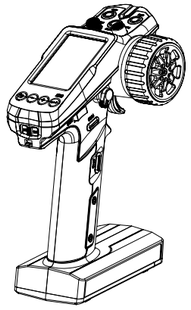
Quick Start Guide
快速操作指南

FS-MG11-BT-BS&
FS-R11P-BT-BS



FLYSKY

FCC ID: 2A2UNMG11OO

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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。

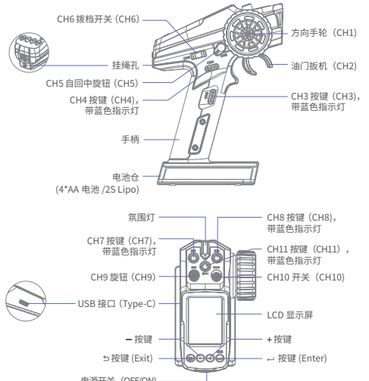
注意事项！

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：

- 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，【ShenZhen FLYSKY Technology Co., Ltd.】声明无线电设备【FS-MG11-BT-BS&FS-R11P-BT-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 获取。
- 此发射机所用天线的安装必须与所有人员保持距离，不得与任何其他发射机共用或一起使用。必须向最终用户和安装人员提供天线安装说明和发射机操作条件，以满足射频暴露合规要求。
- 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

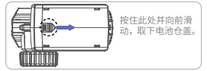


基本操作

AA 电池安装

请按照以下步骤安装 AA 电池：

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



LiPo 锂电池安装

请按照以下步骤安装锂电池：

1. 打开电池仓盖。
2. 将 2S 锂电池放入电池仓内，
3. 将电池导线接入 JST 接口；
4. 盖好电池仓盖，注意不要夹到电池导线。

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。

开机

请按照以下步骤打开发射机：

1. 检查系统状态，确保电池电量充足且安装正确；
2. 将电源开关拨到 [ON] 位置，氛围灯亮 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：

1. 将发射机按住 ↵ 开机即进入对码状态，此时 LCD 显示屏显示 "BINDING... "，松开 ↵ 按键；
2. 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；
3. 对码成功后，LCD 显示屏显示 "BIND OK"，接收机 LED 指示灯常亮；
4. 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-BT-BS 发射机与 FS-R11P-BT-BS 接收机对码；FS-MG11-BT-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 自回中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：

1. 同步将手轮顺时针打到最大、扳机往前推到底并开机，LCD 显示屏显示 "STK.CAL..."，按下 ↵ 进入校准模式，发射机蜂鸣器响 3 声循环提示；
2. 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 声循环提示；
3. 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 声循环提示；
4. CH5 自回中旋钮校准：将 CH5 自回中旋钮分别按顺时针和逆时针方向转到最大和最小行程，发射机蜂鸣器长响 1 声提示；
5. 按 ↵ 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 ↵ 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。

默认未设置：

- 接收机油门通道无论是否设置失控保护，失控后油门通道输出。
- 接收机其他通道保持最后输出。可在发射机端设置相应的失控保护值，设置步骤如下：

1. 按 ↵ 进入菜单界面，按 ← 或 + 选择 [F.SAFE] 后按 ↵；
2. 按 ← 或 + 选择要设置的通道，此时通道序号闪烁提示，按 ↵；
3. 按 ← 或 + 选择数值（百分比形式）；
4. 操作所选通道所对应的控件至预设的位置，按 ↵；
5. 按 ㄣ 退出。

模型设置

本发射机支持 20 组模型。可切换模型，更改模型名字以及复位模型数据。

切换模型，步骤如下：

1. 按 ↵ 进入菜单界面，然后按 ← 或 + 选择 [MODEL] 后按 ↵，此时模型序号闪烁提示；
2. 按 ← 或 + 选择合适的模型；
3. 长按 ↵ 即完成切换，蜂鸣器长响一声提示。

模型名字最多支持 5 位字符，若要更改模型名字，步骤如下：

1. 进入菜单界面 > [MODEL] 后按 ↵，此时模型序号闪烁提示；
2. 按 ↵，待更改的字符闪烁提示；
3. 按 ← 或 + 选择合适的字符后按 ↵，依次更改剩下的字符；
4. 按 ㄣ 退出。

注：当选中模型编号或模型名称时，长按 ↵ 可复位当前模型名称。

当处于 [MODEL] 界面下，并未选中任何项时，长按 ↵，此时 LCD 屏显示 "Reset?" ，若继续长按 ↵，可复位当前模型数据。

休眠模式

当发射机处于闲置报警状态时间大于 2 分钟时，即进入休眠模式。

在此模式下，发射机氛围灯为呼吸灯状态，蜂鸣器关闭，RF 关闭。

操作发射机任意控件无效，须重启发射机才可退出休眠模式。

蓝牙

可通过发射机蓝牙连接手机 app 进行设置发射机、接收机和连接接收机终端设备（如车灯模块等第三方设备）的功能参数。

注：

- 当手机 app 与发射机连接成功后，发射机界面显示相关图标。
- 发射机正常开机时，蓝牙自动开启；若手机 app 与发射机蓝牙未连接或断开时间较长，则需重启发射机以便开启蓝牙功能。
- 发射机蓝牙可兼容 Android 系统手机。
- 发射机蓝牙与 RF 的无线性能互不干扰，可以同时工作。
- 具体蓝牙功能使用方式请访问 FLYSKY 官网查询 FS-MG11-BT-BS 发射机说明书。

恢复出厂设置

恢复出厂设置功能可将发射机上所有设置以及功能返回至出厂默认值以及出厂默认状态。

按住 ↵ 和 ㄣ 通电开机，发射机显示屏 "Reset"，按 ↵ 即完成。

注：摇杆校准数据不复位。

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。

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-BT-BS
适配接收机	FS-R11P-BT-BS, 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
无线协议	2A-BS
通道分辨率	4096
输入电源	1.5AA*4 或 2S 锂电池
低电压报警	支持
天线类型	内置单天线
充电接口	无（USB 接口用于供电和升级发射机固件）
在线更新	有
数据输出	无
遥控距离	>300m（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*189.1*82.7mm
机身重量	236g
机身颜色	黑色
认证	CE，FCC ID: 2A2UNMG11OO

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Thank you for purchasing the products of Flysky! To find out more about our products, visit our website at 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!

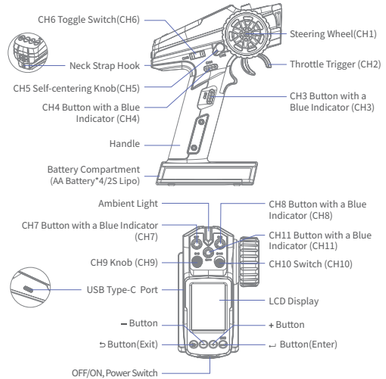
- Do not use the product at night or during bad weather conditions, like rain or thunderstorms. It can cause erratic operation or loss of control.
- Do not use the product when visibility is limited.
- Do not expose the product to rain or snow. Any exposure to moisture (water or snow) may cause erratic 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 ce warns that the installation of the antenna used in this transmitter must be kept in distance from all the personnel and shall not be used or used with any other transmitter. The end user and the installer must provide antenna installation instructions and transmitter operating conditions to meet the requirements for 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

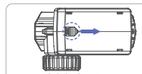


Basic Operations

Installing the AA Battery

Follow the steps below to install the AA batteries:

1. Open the battery compartment cover as illustrated.
2. 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.
3. Replace battery compartment cover.



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

Installing the LiPo Battery

Follow the steps below to install the LiPo battery:

1. Open the battery compartment cover.
2. Insert 2S LiPo battery into the compartment.
3. Plug the wiring of LiPo battery into the JST Jack.
4. Replace battery compartment cover. Be careful not to pinch the cable.

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

Powering On

Follow the steps below to turn on the transmitter:

1. Check to make sure that the batteries are fully charged and installed correctly.
2. Toggle the Power Switch to the ON position. The ambient light 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:

1. Turn on the transmitter while holding ↵, then the transmitter will enter the binding mode. At this time, the LCD display will show "BINDING... ". Once in binding mode release the ↵ button.
2. Turn on the receiver, and it will wait for 1 second for connection. If without connection, the receiver will enter the binding mode automatically. At this time, the receiver LED will be flashing fast.
3. Once the binding is successful,the LCD display will show "BIND OK " , the receiver LED and the Ambient Light of the transmitter will be solid on.
4. 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-BT-BS transmitter and the FS-R11P-BT-BS receiver; The FS-MG11-BT-BS transmitter complies with the 2A-BS protocol and is only compatible with receivers conforming to this protocol; Different receivers have different binding 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 self-centering knob, for example, deviation occurred in the self-centering or maximum minimum travel, the steps are as following:

1. 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 LCD display will show "SCK.CAL... ", then press ↵ to enter calibration mode, the buzzer will sound three times .
2. Steering Wheel Calibration: Turn the steering wheel to the max and min travel point clockwise/counterclockwise respectively, and the buzzer will sound two times cyclically.
3. Throttle Trigger Calibration: Push/pull the throttle trigger to forward/backward as far as it will go, and the buzzer will sound once cyclically.
4. CH5 self-centering Knob Calibration: Turn the CH5 self-centering knob to its max and min travel point clockwise/counter-clockwise respectively, and the buzzer will give a long beep.
5. Press ↵ 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 ↵ 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. By default, it is not set:

- Whether or not the receiver's CH2 is set for failsafe function, there is no output from the CH2 after the receiver is out-of-control.
- For the other channels, the interfaces will maintain the last output in case of out-ofcontrol. It can be set at the transmitter side. The setting steps are as following:

1. Press ↵ to access the menu, then select F.SAFE using - or + and press ↵ to enter.
2. Select a channel you want to set by using - or +, at this time the channel serial number blinks to indicate, then press ↵ to confirm.
3. Select value you want to set by using - or +.
4. Put the control corresponding to the channel to be configured with failsafe to the preset position, and meanwhile press ↵ to confirm.
5. Press ↻ to exit.

Model

The transmitter supports 20 models. The functions are used to switch models, change model names and reset model datas.

Switch models, the steps are as following:

1. Press ↵ to access the menu,then select MODEL using - or + and press ↵ to enter, at this time the model serial number blinks to indicate.
2. Select appropriate model by using - or +.
3. Long press ↵ to finsh,and the buzzer will give a long beep.

Model names support up to 5 characters, if you want to change model names, the steps are as following:

1. Press ↵ to access the menu,then select MODEL using - or + and press ↵ to enter, at this time the model serial number blinks to indicate.
2. Press ↵ , at this time the characters to be changed blinks to indicate.
3. Select appropriate character by using - or +, then press ↵ to change the remaining characters in order.
4. Press ↻ to exit.

Note:when the model name or model number is selected, long press ↵ to reset the current model name .
When in the [MODEL] interface and no item is selected, then long press ↵ , the LCD display will show "Reset? ".If you continue to long press ↵ , reset the current model data.

Sleep Mode

When the transmitter has been in idle alarm state over 2 minutes, it will enter the sleep mode.

In this mode, the amblient light will be in gradual light status, other indicators will be off, and the buzzer and RF will turn off.

Operating any control of the transmitter is invalid. To exit the sleep mode, power off the transmitter and restart it.

Bluetooth

You can set the function parameters of the transmitter, receiver and the terminal devices connected to the receiver (e.g. third-party devices such as car light module) by connecting to the phone app through Bluetooth.

Note:

- When the phone app is successfully connected to the transmitter, the transmitter interface displays the relevant icon.
- When the transmitter is turned on normally, Bluetooth will be turned on automatically; if the phone app is not connected to the Bluetooth of the transmitter or has been disconnected for a long time, it is necessary to restart the transmitter in order to turn on the Bluetooth function.
- Transmitter Bluetooth is compatible with Android phones.
- Transmitter Bluetooth and RF can work simultaneously.
- For more Bluetooth information, please visit FLYSKY official website for Transmitter manual.

Factory Reset

Factory Reset function resets all of the transmitter settings and functions back to their factory default state/data.

Press ↵ and ↻ , and at the same time turn on the transmitter. The LCD display will show "Reset" , then press ↻ to exit.

Note: Stick Calibration data does not reset.

Powering Off

Follow the steps below to turn off the transmitter:

1. Turn off the receiver first.
2. 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 Model	FS-MG11-BT-BS
Compatible Receivers	FS-R11P-BT-BS, 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)
RF Protocol	2A-BS
Resolution	4096
Input Power	1.5AA*4 or 2S Lipo
Low Voltage Alarm	Yes
Antenna	Single Built-in Antenna
Charging Jack	None (The USB Type-C port is used for power supply and upgrading transmitter firmware)
Online Update	Yes
Data Output	None
Distance	>300m(Ground Distance Without Interference)
Temperature Range	-10°C ~ +60°C
Humidity Range	20% ~ 95%
Dimensions	135.7*189.1*82.7mm
Weight	236g
Color	Black
Certifications	CE, FCC ID: 2A2UNMG11OO

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, [ShenZhen FLYSKY Technology Co., Ltd.] declares that the Radio Equipment [FS-MG11-BT-BS&FS-R11P-BT-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

RF Exposure Statement

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.

CAUTION

Risk of explosion if the battery is replaced an incorrect disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion; leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

FCC ID: 2A2UNMG11OO

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Figures and illustrations in this manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.