FLYSKY FS-R4D-ESC

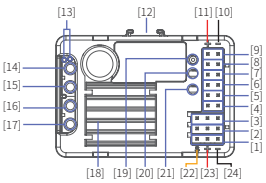
接收机 Receiver

产品介绍 Introduction

FS-R4D-ESC 采用 ANT 协议，是一款电调和 LED 灯组控制二合一接收机。外置单天线，可输出 PWM 信号和车灯控制信号，能够实现双向传输，采用自动对码，设计小巧紧凑，可在发射机端设置电调的相关参数，可适配多种车型使用。

FS-R4D-ESC is a 2-in-1 receiver which is compliable with the ANT protocol, featuring the compact design, external single antenna, automatic binding, a combination of the Electronic Speed Control (ESC) and LED light set control board. It outputs PWM signals and car light control signals, featuring two-way transmission, ESC parameters configurable at the transmitter side, and adaptation to a variety of car models.

接收机概览 Receiver overview



[1] CH1 通道接口
[2] CH3 通道接口
[3] CH4 通道接口
[4] 左车灯接口
[5] 右车灯接口
[6] 前大灯接口
[7] 后尾灯接口
[8] 氛围灯接口
[9] 车顶灯接口
[10] 车灯接口 "-" 极
[11] 车灯接口 "+" 极
[12] 电源开关挂耳
[13] 电源开关线
[14] 马达线 "+"
[15] 电源线 "+"
[16] 电源线 "-"
[17] 马达线 "-"
[18] 散热片
[19] 天线
[20] 接收机指示灯
[21] 电调指示灯
[22] 通道接口信号端
[23] 通道接口 "+"
[24] 通道接口 "-"

[1] CH1 Interface
[2] CH3 Interface
[3] CH4 Interface
[4] Left Turn Signal Light
[5] Right Turn Signal Light
[6] Headlight Interface
[7] Tail Light Interface
[8] Ambient Light Interface
[9] Roof Light Interface
[10] Car Light Interface "-"
[11] Car Light Interface "+"
[12] Tab for Hanging Power Switch
[13] Power Switch Cable
[14] Motor Cable "+"
[15] Power Cable "+"
[16] Power Cable "-"
[17] Motor Cable "-"
[18] Heatsink
[19] Antenna
[20] Receiver LED
[21] ESC LED
[22] CH Interface Signal Pin
[23] CH Interface "+"
[24] CH Interface "-"

车灯接口为标准 2.54mm*2Pin 排针 / The car light interface is a standard 2.54mm*2 Pins.

产品规格 Product specification

- 产品型号：FS-R4D-ESC
- 适配发射机：FS-HW-G4P 、FS-MG41、FS-G7P 或 FS-MG7 等（具体参见官网“发射接收配对表”）
- 适配模型：1/10 攀爬车、平路、越野短卡和卡车
- 通道个数：4
- 车灯接口数：6
- 无线频率：2.4GHz ISM
- 发射功率：< 20dBm
- 无线协议：ANT（蚂蚁版自动跳频数字系统）
- 天线类型：外置单天线（同轴天线）
- 输入电源：LiPo（2~3S）/NiMH(5~9Cell)
- BEC 输出：6V/3A
- 持续 / 峰值电流：40A/200A
- 支持电机类型：有刷电机
- 适用电机：550、540、390、370 或 280 有刷电机
- 数据输出：PWM
- 通道分别率：4096
- 温度范围：-10°C ~ +60°C
- 湿度范围：20% ~ 95%
- 遥控距离：>150 米（空旷无干扰地面距离）
- 防水等级：PPX7
- 在线更新：无
- 外形尺寸：44mm*30mm*16.7mm
- 机身重量：43g
- 认证： CE，FCC ID: 2A2UNR4DESC

- Product Name: FS-R4D-ESC
- Compatible Transmitters: FS-HW-G4P, FS-MG41, FS-G7P or FS-MG7, etc. (Refer to TX-RX FORM on the official website for details.)
- Compatible Models: 1/10 crawler, on-road car, off-road short course truck, and truck
- Number of Channels: 4
- Numbers of Light Interfaces: 6
- RF: 2.4GHz ISM
- Maximum Power: < 20dBm (e.i.r.p.) (EU)
- 2.4G Protocol: ANT
- Antenna: Single External Antenna
- Input Power: LiPo (2~3S)/NiMH(5~9Cell)
- BEC Output: 6V/3A
- Continuous/Peak Current: 40A/200A
- Motor Type: Brushed Motor
- Applicable Motors: 550, 540, 390, 370 or 280 Brushed Motor
- Data Output: PWM
- Resolution: 4096
- Temperature Range: -10°C ~ +60°C
- Humidity Range: 20% ~ 95%
- Distance: >150m(Ground Distance without Interference)
- Waterproof: PPX7
- Online Update: None
- Dimensions: 44mm*30mm*16.7mm
- Weight: 43g
- Certifications: CE, FCC ID: 2A2UNR4DESC

对码 Binding

本款接收机上电即自动进入对码状态。

1. 将发射机进入对码状态（发射机进入对码状态的方式可能不同，请根据发射机的使用说明书进行操作）；
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；
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：

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. First put the transmitter into binding mode. (See the transmitter's user manual for instructions on how to activate binding mode.)
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.
3. After the binding is successful, the receiver LED is solid on.
4. Verify that the transmitter and receiver are working properly. If you need to re-bind, repeat the above steps.

Notes:

1. Set the transmitter to its binding state first, and then set the receiver to its binding state. If the binding is not finished within 10S, the LED 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.

保护功能 Protection

本接收机具有电池电压过低和过高保护功能。

- 电压过低保护：当检测到电池电压过低时，CH2 马达通道无输出，所有车灯慢闪提示。
- 电压过高保护：当电池电压过高时，所有通道无输出，所有车灯快闪提示。

注：处于保护状态时，电调 LED 持续慢闪提示；待电压正常后，退出保护状态。

本接收机电调具有过热保护。

- 过热保护：当检测到电调内部温度过高时，CH2 马达通道无输出，所有车灯快闪提示；当温度正常后，通道恢复输出。

This receiver has low/high voltage protection function.

- Low Voltage Protection: When the voltage is detected to be low, CH2 has no output and all the car lights flash slowly.
- High Voltage Protection: When the voltage is detected to be high, all channels will not output. All the car lights flash fast.

Note: The ESC LED flashes slowly and continuously; When the voltage is normal, then the receiver will exit the protection state.

The ESC has overheating protection function.

- Overheating Protection: When the internal temperature of the ESC is detected to be too high, CH2 has no output and all the car lights flash fast. When the temperature is normal, the channel resumes output.

车灯控制 Car Light Control

本接收机支持 6 组车灯，分别是左转灯、右转灯、前大灯、后尾灯、氛围灯和车顶灯。

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。支持四种车灯工作模式：正常模式、运动模式、呼吸模式、爆闪模式。可通过快速短按 CH4 两次切换模式，可循环切换，默认正常模式。

车灯状态由发射机的相应控件控制。以 FS-HW-G4P 发射机端控制为例，具体如下所述：

控制状态	左转灯	右转灯	前大灯	后尾灯	4 通道控制	2 通道控制	车灯工作模式	备注
左转	慢闪	/	/	/	手轮：逆时针打手轮		正常模式 / 运动模式	/
右转	/	慢闪	/	/	手轮：顺时针打手轮		正常模式 / 运动模式	/
照明 / 示宽	/	/	常亮	低亮	CH3 三档开关 : 拨至右边，打开前大灯和后尾灯；拨到左边则关闭。	手轮 : 由中位逆时针快打两次 (重复此操作则关闭车灯)	正常模式 / 运动模式	/
前进	/	/	常亮	/	扳机：后扣扳机		运动模式	/
后退 / 刹车	/	/	/	常亮	扳机：前推扳机		正常模式 / 运动模式	/
应急	慢闪	慢闪	/	/	CH4 按键 : 按下 CH4 按键，左转灯和右转灯慢闪 (重复此操作则关闭车灯)	手轮 : 由中位顺时针快打两次 (重复此操作则关闭车灯)	正常模式 / 运动模式	/
呼吸	呼吸	呼吸	呼吸	呼吸	CH3 三档开关 : 拨至右边，所有车灯呼吸灯状态 ; 拨至左边则关闭所有车灯。	手轮 : 由中位逆时针快打两次（重复此操作则关闭车灯)	呼吸模式	所有车灯
爆闪	爆闪	爆闪	爆闪	爆闪	CH3 三档开关 : 拨至右边 , 所有车灯爆闪状态；拨至左边则关闭所有车灯。	手轮 : 由中位逆时针快打两次（重复此操作则关闭车灯)	爆闪模式	所有车灯

而氛围灯和车顶灯包含单独模式和组合模式两种工作模式。手轮由中位顺时针快打四次可以切换两种工作模式，可循环切换，默认单独模式。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。具体如下所述：

氛围灯和车顶灯工作模式	氛围灯状态及切换	车顶灯状态及切换	车灯工作模式
独立	呼吸 (手轮：由中位顺时针快打三次)	常亮 (手轮：由中位逆时针快打三次)	正常模式 / 运动模式
	爆闪	慢闪	
	三长闪一长灭	关闭	
	关闭	/	
组合	快闪（手轮由中位顺时针快打三次）		
	呼吸		
	关闭		

This receiver features 6 sets of lights: Left turn signal light(left light), right turn signal light(right light), headlight, tail light, ambient light and roof light. The car light control features four-channel control mode and two-channel control mode. Switching between the two control modes can be implemented by turning on the transmitter, turning the steering wheel clockwise to the maximum travel, and then turning on the receiver at the same time.

There are four modes/states of car light operation: Normal mode, sports mode, gradual mode and sharp flash mode. Quickly press CH4 button twice to switch the modes. By default, it works in normal mode. The state of all the car lights is controlled by the corresponding controls of the transmitter. Take FS-HW-G4P transmitter as an example, related description is as below.

Control State	Left Light	Right Left	Headlight	Tail Light	Four-channel Control	Two-channel Control	Mode	Note
Turn Left	Slow Flash	/	/	/	The control is steering wheel, turn the steering wheel counterclockwise, then the left turn signal light will flash slowly. Release the steering wheel to turn off it.		Normal Mode/ Sports Mode	/
Turn Right	/	Slow Flash	/	/	The control is steering wheel, turn the steering wheel clockwise, then the right turn signal light will turn on. Release the steering wheel to turn off it.		Normal Mode/ Sports Mode	/
Illumination/ Width	/	/	Solid ON	Low-luminance	Toggle the CH3 button to the right position, all lights are turned on. When toggle CH3 to the left position, all lights are turned off.	Turn the steering wheel from neutral position for two times counterclockwise quickly to turn on/off the light.	Normal Mode/ Sports Mode	/
Forward	/	/	Solid ON	/	Pull the throttle trigger backward to turn on the light, and release the throttle trigger to turn off the light.		Sports Mode	/
Backward/ Brake	/	/	/	Solid ON	Push the throttle trigger forward to turn on the light, and release the throttle trigger to turn off the light.		Normal Mode/ Sports Mode	/
Emergency State	Slow Flash	Slow Flash	/	/	Press the CH4 button. The left turn signal light and right turn signal light will flash slowly. To turn off the lights, press CH4 again.	Turn the steering wheel from neutral position for two times clockwise quickly to turn on/off the lights.	Normal Mode/ Sports Mode	/
Gradual State	Gradual State	Gradual State	Gradual State	Gradual State	Toggle the CH3 button to the right position, all lights are in the gradual light state. When toggle CH3 to the left position, all lights are turned off.	Turn the steering wheel from neutral position for two times counterclockwise quickly to turn on/off the lights.	Gradual Mode	All Lights
Sharp Flash State	Sharp Flash State	Sharp Flash State	Sharp Flash State	Sharp Flash State	Toggle the CH3 button to the right position, all lights are in the sharp flash state. When toggle CH3 to the left position, all lights are turned off.	Turn the steering wheel from neutral position for two times counterclockwise quickly to turn on/off the lights.	Sharp Flash Mode	All Lights

The ambient light and roof light can work in separate or combination modes. You can turn the steering wheel from neutral position for four times clockwise quickly to switch the two modes. By default, it works in separate mode.

In separate mode, the ambient light and the roof light can operate independently without interfering with each other. In combination mode, the ambient light and the roof light can be controlled in a unified manner to work together. The details are as follows:

Mode	Ambient light state and how to switch state	Roof light state and how to switch state	Mode
Separate Mode	Gradual State (Turn the steering wheel from neutral position for three times clockwise quickly to switch the four states.)	Solid ON (Turn the steering wheel from neutral position for three times counterclockwise quickly to switch the three states.)	Normal Mode/ Sports Mode
	Sharp Flash State	Slow Flash	
	Three-flash-one-off	OFF	
	OFF	/	
Combination Mode	Fast Flash (Turn the steering wheel from center for three times clockwise quickly to switch the two states.)		
	Gradual State		
	OFF		

电调功能说明及故障处理 ESC Function Instructions and Troubleshooting

本接收机电调功能支持在发机端设置电池类型设置、拖刹力度设置和运行模式 (正转 / 反转、正转反转刹车) 的设置详见 发机说明书相关章节。

马达连接后，接收机每次开机即自动识别油门中位位置。

- 当电调电池类型为锂电时，如使用 2S 锂电，则电调 LED 快闪 2 次（3 次代表 3S 锂电），马达快响两声（3 次代表 3S 锂电）；若为镍氢，则电调 LED 快闪一次，马达快响一声。
- 若中位校准通过，电调 LED 长闪 1 次，马达长响一声提示；若中位校准不通过，电调 LED 持续快闪，同时马达持续快响提示，此时马达无动力输出。

注：

1. 电调功能必须等到开机自检完成后方可运行（大约 3 秒），否则可能无法正常动作；
2. 若开机后无动力输出，且电调红色 LED 快闪，说明发射机实际油门不在中点位置。请微调油门中点直到电调 LED 不闪即可；
3. 若运行时发现电机转向不对，则可在发射机端将油门通道反向设置即可；
4. 为了一切正常，请养成先开发射机再接收机通电以及先接收机断电再关闭发射机的习惯；
5. 关于电调的电池类型设置、拖刹力度（0%、50%、75% 或 100%）设置和运行模式（正转 / 反转、正转 / 反转 / 刹车）的设置详见发射机 (FS-HW-G4P 、FS-MG41、FS-G7P 或 FS-MG7) 说明书相关章节。

电调处于正常工作状态时：

- 油门扳机处于中位时且无操作，电调 LED 常灭，马达无动力输出；
- 前进时，电调 LED 快闪；当油门处于正向最大（100% 油门）时，电调 LED 变成常亮；
- 油门处于反向最大（100% 刹车）时，电调 LED 变成常亮；
- 电调处于倒车状态或处于失控保护状态时，电调 LED 快闪提示。

This receiver ESC function supports the settings of battery type, drag brake and running mode (forward/reverse, forward/reverse/brake) at the transmitter side. See the FS-MG11-BS transmitter manual for details.

After the motor is connected, the receiver automatically recognizes the throttle neutral every time it is powered on.

- When the connected battery type is lithium-ion, such as 2S LiPo, the ESC LED flashes twice (three times for 3S LiPo), and the motor fast beeps twice (3 beeps represent 3S LiPo) ; If the battery of ESC is NiMH cells, then the ESC LED flashes quickly once, and the motor fast beeps once.
- After the calibration is successful, the ESC LED flashes once and the motor will give a long beep. If throttle neutral is not recognized, the motor will continue to beep quickly. There is no power output from the motor at this time.

Notes:

1. The ESC can be run after completing self-inspection (about 3 seconds) if power on, it may not be able to operate normally.
2. If there is no power output and the red ESC LED flashes quickly after power-on, it means that the throttle trigger of the transmitter is not at the neutral position, move the throttle trigger to the neutral position until the ESC LED does not flash.
3. If you find that the motor steering is not correct during operation, you can set the throttle channel in reverse at the transmitter side.
4. Normally, you must power on the transmitter and then receiver, and power off the receiver and then transmitter.
5. Refer to the relevant sections of the FS-HW-G4P, FS-MG41, FS-G7P or FS-MG7 user manuals for details about battery type, drag brake force and running mode of the ESC.

Description of LED status during normal operation

- The ESC LED is off when the throttle trigger is at the neutral position without any operation, and the motor has no output.
- The ESC LED quickly flashes when the vehicle moves forward, and is solid on when the trigger is at the end position of forward (100% or -100% throttle).
- The ESC LED quickly flashes when reversing or in failsafe state.

故障现象	可能原因	解决方法
上电后 , 指示灯不亮，电机无法启动	1. 电调没有得到工作电压 2. 接收机开关或电调损坏。	1. 检查电池与电调有无连接问题以及相关插头是否有虚焊情况； 2. 返厂检测处理。
上电后电调红色 LED 灯快速闪烁，电机无法启动	发射机油门通道的中点偏移或改变	调节发射机油门通道微调使之匹配电调现有中立点（直到红灯不闪）。
发射机做前进操作，车子反而倒退	1. 电调输出线和电机线的连接线序错误 2. 发射机油门方向设置错误。	1. 将电机的两条线互换位置即可； 2. 将发射机油门方向设置为相反方向。
电机转动过程中，突然停转	1. 油门信号丢失； 2. 电调进入电池低压保护或过热保护。	1. 检查发射机和接收机； 2. 电调红灯持续慢闪，请检查电池电压以及电调温度。
电机启动时急加速，电机有卡住或停顿的现象	1. 电池放电能力不够； 2. 电机转速过高，齿轮比搭配不合适。	1. 更换放电能力强的电池； 2. 更换低速电机，或将减速比提高。

Troubles	Possible Causes	Solutions
The motor cannot start and the LEDs are not on after power on.	1. The ESC has no working voltage. 2. The switch of ESC or ESC itself is damaged.	1. Check whether there is any connection problem between the battery and ESC and whether there is faulty welding of the relevant plug. 2. Return to factory for inspection and treatment.
The motor cannot start and the red ESC LED flashes quickly after power-on.	The neutral of throttle channel of transmitter is shift or changed.	Adjust the throttle channel of the transmitter to match the existing neutral point (until the red LED does not flash).
When forward the car by the transmitter, it reverse.	1. It may cause by the connection sequence between output line of ESC and motor line. 2.The throttle direction of transmitter is wrongly set.	1. Exchange the position of two lines of motor. 2. Set throttle direction of transmitter to the opposite direction.
The motor suddenly stops rotating during rotation.	1.The throttle signal is lost. 2.The ESC enters low/high voltage protection or overheat protection of battery.	1. Check the transmitter and the receiver. 2. The red ESC LED will flash slowly and continuously. Please check the battery voltage and the temperature of the ESC.
When the motor starts, it accelerates rapidly, and the motor is stuck or stops.	1. Battery discharge capacity is insufficient 2. The rotation speed of motor is too fast, the gear ratio is not reasonable.	1. Replace battery with strong discharge capacity. 2. Replace low speed motor, or increase the reduction ratio.

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。

- 接收机 CH1、CH3 和 CH4，可在发射机端进行相关设置，默认未设置；
- 接收机 CH2 通道（电调), 失控后进入刹车模式；
- 若处于应急灯状态，则失控后保持最后状态；若处于其他车灯模式，则失控后车灯全部关闭。

The failsafe function is used to output the channel value according to the out-of-control protection value set by the user after the receiver loses its signal and is out-of-control to protect the model and personnel.

- The failsafe setting on CH1, CH3 and CH4 of the receiver can be set at the transmitter side. "Not set" is the default setting.
- The CH2 (ESC), enters the braking state in case of out-of-control.
- If in emergency state, emergency lights keep last state in case of out-of-control. For other car light mode, all lights turn off in case of out-of-control.

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，将导致遥控设备失控。失控保护设置不合理可能引起事故。
- 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。
- 若在发射机端调整油门通道微调后，接收机须重新通电以识别新的油门通道中位，否则可能会出现倒车异常的现象。

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 can result out of control. Unreasonable setting of the Failsafe may cause accidents.
- 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.
- If the throttle trim is changed on the transmitter side, the receiver needs to be re-powered to recognize the new throttle neutral. Otherwise, an exception may occur during vehicle reversing.

认证相关 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-R4D-ESC] 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 Compliance

The distance between user and products should be no less than 20cm.

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.

微信公众号 Bilibili Website Facebook

FCC ID: 2A2UNR4DESC

本说明书中的图片和插图仅供参考，可能与实际产品外观有所不同。 产品设计和规格可能会有所更改，恕不另行通知。
Figures and illustrations in this manual are provided for reference only and may differ from actual product appearance. Product design and specificatiions may be changed without notice.

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