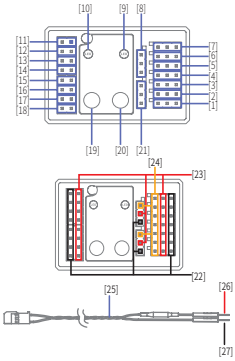
INr8-8D 接收机 Receiver

产品介绍 Introduction

INr8-8D 采用 AFHDS 3（第三代自动跳频数字系统），是一款多功能的 8 通道接收机。它具有外置单天线和固传功能，支持 4 个 Newport 功能接口（Newport 接口可自定义输入或输出的信号类型：i-BUS 2/S.BUS/i-BUS/PPM 等），提供 8 个功能接口（可在发射机端自定义 D1~D8 的输出内容及功能逻辑）。以 D1~D8 接口控制车灯为例，该设备既能作为带灯控功能的接收机正常使用，也能作为独立灯控板适配第三方接收机使用，或者作为 S.BUS/i-BUS out/PPM 信号转 PWM 转换器与第三方接收机兼容使用。

The INr8-8D adopts Flysky's third-generation automatic frequency hopping digital system (AFHDS 3) and is a versatile 8-channel receiver. It uses a single-antenna bidirectional transmission system, supporting 4 Newport function connectors (Newport connectors can be customized with the input or output signal types: i-BUS 2/S.BUS/i-BUS/PPM, etc.) and offering 8 function connectors (where D1~D8 outputs can be customized at the transmitter end for content and functional logic) . Taking the control of LED lights through D1~D8 connectors as an example, this device can be used as a receiver with lighting control functions, as a standalone LED light unit compatible with third-party receivers, or as an S.BUS/i-BUS out/PPM signal to PWM converter compatible with third-party receivers.

接收机概览 Receiver Overview



[1]-[4] CH1-CH4
[5] CH5(NPD)
[6] CH6(NPC)
[7] BVD/VCC（电池电压检测 / 供电接口）
[8] CH8(NPA)
[9] LED1
[10] LED2
[11] D8（雾灯）
[12] D7（氛围灯）
[13] D6（倒车灯）
[14] D5（刹车灯）
[15] D4（前大灯）
[16] D3（日行灯）
[17] D2（右转灯）
[18] D1（左转灯）
[19] 模式配置切换按键
[20] 对码按键
[21] CH7(NPB)
[22] -（电源地）
[23] +（电源正极）
[24] S（信号脚）
[25] BVD 功能配件
[26] 接电池正极
[27] 接电池负极

注：

- D1~D8: 当 INr8-8D 处于模式 2、3 时，固定分配上述车灯类型；当 INr8-8D 处于模式 1 时，默认分配上述车灯类型，但在发射机端可自定义车灯类型和相关参数。
- 模式配置切换按键：用于切换三种车灯接口默认配置（配置 1、配置 2 和配置 3）、切换三种接收机车灯功能模式（模式 1、模式 2 和模式 3）及复位接收机当前车灯配置。
- BVD 电压检测范围：0~70V

[1]-[4] CH1-CH4
[5] CH5(NPD)
[6] CH6(NPC)
[7] BVD/VCC (Battery Voltage Detection/Power Supply Connector)
[8] CH8(NPA)
[9] LED1
[10] LED2
[11] D8 (Fog Light)
[12] D7 (Ambient Light)
[13] D6 (Reverse Light)
[14] D5 (Brake Light)
[15] D4 (Headlight)
[16] D3 (Daytime Running Light)
[17] D2 (Right Turn Signal Light)
[18] D1 (Left Turn Signal Light)
[19] Mode and Configuration Switch Button
[20] BIND Button
[21] CH7(NPB)
[22] - (Power Cathode)
[23] + (Power Anode)
[24] S (Signal Pin)
[25] BVD Harness
[26] Connect to Battery Anode
[27] Connect to Battery Cathode

Notes:

- D1~D8: When the INr8-8D is in Mode 2 or Mode 3, the above light types are fixedly assigned; when the INr8-8D is in Mode 1, the above light types are assigned by default, but the types and related parameters of the lights can be customized on the transmitter.
- Mode and Configuration Switch Button: Used to toggle between three default light connector configurations (Configuration 1, Configuration 2, and Configuration 3), switch between three receiver light function modes (Mode 1, Mode 2, and Mode 3), and reset the current light configuration of the receiver.
- BVD voltage detection range: 0~70V

产品规格 Product specification

- 产品型号：INr8-8D
- 适配发射机：
  Noble NB4 Pro+ 等 AFHDS 3 协议发射机
  该接收机目前仅兼容 Noble NB4 Pro+ 发射机来修改车灯功能。
- 模式 2/ 模式 3 兼容性：
  FGr8B 等 AFHDS 3 协议接收机、FS-SR8 等 ANT 协议接收机、其他非富斯且具有 S.BUS 信号接口的接收机
- 适配模型：车
- PWM 通道数：8
- 发射功率：<20dBm
- 无线频率：2.4GHz ISM
- 无线协议：AFHDS 3
- 通道分辨率：4096 级
- 遥控距离：≥ 300 米（空旷无干扰地面距离）
- 天线类型：单天线
- 工作电压：3.5 ~ 9V /DC
- 数据输出：PWM/PPM/i-BUS2/S.BUS/i-BUS
- 温度范围：-10°C ~+60°C
- 湿度范围：20%~95%
- 固件更新：支持
- 外形尺寸：41*28.3*13.3mm
- 机身重量：12.2g
- 机身颜色：黑色
- 认证：CE，FCC ID: 2A2UNINR8D0

- Product Model: INr8-8D
- Compatible Transmitters:
  Noble NB4 Pro+ and other AFHDS 3 protocol transmitters
  This receiver is currently only compatible with the Noble NB4 Pro+ transmitter for modifying lighting functions.
- Mode 2/Mode 3 Compatibility:
  FGr8B and other AFHDS 3 protocol receivers, FS-SR8 and other ANT protocol receivers, other non-Flysky receivers with S.BUS signal connectors.
- Compatible RC Model: Car
- Number of PWM Channels: 8
- Maximum Power: <20dBm (e.i.r.p.) (EU)
- RF: 2.4GHz ISM
- RF Protocol: AFHDS 3
- Resolution: 4096
- Distance: ⩾ 300m (Ground distance without interference)
- Antenna: Single Antenna
- Operating Voltage: 3.5 ~ 9V /DC
- Data Output: PWM/PPM/i-BUS2/S.BUS/i-BUS
- Temperature Range: -10°C ~+60°C
- Humidity Range: 20%~95%
- Firmware Update: Yes
- Dimensions: 41*28.3*13.3mm
- Weight: 12.2g
- Color: Black
- Certification: CE, FCC ID: 2A2UNINR8D0

对码 Binding

本款接收机支持双向对码和单向对码（发射机端设置），双向对码完成后发射机将显示接收机回传的信息。

双向对码步骤：

1. 发射机选择双向通信，然后进入对码状态；
2. 本接收机支持三种方式进入对码状态：按键对码、通电后按键对码和对码线对码；
   - 按键对码：按住接收机对码按键同时上电，接收机 LED 1 灯快闪表示进入对码状态，松开对码键。
   - 通电后按键对码：接收机上电后未与发射机通信过，长按对码键 3 秒，接收机 LED 1 灯快闪表示进入对码状态，松开对码键。
   - 对码线对码：使用对码线将 BVD 和 CH5 信号脚短接，然后上电，接收机 LED1 灯快闪表示进入对码状态。
3. 接收机 LED1 灯常亮，即对码成功。发射机对码成功后自动退出对码状态，对码完成；
4. 检查发射机、接收机、模型是否正常工作。如需重新对码，请重复以上步骤。

单向对码步骤：

1. 发射机选择单向通信，然后进入对码状态；
2. 接收机进入对码状态（进入对码状态的方式请参考双向对码时描述）；
3. 接收机 LED 1 灯变为慢闪后将发射机退出对码状态，此时接收机 LED1 灯常亮，表示对码成功；
4. 检查发射机、接收机、模型是否正常工作。如需重新对码，请重复以上步骤。

The receiver supports two-way binding and one-way binding, and can be set at the transmitter side. The transmitter will display the information returned from the receiver after the two-way binding is completed.

Follow the steps below to bind in two-way binding:

1. Select Two WAY for RF standard of the transmitter, then put the transmitter in bind mode;
2. The receiver supports three ways to enter bind mode: BIND button binding, BIND button binding after power-on and bind cable binding:
   - BIND button binding: Press and hold the BIND button of the receiver while powering on the receiver, the LED1 of the receiver should be flashing, indicating that the receiver is in bind mode. Then release the BIND button.
   - BIND button binding after power-on: The receiver has not been connected to the transmitter when it is powered on. Press and hold the BIND button for 3 seconds, the LED1 of the receiver should be flashing, indicating that the receiver is in bind mode. Then release the BIND button.
   - Bind cable binding: Use a bind cable to connect the BVD and CH5 signal pins, then power on the receiver. The LED1 of the receiver should be flashing, indicating that the receiver is in bind mode.
3. When the LED1 of the receiver is solid on, the binding process should be finished. The transmitter exits the bind mode automatically;
4. Check to make sure the transmitter and receiver functions are working correctly, repeat steps 1 to 3 (binding process) if any problems arise.

Follow the steps below to bind in one-way binding:

1. Select One WAY for RF standard of the transmitter, then put the transmitter in bind mode;
2. Put the receiver in bind mode (Refer to the description above for entering bind mode);
3. After the receiver LED1 becomes slow flashing, then put the transmitter to exit the binding state. At this time, the receiver LED is solid on indicating the binding is successful;
4. Check to make sure the transmitter and receiver functions are working correctly, repeat steps 1 to 3 (binding process) if any problems arise.

固件更新 Firmware update

本接收机固件更新需通过富斯遥控管家（FlySkyAssistant）完成（仅 3.0 及以上版本支持，富斯遥控管家固件可从官网 www.flyskytech.com 获取）。

本接收机可以通过以下两种方式进入更新：

1. 先将发射机与接收机对码后（接收机 LED1 灯常亮），再将发射机与电脑连接，然后在电脑端打开富斯遥控管家，通过富斯遥控管家进行固件更新；
2. 将发射机与电脑连接，参考如下方式使接收机进入强制更新状态（接收机 LED 1 灯状态三闪一灭），然后在电脑端打开富斯遥控管家，通过富斯遥控管家进行固件更新。
   进入强制更新状态的操作方式有如下三种方式：
   - 按下对码按键，上电十秒钟后接收机 LED 1 灯状态三闪一灭，松开对码按键。
   - 先给接收机上电，长按对码键十秒后接收机 LED 1 灯状态三闪一灭，松开对码按键。
   - 使用对码线将 CH1 和 CH3 信号脚短接，然后上电，接收机 LED 1 灯状态三闪一灭。

固件更新 Firmware update

The firmware of this receiver can be updated via the FlyskyAssistant (Only version 3.0 or later is supported. The firmware of FlyskyAssistant is available on the Flysky official website: www.flysky-cn.com)
This receiver can be updated through the following two ways:

1. After the binding between the transmitter and the receiver (the LED1 of the receiver is solid on), connect the transmitter to the computer, then open the FlyskyAssistant on the computer to update the firmware.
2. Connect the transmitter to the computer. Then put the receiver to enter the forced update mode by referring to the following three ways (The LED1 of the receiver works in three-flash-one-off mode repeatedly). Afterwards, open the FlyskyAssistant on the computer to update the firmware.
   - Power on the receiver while pressing and holding the BIND button for more than ten seconds, until the LED1 of the receiver operates in three-flash-one-off manner repeatedly, then release the BIND button.
   - Power on the receiver first, then press and hold the BIND button for more than ten seconds, when the LED of the receiver operates in three-flash-one-off manner repeatedly, then release the BIND button.
   - Connect the signal pin of the CH1 connector to the signal pin of the CH3 connector, then power on the receiver.

失控保护 Failsafe

失控保护功能用于在接收机失去信号不受控制后，保护模型及操作人员的安全。

- 接收机 CH1~CH8 可在发射机端单独设置失控保护，共支持三种失控保护模式：[无输出]、[保持] 和 [固定值]。
  [无输出] PWM 通道接口为无输出状态；[保持] 输出失控前最后的通道值；
  [固定值] 输出设置的通道值。
  注：
  1. 对于 PPM/i-BUS/S.BUS/i-BUS2 等总线信号类型不允许单个或其中几个通道为 [无输出] 模式，通道设置为 [无输出] 模式时，实际信号是保持最后输出值；
  2. 因 S.BUS/i-BUS2 信号信息包含失控标志位，各通道失控保护设置被失控标志位传达给后续设备，若连接的设备支持失控标志位解析，则失控后，输出各通道设置的失控保护值；
  3. 对于无失控标志位的信号 PPM/i-BUS，支持设置失控时信号 [无输出] 模式。设置为 [无输出] 模式后，不管各通道失控保护如何设置，失控后各通道均为 [无输出] 模式。
- 接收机车灯接口（D1~D8）失控后保持最后的输出状态。

The failsafe function is used to protect the model and the safety of the operator in the event that the receiver loses its signal and is out of control.

- The failsafe setting on CH1~CH8 of the receiver can be set at the transmitter side, supporting three failsafe modes: [No Output], [Hold], and [Fixed Value].
  [No Output] It is no output for the connector of PWM. [Hold] Keeps the last output value.
  [Fixed Value] Outputs the failsafe values set for each channel.
  Notes:
  1. For bus signal types such as PPM/i-BUS/S.BUS/i-BUS2, a single or several of these channels are not allowed to be in [No output] mode. The actual signal is held at the last output value when the channel is set to [No output] mode.
  2. Because the S.BUS/i-BUS2 signal information contains failsafe flag bits, the failsafe settings of each channel are communicated to subsequent devices by the failsafe flag bits. If the connected devices support the failsafe flag bit analysis, the failsafe values set for each channel are output after out of control.
  3. For the signal PPM/i-BUS without failsafe flag bits, it supports the setting of the signal to [No output] mode in case of out of control. After setting to [No output] mode, regardless of the setting of the failsafe of each channel, each channel will be in [No output] mode after out of control.
- The receiver's lighting connectors (D1~D8) maintain their last output state after out of control.

复位功能 Reset Function

此功能用于将接收机的三种车灯配置恢复至默认状态，且当前车灯配置恢复到配置 1。

操作步骤：

先给接收机上电，长按模式配置切换按键十秒后接收机 LED2 灯状态变为快闪，松开切换按键，即接收机处于复位状态。当 LED2 灯状态变为常亮时，表示接收机复位成功。

注：进行复位操作后需重新对码。

This feature is used to restore the receiver's three lighting configurations to their default states, and to revert the current lighting configuration back to Configuration 1.

Operation steps:

Power on the receiver, then press and hold the Mode and Configuration Switch Button for about ten seconds until the receiver's LED2 starts flashing rapidly.Release the button, and the receiver will enter the reset state.When the receiver's LED2 is solid on, it indicates that the receiver has been successfully reset.

Note: After performing the reset operation, the receiver needs to be re-bound with the transmitter.

车灯控制 LED light Control

本接收机支持八组车灯，可在发射机端设置车灯类型，可选择的车灯类型包括左转灯、右转灯、前大灯、后尾灯、刹车灯、倒车灯、氛围灯、日行灯、示宽灯、雾灯及其他。

每个车灯接口支持独立控制，其状态由 Noble NB4 Pro+ 发射机端设定并控制。

INr8-8D 配置切换

本接收机支持三种预设车灯接口默认配置，其中包括配置 1、配置 2 和配置 3，可通过短按模式配置切换按键来切换不同的车灯接口配置，三种配置可以循环切换，默认配置 1。

当切换到不同的配置下时，LED2 灯的闪烁方式如下：

- 配置 1：LED2 灯慢闪一次后长灭。
- 配置 2：LED2 灯慢闪两次后长灭。
- 配置 3：LED2 灯慢闪三次后长灭。

为了适应不同车灯的工作状态，建议参照以下车灯配置表进行相应的设置和调整。

车灯配置表

接口	车 灯	配置 1 (车灯亮度百分比: 80%)	配置 2 (车灯亮度百分比: 100%)	配置 3 (车灯亮度百分比: 50%)	备注
D1	左转灯	逆时针打手轮时车灯慢闪	逆时针打手轮时车灯快闪	逆时针打手轮时车灯慢闪	
D2	右转灯	顺时针打手轮时车灯慢闪	顺时针打手轮时车灯快闪	顺时针打手轮时车灯慢闪	
D3	日行灯	当在发射机端设置触发值为 [25%~75%] 时，操作 CH3 控件，则车灯常亮		车灯常亮	默认 CH3 控件控制车灯
D4	前大灯	当在发射机端设置触发值为 [>75%] 时，操作 CH3 控件，则车灯常亮			
D5	刹车灯	刹车或拖刹刹车时，前推扳机，车灯常亮			当在发射机端设置刹车功能为直接正反转（无刹车）且拖刹不亮灯时，扳机往前推即刹车灯不亮。默认 CH2 控件控制车灯
D6	倒车灯	倒车时，前推扳机，车灯常亮			默认 CH2 控件控制车灯
D7	氛围灯	当在发射机端设置触发值为 [>75%] 时，操作 CH4 控件，则车灯处于呼吸灯状态	当在发射机端设置触发值为 [>75%] 时，操作 CH4 控件，则车灯常亮	当在发射机端设置触发值为 [>75%] 时，操作 CH4 控件，则车灯处于呼吸灯状态	
D8	雾灯	当在发射机端设置触发值为 [>75%] 时，操作 CH5 控件，则车灯常亮			

注：除上述三种接收机预设车灯接口配置外，还可以在发射机端自定义接收机的车灯接口配置，可在发射机端设置车灯接口对应的车灯类型、模式、车灯亮度、控制通道、触发值、控制效果以及刹车功能设置。具体操作可参考发射机说明书。

This receiver supports eight sets of LED lights, and the type of LED lights can be set on the transmitter. The selectable types of LED lights include left turn signal light, right turn signal light, headlight, tail light, brake light, reverse light, ambient light, daytime running light, side marker light, fog light, and others.

Each LED light connector supports independent control, and its status is set and controlled by the Noble NB4 Pro+ transmitter.

INr8-8D Configuration Switching

This receiver supports three preset LED light connector default configurations, including Configuration 1, Configuration 2, and Configuration 3. Different LED light connector configurations can be switched by pressing the switch button briefly. The configurations can be cycled through, with Configuration 1 being the default.

When switching to different configurations, the flashing pattern of LED2 is as follows:

- Configuration 1: LED2 flashes once slowly and then stays off for a long time.
- Configuration 2: LED2 flashes twice slowly and then stays off for a long time.
- Configuration 3: LED2 flashes three times slowly and then stays off for a long time.

To accommodate the different operating states of LED lights, it is recommended to refer to the following LED light configuration table for the appropriate settings and adjustments.

LED light Configuration Table

Connector	LED light	Configuration 1 (LED light Brightness Percentage: 80%)	Configuration 2 (LED light Brightness Percentage: 100%)	Configuration 3 (LED light Brightness Percentage: 50%)	Note
D1	Left Turn Signal Light	When turning the steering wheel counterclockwise, the LED lights flash slowly.	When turning the steering wheel counterclockwise, the LED lights flash rapidly.	When turning the steering wheel counterclockwise, the LED lights flash slowly.	
D2	Right Turn Signal Light	When turning the steering wheel clockwise, the LED lights flash slowly.	When turning the steering wheel clockwise, the LED lights flash rapidly.	When turning the steering wheel clockwise, the LED lights flash slowly.	
D3	Daytime Running Light	When the trigger value is set to [25%~75%] on the transmitter, operating the CH3 control keeps the LED lights on continuously.		The LED lights remain on continuously.	By default, the CH3 control is assigned to control the LED lights.
D4	Headlight	When the trigger value is set to [>75%] on the transmitter, operating the CH3 control keeps the LED lights on continuously.			
D5	Brake Light	When braking or applying drag brakes, pushing forward on the throttle causes the LED lights to remain on continuously.			When the transmitter is set to [Forward And Reverse] (no brake) and [Drag Brake Without Lighting], the brake light will not on when pushing the throttle trigger forward. By default, the CH2 control is used to control the LED lights.
D6	Reverse Light	When reversing, pushing forward on the throttle keeps the LED lights on continuously.			By default, the CH2 control is used to control the LED lights.
D7	Ambient Light	When the trigger value is set to [>75%] on the transmitter, operating the CH4 control causes the LED lights to be in gradual light status.	When the trigger value is set to [>75%] on the transmitter, operating the CH4 control keeps the LED lights on continuously.	When the trigger value is set to [>75%] on the transmitter, operating the CH4 control causes the LED lights to be in gradual light status.	
D8	Fog Light	When the trigger value is set to [>75%] on the transmitter, operating the CH5 control keeps the LED lights on continuously.			

Note: In addition to the three preset LED light connector configurations on the receiver, you can also customize the LED light connector configurations of the receiver on the transmitter. You can set the type of LED lights, mode, brightness, control channel, trigger value, control effect, and brake function settings corresponding to the LED light connectors on the transmitter. For specific operations, please refer to the transmitter's manual.

接收机车灯功能模式 Receiver LED light Function Mode

本接收机支持三种接收机车灯功能模式：

模式 1

在此模式下，能作为带车灯控制的接收机使用。

此时，CH1-CH8 输出标准信号，实现车灯的正常控制。

模式 2

在此模式下，该设备可作为独立灯控板，主要与无 S.BUS/i-BUS/PPM 信号接口的第三方接收机搭配使用。

此时，CH1-CH8 接口可识别 PWM 信号输入，用于控制车灯。

模式 3

在此模式下，既能作为独立灯控板适配第三方接收机使用，又能作为 S.BUS/i-BUS out/PPM 信号转 PWM 转换器与第三方接收机兼容使用。

此时，NPA 接口可识别 S.BUS/i-BUS out/PPM 信号输入，用于解析并控制车灯，同时 CH1-CH7 输出 PWM 信号。

注：当接收机处于模式 2 下，PWM 频率范围为 50HZ~400Hz；当接收机处于模式 3 下，模式 3 PWM 固定输出频率为 380Hz。

接收机车灯功能模式切换：

长按模式配置切换按键 5 秒可以切换不同的模式，三种模式可以循环切换，默认模式 1。

当切换到不同的模式下时，LED2 灯的闪烁方式如下：

- 模式 1：LED2 灯一快闪一长灭。
- 模式 2：LED2 灯两快闪一长灭。
- 模式 3：LED2 灯三快闪一长灭。

无论接收机处于哪种模式，可通过与发射机重新对码或强制更新的方式将接收机车灯功能模式切换回模式 1。

上电后如果同时按住模式配置切换按键和对码按键，系统会优先进行对码操作，此时模式配置切换操作不会生效。

当 INr8-8D 处于模式 2 和模式 3 时，可参考以下使用方法。

注：当 INr8-8D 与接收机连接成功时，LED1 灯常亮。

模式 2

连接方式：

使用杜邦线将 INr8-8D 的每个通道接口（CH1~CH8）与接收机（兼容 AFHDS 3 协议、ANT 协议和其他非富斯接收机）的每个通道接口（前八个通道）一一对应连接。

以 INr8-8D 和 FGr8B 搭配使用为例：

如图所示，FGr8B 的 CH1 与 INr8-8D 的 CH1 相连，以此类推，其他通道也按图示一一对应连接即可。

用户还可自行准备 Y 线以连接舵机等设备。

注：如果与 INr8-8D 连接的接收机通道数量有限，发射机将只能控制相应数量的通道（如四通道对应控制 INr8-8D 的 CH1~CH4，六通道对应控制 INr8-8D 的 CH1~CH6），建议根据实际应用场景更换具有更多通道的接收机。

模式 3

连接方式：

- 与 AFHDS 3 协议的接收机连接：将 INr8-8D 的 NPA 接口（CH8）与接收机输出 i-BUS-OUT、S.BUS 或 PPM 接口连接。
- 与 ANT 协议的接收机连接：将 INr8-8D 的 NPA 接口（CH8）与接收机的 SERVO 接口连接。
- 其他非富斯接收机：将 INr8-8D 的 NPA 接口（CH8）与接收机输出 S.BUS 接口连接。

以 INr8-8D 和 FGr8B 接收机搭配使用为例：

如图所示，FGr8B 的 Newport 接口与 INr8-8D 的 NPA 接口相连，其他协议接收机可参考此方式连接。

注：

- 与 AFHDS 3 协议的接收机连接时，需先在发射机端设置接收机 NewPort 接口的输出信号后再与 INr8-8D 连接。
- 在此模式下，发射机的 CH1~CH7 控件能够实现对 INr8-8D 以及与之相连的接收机的 CH1~CH7 通道的同步控制。

This receiver supports three LED light function modes for the receiver:

Mode 1

In this mode, it can be used as a receiver with LED light control.

At this time, CH1-CH8 output standard signals to achieve normal control of the LED lights.

Mode 2

In this mode, the device can be used as a standalone LED light unit, primarily adapted with third-party receivers that do not have S.BUS/i-BUS/PPM signal connectors.

At this time, the CH1-CH8 connectors can recognize PWM signal input for controlling the LED lights.

Mode 3

In this mode, it can be used both as a standalone LED light unit compatible with third-party receivers and as an S.BUS/i-BUS out/PPM signal to PWM converter compatible with third-party receivers.

At this time, the NPA connector can recognize S.BUS/i-BUS out/PPM signal input for parsing and controlling LED lights, while CH1-CH7 output PWM signals.

Note: When the receiver is in Mode 2, the PWM frequency range is 50Hz to 400Hz; when the receiver is in Mode 3, the PWM output frequency in Mode 3 is fixed at 380Hz.

Receiver LED light Function Mode Switching:

Press and hold the Mode and Configuration Switch Button for 5 seconds to switch between different modes; the three modes can be cycled through, with Mode 1 being the default.

When switching to different modes, the flashing pattern of LED2 is as follows:

- Mode 1: The LED2 status changes to Flash-once and OFF-once state.
- Mode 2: The LED2 status changes to Flash-twice and OFF-once state.
- Mode 3: The LED2 status changes to Flash-three-times and OFF-once state.

No matter which mode the receiver is in, you can switch the receiver's LED light function mode back to Mode 1 by re-binding with the transmitter or by forcing an update.

If both the Mode and Configuration Switch Button and the bind button are held down simultaneously after powering up, the system will prioritize the binding operation, and the Mode and Configuration Switch Button operation will not take effect.

When the INr8-8D is in Mode 2 and Mode 3, you can refer to the following methods of use.

Note: When the INr8-8D is successfully connected to the receiver, LED1 will solid on.

Mode 2

Connection Method:

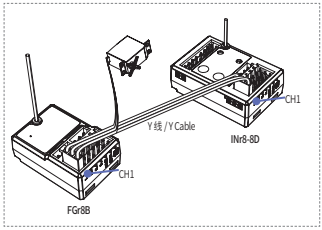
Use Dupont wires to connect each channel connector (CH1~CH8) of the INr8-8D to the corresponding channel connectors (the first eight channels) of the receiver (compatible with AFHDS 3 protocol, ANT protocol, and other non-Flysky receivers) one by one.

Taking the combination of INr8-8D and FGr8B as an example:

As shown in the diagram on the right, FGr8B's CH1 is connected to INr8-8D's CH1, and so on; other channels are connected one-to-one according to the diagram.

Users can also prepare Y cables to connect servos and other devices.

Note: If the number of channels on the receiver connected to the INr8-8D is limited, the transmitter will only be able to control the corresponding number of channels (for example, a four-channel receiver will control CH1~CH4 of the INr8-8D, and a six-channel receiver will control CH1~CH6 of the INr8-8D). It is recommended to replace the receiver with one that has more channels according to the actual application scenario.



Mode 3

Connection Method:

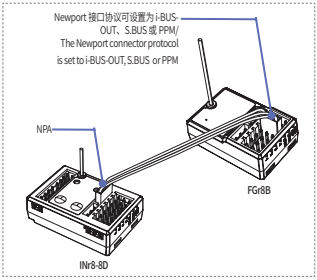
- Connection with receiver of AFHDS 3 protocol: Connect the NPA connector(CH8) of INr8-8D to the connector of receiver that can output i-BUS-OUT, S.BUS or PPM.
- Connection with receiver of ANT protocol: Connect the NPA connector(CH8) of INr8-8D to the SERVO connector of receiver.
- Other non-FlySky receivers: Connect the NPA connector(CH8) of INr8-8D to the connector of receiver that can output S.BUS.

Taking the combination of INr8-8D and FGr8B as an example:

As shown in the diagram on the right, the Newport connector of the FGr8B is connected to the NPA connector of the INr8-8D, and other protocol receivers can refer to this method for connection.

Notes:

- When connecting with a receiver that uses the AFHDS 3 protocol, you need to set the output signal of the receiver's Newport connector on the transmitter before connecting it to the INr8-8D.
- In this mode, the transmitter's CH1 to CH7 controls can achieve synchronized control over the CH1 to CH7 channels of both the INr8-8D and the connected receiver.



► 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。
- 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，将会导致遥控设备失控。失控保护设置不合理可能引起事故。
- 确保接收机安装在远离电机，电子调速器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.
- Make sure the receiver's battery is disconnected before turning off the transmitter, failure to do so lead to lose control. Unreasonable setting of the Failsafe may cause accidents.
- Make sure the receiver is mounted away from motors, electronic speed controllers 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.

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, [ShenZhen FLYSKY Technology Co., Ltd.] declares that the Radio Equipment [INr8-8D] 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

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.

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.

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FCC ID:2A2UNINR8D0

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