

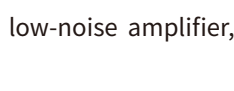
SEQUIRE ELRS 2.4GHz Dual RX Receiver 双天线接收机 说明书

感谢您购买本产品!请您在使用前仔细阅读说明书,严格遵守规定的操作说明,使用者需具备一定电子基础和良好的焊接技术,错误的使用可能造成人身伤害和设备损坏。我们不承担因使用本产品或擅自对产品进行改造而引起的任何责任,包括但不限于对附带损失或间接损失的赔偿责任。

Thanks for buying this product! Please read the instructions carefully before use and strictly abide by the specified operating instructions. Users must have a certain electronic foundation and good welding skills. Wrong use may cause personal injury and equipment damage. We do not assume any liability arising from the use of this product or unauthorized modifications to the product, including but not limited to liability for incidental or indirect losses.



1. English instruction manual 01 - 03
2. 中文说明书 04 - 06



1 PRODUCT DESCRIPTION

- High-performance ESP32-PICO-D4 master control, dual-frequency SX1281 chip, true diversity dual antenna receiver.
- High-frequency anti-interference, 2.4GHz frequency, strong signal penetration.
- High-speed data transmission, support F1000Hz and F500Hz ultra-high refresh rates, meet the low latency requirements of racing players.
- Onboard temperature-compensated crystal oscillator (TCXO), refuses ambient temperature to affect flight, maintains stable operation in high or cold environments, making flight safer.
- Integrated dual-channel high-power PA+LNA low-noise amplifier, 100mW (20dBm)*2 telemetry return, flight data return is more stable.
- Onboard RGB color indicator, quickly identify different working states.
- Support SH1.0-4P socket and 2.54-4P pad, two connection methods to meet various scenarios.

2 PRODUCT PARAMETERS

Model	SEQUIRE ELRS 2.4GHz Single RX
Factory Firmware	SEQUIRE 2.4GHz Single RX_3.4.0
MCU	ESP8285
RF Chip	SX1281
Crystal Oscillator Type	Temperature Compensated Crystal Oscillator (TCXO)
PA Power (Telemetry Power)	100mW (20dBm)
LNA	YES
Indicator Light	LED

Frequency Band	2.4GHz ISM
Protocol	CRSF
RF Mode	Single Antenna
Antenna Interface	Ipxe1
Receiver Interface	SH1.0-4P Connector, 2.54-4P Pad
Working voltage	5V
Weight	0.7g
Size	18*10.8*5mm

3 SIZE AND WEIGHT

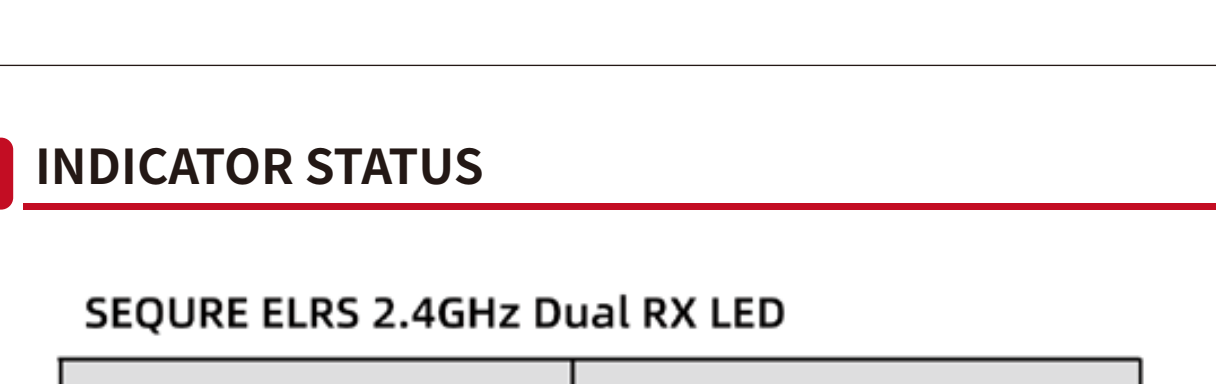


重量: 1.5g

ELRS 2.4GHz Dual RX Receiver

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4 WIRING DIAGRAM



5 INDICATOR STATUS

SEQUIRE ELRS 2.4GHz Dual RX LED

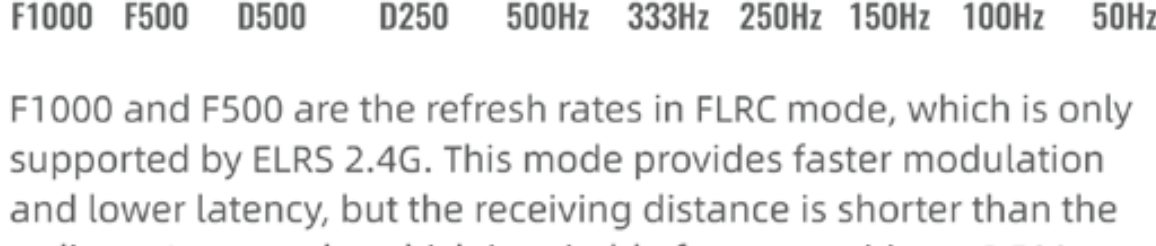
RGB light	Description
Color gradient	Power-on self-test
Orange double flash	Binding mode
Orange single flash	Waiting for remote control connection
Still on	Connected
Yellow and green alternating	WIFI mode



- Color gradient : Power-on self-test
- Orange double flash : Binding mode
- Orange single flash : Waiting for remote control connection
- Still on : Connected (Color represents refresh rate)
- Yellow and green alternating : WIFI mode

*RGB orange three flashes appear, you can enter the remote control SYS→TOOS→ ExpressLPS→ Model Match ON (ID:X), or set it to Model Match OFF(ID:X).

RGB colors corresponding to 2.4G refresh rate



F1000 and F500 are the refresh rates in FLRC mode, which is only supported by ELRS 2.4G. This mode provides faster modulation and lower latency, but the receiving distance is shorter than the ordinary Lora mode, which is suitable for competitions: D500 and D250 are the refresh rates in DVDA (Déjà Vu Diversity Aid) mode, which works at the F1000 refresh rate of FLRC mode, and provides a more reliable link connection in the presence of complex interference by sending the same data packet multiple times. D500 and D250 respectively indicate that the same data packet is sent repeatedly twice and four times.

About refresh rate settings:<https://www.expresslrs.org/quick-start/transmitters/lua-howto/?h=packet+rate+telemetry#packet-rate-and-telemetry-ratio>

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5 BETAFLIGHT RECEIVER SETTINGS

Please make sure that your flight control firmware has selected the "CRSF" protocol



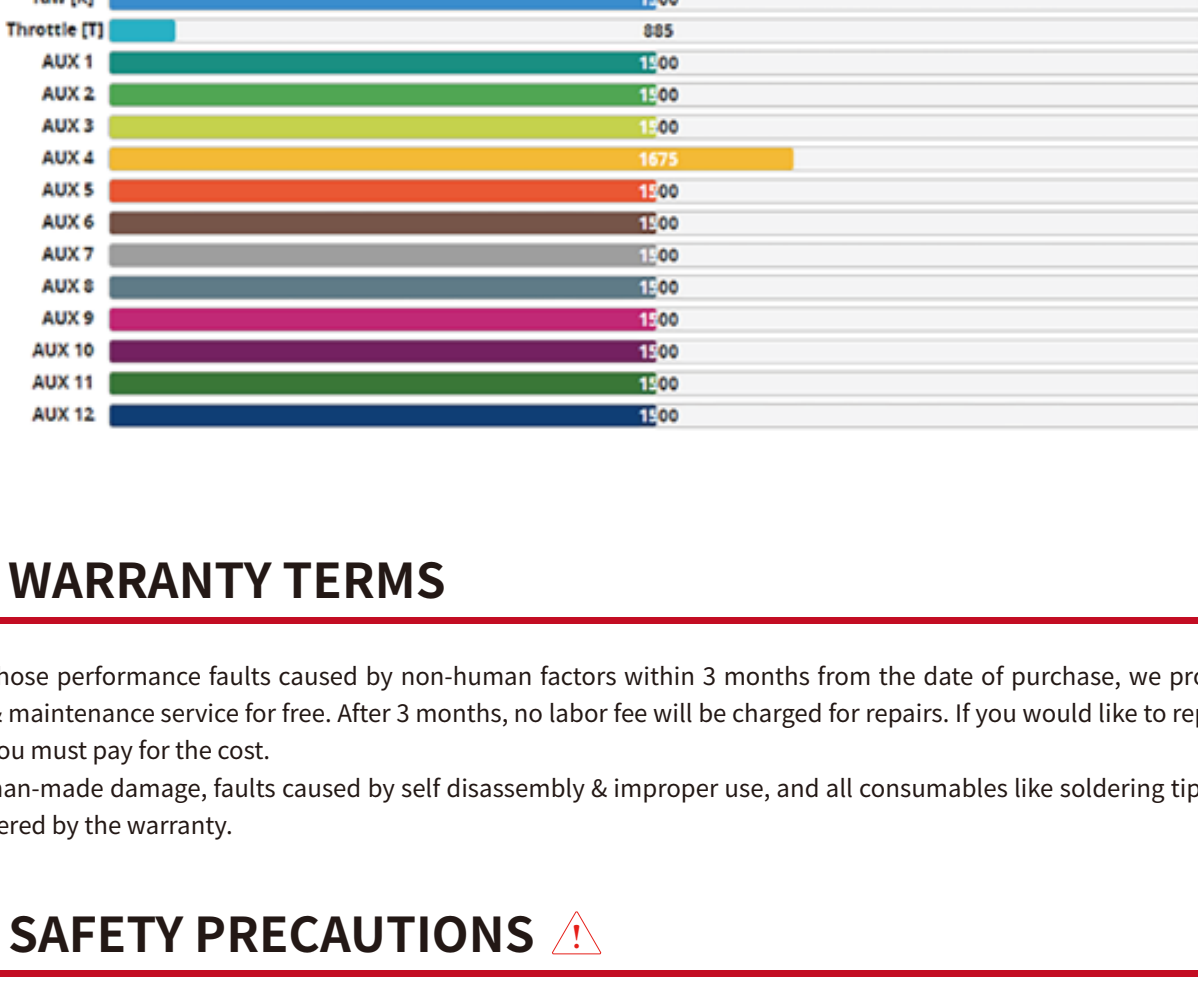
Open the Betaflight Configurator ground station, enter the "Port" page, Open the "Serial Digital Receiver" of the corresponding port, save and restart. (As shown in the figure)

Identifier	Configuration/MSP	Serial Rx	Telemetry Output
USB VCP	115200	Disabled	Disabled
UART1	115200	Enabled	Disabled
UART2	115200	Disabled	Disabled
UART4	115200	Disabled	Disabled

Enter the "Receiver" page, select "Serial Receiver (via UART)" in the drop-down menu of the receiver mode, select "CRSF" in the drop-down menu of the receiver protocol, and save.



If the flight control supports the CRSF protocol, the channel bar will be displayed in color; If it is gray, please flash the firmware to the CRSF protocol.



7 WARRANTY TERMS

1. For those performance faults caused by non-human factors within 3 months from the date of purchase, we provide repair & maintenance service for free. After 3 months, no labor fee will be charged for repairs. If you would like to replace parts, you must pay for the cost.
2. All man-made damage, faults caused by self disassembly & improper use, and all consumables like soldering tips are not covered by the warranty.

8 SAFETY PRECAUTIONS

- Please do not flash unofficial firmware to avoid damage to the ESC.
- Please do not use it beyond the ESC operating voltage and current range.
- Please check and make sure the positive and negative polarity are correct before powering on.
- Please use the product in compliance with local regulations and ensuring safety.
- Please use accessories that meet safety standards and store them out of reach of children.



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ELRS 2.4GHz Dual RX Receiver

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产品描述

- 采用高性能ESP32-PICO-D4主控，双频射SX1281芯片，真分集双天线接收机。
- 高频抗干扰性，2.4GHz频率，信号穿透力强。
- 高速数据传输，支持F1000Hz和F500Hz超高刷新率，满足竞速玩家低延迟需求。
- 板载温度补偿晶振(TCXO)，拒绝环境温度影响飞行，高温或寒冷环境都保持稳定工作，让飞行更安全。
- 集成双路大功率PA+LNA低噪声放大器，100mW (20dBm) *2遥测回传，飞行数据回传更稳定。
- 板载RGB彩色指示灯，快速识别不同工作状态。
- 支持SH1.0-4P座子和2.54-4P焊盘，两种连接方式，满足各种场景。

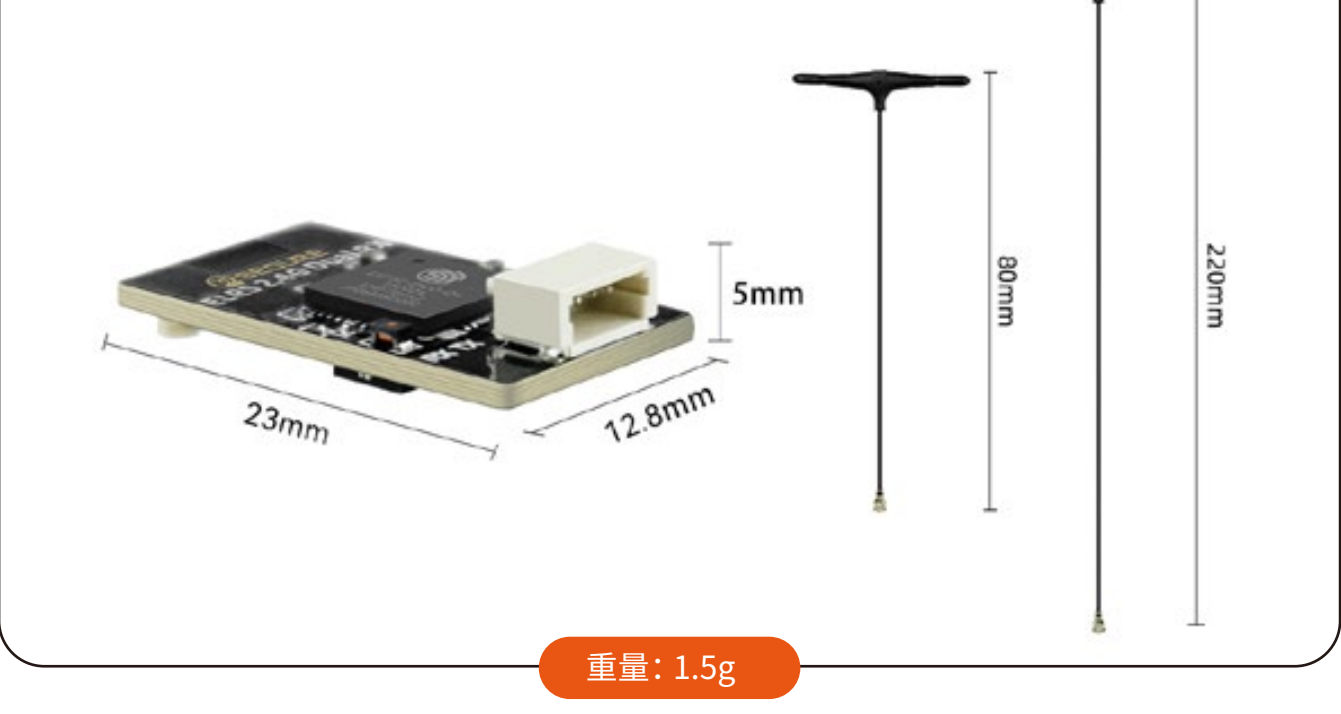
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产品参数

型号名称	SEQUIRE ELRS 2.4GHz Dual RX	频段	2.4GHz ISM
出厂固件	SEQUIRE 2.4GHz Dual RX_3.4.0	协议	CRSF
MCU	ESP32-PICO-D4	射频模式	Dual /True Diversity/真分集双天线
射频芯片	SX1281	天线接口	Ipex1
晶振类型	温补晶振 (TXCO)	接收机接口	SH1.0-4P连接座,2.54-4P焊盘
PA功率(遥测功率)	100mW (20dBm) * 2	工作电压	5V
LNA	YES	重量	1.5g
指示灯	彩色RGB灯	尺寸	23*12.8*5mm

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尺寸重量

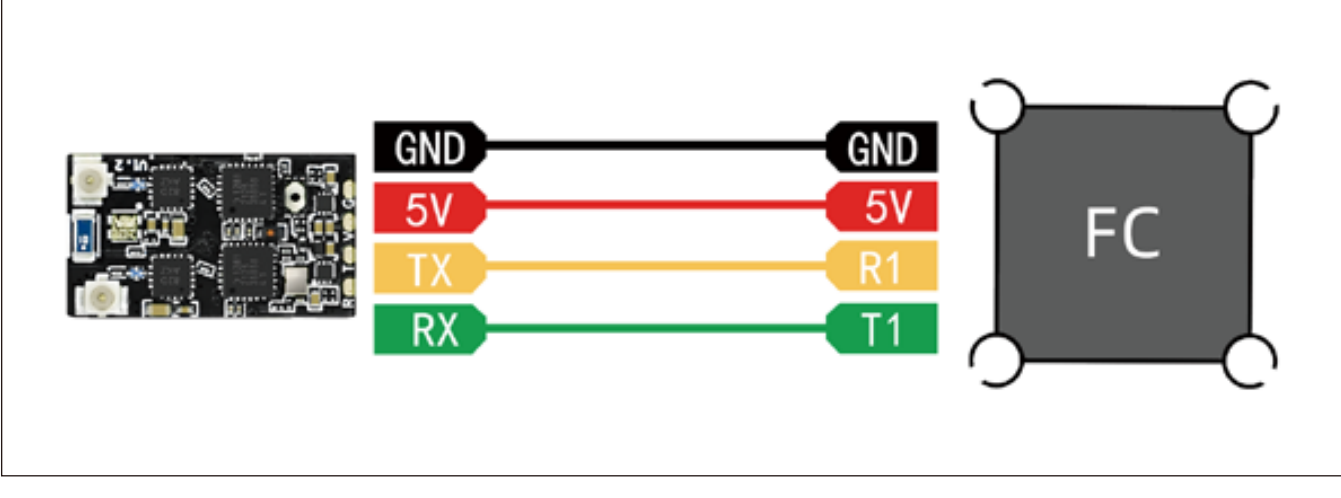


双天线接收机

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接线图



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指示灯状态

SEQUIRE ELRS 2.4GHz Dual RX LED

RGB灯	说明
彩色渐变	上电自检
橙色双闪	对频模式
橙色单闪	等待遥控器连接
常亮	已连接
黄绿交替	WIFI模式

彩色渐变●●●●●●：上电自检

橙色双闪●●●●：对频模式

橙色单闪●●：等待遥控器连接

常亮●——：已连接 (颜色代表刷新率)

黄绿交替●●●●：WIFI模式

*出现 RGB 橙色三闪，可以通过进入遥控器SYS→TOO5→ ExpressLP5 → Model Match ON (ID:X)，或者设置为 Model Match OFF(ID:X)。

2.4G 刷新率对应的 RGB 颜色

F1000和 F500 是 FLRC 模式下的刷新率，仅 ELRS 2.4G 支持该模式，该模式提供更快的调制和更低的延时，但接收距离比普通的 Lora 模式要短，适用于竞赛:D500 和 D250是DVDA (Déjà Vu Diversity Aid)模式下的刷新率，该模式工作在 FLRC 模式的F1000 刷新率下，通过多次发送相同的数据包在有复杂干扰的情况下提供更可靠的链路连接 D500和D250 分别表示将相同的数据包重复发送两次和四次。

关于刷新率的设置:<https://www.expresslrs.org/quick-start/transmitters/lua-howto/?h=packet+rate+telemetry#packet-rate-and-telemetry-ratio>

双天线接收机

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Betaflight接收机设置

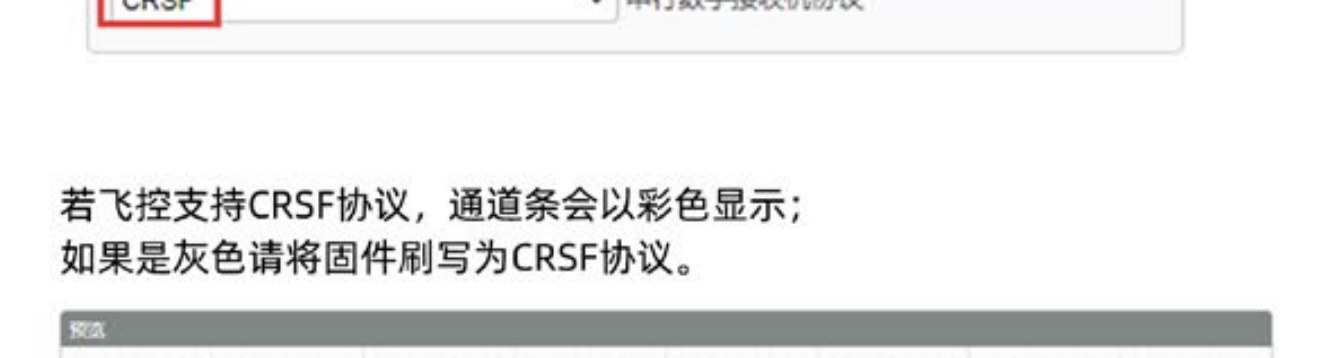
请确保您的飞控固件已选择使用 “CRSF” 协议

打开Betaflight Configurator地面站，进入“端口”页面，将对应端口的“串行数字接收机”打开，保存并重启。（如图）

标识符	设置/MSP	串行数字接收机	遥测输出
USB VCP	☒ 115200 ▼	☐	已禁用 ▼ AUTO ▼
UART1	☐ 115200 ▼	☒	已禁用 ▼ AUTO ▼
UART2	☐ 115200 ▼	☐	已禁用 ▼ AUTO ▼
UART3	☐ 115200 ▼	☐	已禁用 ▼ AUTO ▼

进入“接收机”页面，接收机模式下拉选择“串行接收机（通过UART）”，在接收机协议下拉选择“CRSF”，保存。

若飞控支持CRSF协议，通道条会以彩色显示；如果是灰色请将固件刷写为CRSF协议。



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保修条款

- (1)自购机之日起3个月内出现非人为因素造成的性能故障，厂家提供免费修理服务。3个月 after，修理不收取人工费，若更换配件，费用需用户承担。
- (2)一切人为损坏，自行拆机，使用不当造成的故障，不在保修范围。

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安全须知

- 请勿刷写非官方指定的固件，以免损坏电调。
- 请不要超过ESC工作电压，电流范围使用。
- 请在通电前检查并确保正负极性无误，才能通电使用。
- 请在符合当地法规和确保安全情况下使用产品。
- 请使用符合安全标准的配件，存放在儿童不容易接触的地方。

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