会大大减弱无线电传播信号的质量和强度,导致遥控失灵模型失控。
- 在操作或使用模型后,请勿触摸任何可能发热的部位,如发动机、电机、定速设定等。这些部件可能非常热,容易造成严重的烧伤。
- 遥控设备使用不恰当可能导致操作者或他人严重受伤,甚至死亡。为保证您和设备的安全,请仔细阅读使用说明书并按照规定要求进行操作。
- 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。
- 操控时,请先确认模型所有舵机的动作方向与操控方向一致。如果不一致,请调整好正确的方向。
- 当遥控距离持续较远时,有发生失控的可能。请适当缩短遥控的距离。
- 特此,【Flysky Technology Co., Ltd.】声明无线电设备【FS-MG11-BS】符合 RED2014/53/EU. 欧盟 DoC 声明、FCC 声明可在以下互联网地址: [www.flyskytech.com/info\\_detail/10.html](http://www.flyskytech.com/info_detail/10.html) 获取。
- 安装于此发射机的天线必须与人保持至少 20cm 的距离,同时禁止将其用于其他发射机上,用户或者安装人员需要在满足 RF 相关协议的天线安装说明及发射机操作指南的指导下进行操作。

- 注意: 使用类型不正确的电池可能发生爆炸风险,请妥善处理使用完的电池。

### 发射机概览



### 基本操作

#### AA 电池安装

请按照以下步骤安装 AA 电池:

- 打开电池仓盖 (如图所示);
- 将 4 颗电量充足的电池按标注的极性方向装入电池仓内;
- 盖好电池仓盖。

#### LiPo 锂电池安装

请按照以下步骤安装锂电池:

- 打开电池仓盖。
- 将 2S 电量充足的锂电池放入电池仓内,
- 将电池连接线接入 JST 接口,确保正确连接正负极;
- 盖好电池仓盖,注意不要夹到电池连接线。

#### 开机

请按照以下步骤打开发射机:

- 检查系统状态,确保电池电量充足且安装正确;
- 将电源开关拨到 [ON] 位置, G.LED 指示灯常亮,氛围灯和 BATT 指示灯亮 3 秒后灭。

#### 对码

本发射机和接收机在出厂前已对码成功。若需使用其他的接收机,请按照如下步骤进行对码。本发射机支持双向对码,对码步骤如下:

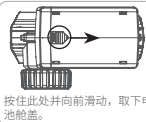
- 将发射机按住对码按键 (BIND) 开机即进入对码状态,此时 G.LED 指示灯快闪,松开对码按键;
- 接收机上电等待 1 秒没有连接即自动进入对码状态,此时接收机 LED 快闪;
- 对码成功后,接收机 LED 指示灯及发射机 G.LED 指示灯常亮;
- 检查发射机、接收机是否正常工作。如需重新对码,请重复以上步骤。

注: 此对码步骤仅适用于 FS-MG11-BS 发射机与 FS-R11D-ESC-BS 接收机对码; FS-MG11-BS 发射机采用 2A-BS 协议,只兼容该协议的接收机;不同的接收机对码方式不同,具体对码方式请访问 FLYSKY 官网查询接收机说明书或其他相关资料。

#### 摇杆校准

当油门、手轮和 CH5 旋钮发生机械性偏离,如回中或最大/最小行程出现偏差时,使用此功能修正。步骤如下:

- 同步将手轮顺时针打到最大、扳机往前推到底并开机,进入校准模式,发射机蜂鸣器响 3 声提示;
- 手轮校准: 将手轮分别按顺时针和逆时针方向转至最大和最小行程,发射机蜂鸣器响 2 声提示;
- 扳机校准: 将扳机分别向前和向后推至最大和最小行程,发射机蜂鸣器响 1 声提示;
- CH5 旋钮校准: 将 CH5 旋钮分别按顺时针和逆时针方向转到最大和最小行程,发射机蜂鸣器响 1 声提示;



1. 注意锂电池不要过充或过放。
2. 使用前请仔细阅读锂电池使用说明书。

## 自动跳频数字系统 FS-MG11-BS

5. 按 BIND 键退出并保存校准数据,发射机蜂鸣器长响 1 声提示。

若校准失败,按 BIND 键无反应,请重复以上校准步骤。

#### 失控保护

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。可在发射机端设置相应的失控保护值。默认未设置,未设置时 PWM 接口保持最后输出。设置步骤如下:

开机正常状态下,先操作需要设置失控保护的通道所对应的控件至预设的位置,再长按 BIND 键 3 秒,即将当下输出的通道值设置为失控保护值。设置成功时,蜂鸣器长响一声提示。

注:

1. 当发射机对码二合一接收机时,接收机 CH2 通道默认开启失控保护,失控后电调进入刹车模式。而其他通道可在发射机端设置相应的失控保护值,设置方法同上。
2. 重新对码时恢复默认设置。

#### 关机

请按以下步骤关闭发射机:

1. 先断开接收机电源;
2. 将电源开关拨到 [OFF] 位置,关闭发射机。

1. 关闭发射机之前,请务必先断开接收机电源,然后关闭发射机。如果强行关闭发射机,将会导致遥控设备失控,失控保护设置不合理可能引起事故。

### 规格参数

产品型号	FS-MG11-BS
适配接收机	FS-R11D-ESC-BS、FS-R11P-BS
适配模型	车
通道个数	11
无线频率	2.4GHz ISM
发射功率	<20dBm
无线标准	2A-BS
通道分辨率	4096 级
输入电源	1.5AA*4 或 2S 锂电池
工作电流	60mA 左右 /6V
低电压报警	AA 电池: <4.2V; LiPo 电池: <7.0V
天线类型	内置单天线
充电接口	无 (USB 接口仅做供电使用)
在线更新	无
数据输出	无
遥控距离	> 150m(空旷无干扰地面距离)
温度范围	-10°C ~ +60°C
湿度范围	20% ~ 95%
外形尺寸	135.7*189.5*82.7mm
机身重量	225g
外观颜色	黑色
安全认证	CE, FCC ID: 2A2UNMG1100

# FLYSKY

Thank you for purchasing the products of Flysky! To find out more about our products, visit our website at [www.flysky-cn.com](http://www.flysky-cn.com). If you encounter any problems during using, please refer to the manual first. If the problem is still not resolved, consult your local dealer directly or contact the customer service staff via Flysky official website.

## Precautions

Read the safety messages listed below before operation!

- Do not use the product at night or during bad weather conditions, like rain or thunderstorms. It can cause erratic operation or loss of control.
- Do not use the product when visibility is limited.
- Do not expose the product to rain or snow. 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:

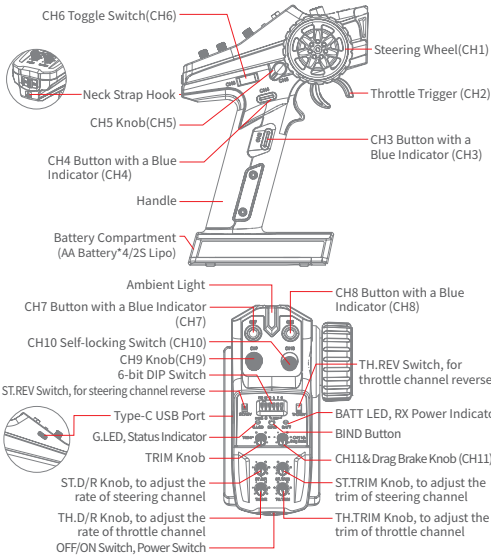


- Do not use this product when you are tired, uncomfortable, or under the influence of alcohol or drugs. Doing so may cause serious injury to yourself or others.
- The 2.4GHz radio band is limited to line of sight. Always keep your model in sight as a large can block the RF signal and lead to loss of control.
- Never grip the transmitter antenna during operation. It significantly degrades signal quality and strength and may cause 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 carefully.
- Make sure the product is properly installed in your model. Failure to do so may result in serious injury.
- Ensure that all servos operate in the correct direction. If not, adjust the direction first.
- Make sure that the model stays within range in order to prevent loss of control.
- 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.

### CAUTION!

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

## Transmitter Overview

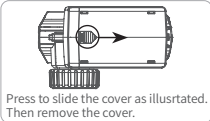


## Basic Operations

### Installing the AA Battery

Follow the steps below to install the AA batteries:

- Open the battery compartment cover as illustrated.
- Insert 4 fully-charged AA batteries into the compartment. Make sure that the batteries are well set according to the polarities marked on the battery compartment.



Press to slide the cover as illustrated. Then remove the cover.

- Replace battery compartment cover.

### Installing the LiPo Battery

Follow the steps below to install the LiPo battery:

- Open the battery compartment cover.
- Insert 2S fully-charged LiPo battery into the compartment.
- Plug the cable of LiPo battery into the JST Jack. Make sure to connect correctly according to the polarities marked on the battery compartment.
- Replace battery compartment cover. Be careful not to pinch the cable.

### Power on

Follow the steps below to turn on the transmitter:

- Check to make sure that the batteries are fully charged and installed correctly.
- Toggle the Power Switch to the ON position. The G.LED will be solid on, both the ambient light and the BATT LED will be on for 3 seconds, and then will be off.

### Binding

The transmitter and the receiver have been pre-bound before delivery. If you are going to use another receiver, follow the steps below to rebind. The transmitter supports two-way binding, the steps are as following:

- Turn on the transmitter while holding the BIND button, then the transmitter will enter the bind mode. At this time, the G.LED will start flashing quickly. Once in bind mode release the BIND button.
- Turn on the receiver, and it will wait for 1 second for connection. If without connection, the receiver will enter the bind mode automatically.
- Once the binding is successful, the receiver LED and the G.LED of the transmitter will be solid on.
- Verify that the transmitter and the receiver are working properly. If you need to re-bind, repeat the above steps.

Note: Applicable to the FS-MG11-BS transmitter and the FS-R11D-ESC-BS receiver; The FS-MG11-BS transmitter complies with the 2A-BS protocol and is only compatible with receivers conforming to this protocol; Different receivers have different bind procedures. For more information, visit FLYSKY official website for manuals and other related information.

### Stick Calibration

Use this function to correct for the mechanical deviation of the throttle trigger, steering wheel and CH5 knob, for example, deviation occurred in the self-centering or maximum minimum travel, the steps are as following:

- Turn and hold the steering wheel clockwise to the max travel point and push the throttle trigger forwards as far as possible, and at the same time turn on the transmitter, the transmitter will be in calibration mode, meanwhile, the buzzer will sound three times for prompt.
- Steering Wheel Calibration: Turn the steering wheel to the max and min travel point clockwise/counterclockwise respectively, and the buzzer will sound two times for prompt.
- Throttle Trigger Calibration: Push/pull the throttle trigger to forward/backward as far as it will go, and the buzzer will sound once for prompt.

- Don't overcharge or over discharge the LiPo battery.
- Read the instruction of the LiPo battery carefully before use.

- CH5 Knob Calibration: Turn the CH5 knob to its max and min travel point clockwise/ counter-clockwise respectively, and the buzzer will give a long beep.
  - Press the BIND button to save and exit in case of the calibration is successful, and the buzzer will give a long beep.
- If the calibration fails, pressing the BIND button is invalid. Repeat the steps above.

### Failsafe

The function is used to protect the model and personnel when the receiver is out-of-control. It can be set at the transmitter side. By default, it is not set, and the PWM interfaces will maintain the last output in case of out-of-control. The setting steps are as following:

In the normal power-on state, set the control corresponding to the channel to be configured with failsafe to the preset position. Meanwhile, press and hold the BIND button for 3 seconds to set the channel value of the current output to the failsafe value. The buzzer will give a long beep indicating that the setting is successful.

Notes: 1. When a 2-in-1 receiver has connected, the failsafe for CH2 is enabled by default. The ESC will enter the brake state when the receiver is out-of-control.

- Restore to the default setting in case of re-binding.

### Power Off

Follow the steps below to turn off the transmitter:

- Turn off the receiver first.
- Toggle the transmitter's Power Switch to the OFF position to turn off the transmitter.

- Make sure to power off the receiver before turning off the transmitter. Failure to do so can result out of control. Unreasonable setting of the Failsafe may cause an accident.**

## Specifications

Product Name	FS-MG11-BS
Compatible Receivers	FS-R11D-ESC-BS, FS-R11P-BS
Compatible Models	Car
Number of Channels	11
RF	2.4GHz ISM
Maximum Power	<20dBm (e.i.r.p.) (EU)
2.4G Protocol	2A-BS
Resolution	4096
Input Power	1.5AA*4 or 2S Lipo
Working Current	About 60mA/6V
Low Voltage Alarm	AA battery: <4.2V; LiPo battery: <7.0V
Antenna	Single Built-in Antenna
Charging Jack	None (The Type-C USB port is only used for power supply.)
Online Update	None
Data Output	None
Distance	> 150m(Ground Distance Without Interference)
Temperature Range	-10°C ~ +60°C
Humidity Range	20% ~ 95%
Dimensions	135.7*189.5*82.7mm
Weight	225g
Color	Black
Certifications	CE, FCC ID: 2A2UNMG1100

## Certifications

### 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 [ FS-MG11-BS] is in compliance with RED 2014/53/EU. The full text of the EU DoC is available at the following internet address: [www.flyskytech.com/info\\_detail/10.html](http://www.flyskytech.com/info_detail/10.html)

### RF Exposure Compliance

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

### 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: 2A2UNMG1100

Manufacturer: ShenZhen FLYSKY Technology Co., Ltd.

Address: 16F, Huafeng Building, No. 6006 Shennan Road, Futian District, Shenzhen, Guangdong, China

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