

SKYDROID 云卓

云卓科技（福建）有限公司



SKYDROID TR01 中继器

用户手册

V1.0

注意

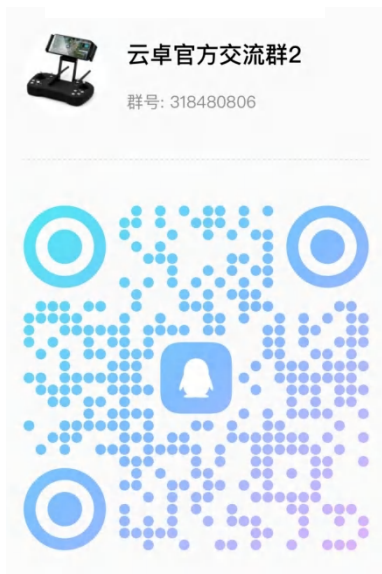
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注意：如果不遵循说明进行操作，可能会导致财产损失和轻微伤害。

注意：如果不遵循说明进行操作，可能会导致财产损失、重大事故和严重伤害。

警告：通过阅读整个用户手册，熟悉产品的功能之后再进行操作。如果没有正确操作本产品可能会对自身或他人造成严重伤害，或者导致产品损坏和财产损失。本产品较为复杂，需要经过一段时间熟悉后才能安全使用，并且需要具备一些基本常识后才能进行操作，如果没有强烈的安全意识，不恰当的操作可能会导致产品损坏和财产损失，甚至对自身或他人造成严重伤害。本产品不适合儿童使用。切勿使用非云卓提供或建议的部件，必须严格遵守云卓的指引来使用产品。

云卓官方 QQ 群



云卓官方微信群



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 - 2.本公司产品自购买之日起，一周内经我司核实为非人为造成的质量问题，由云卓承担返修产品的往返快递费，购买云卓产品一周以上一年以内经我司核实为质量问题，用户和云卓各自承担寄出返修产品的快递费。
 - 3.返修时需提供购买凭证和保修卡或网络平台交易记录。
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 - 5.云卓产品将由云卓科技（福建）有限公司提供终身售后服务，属于非人为造成的质量问题，一年内免费保修；对于自购买之日起人为的损坏、改装、拆机及超过一年免费保修期的，用户须支付往返邮费及维修费用。
 - 6.为确保您的权益受到保护，并能及时有效地为您服务，请在购买云卓产品时完整填写好保修卡及索要购机凭证。用户享受本售后服务条款必须提供保修卡及购机凭证。
 - 7.返修产品将于云卓公司收到后的 15 个工作日内寄回给顾客，并附上维修报告。
 - 8.以上售后服务条款仅限于中国大陆销售的云卓产品。
- 港澳台及海外客户的售后问题发至邮箱 sales01@skydroid.xin, 具体售后细则视情况而定。

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<http://www.skydroid.xin> 官方网站以获取最新的产品信息。

TR01 出厂前已完成调试，禁止自行拆解 TR01 或者改装本产品，任何针对本产品的不安全、不负责任的操作都有可能造成产品损坏，引起使用者或他人的经济损失甚至人身伤害。

注意：中继器只能用于 G 系列链路。

A) 环境温度：-10°C ~ 60°C

B) 贮存温度：-25°C ~ 60°C

C) 大气压力：86kPa~106kPa

D) 使用地点不允许有爆炸危险的介质，周围介质中不应含有腐蚀金属和破坏绝缘的气体及导电介质，不允许充满水蒸气及有严重的霉菌存在。

E) 使用地点应具有防御雨、雪、风、沙、灰的设施。

由于我公司无法控制用户的具体使用、安装、改装以及使用不当等情况。由以上所造成的直接、间接损失或损失，我公司将不承担相应的损失及赔偿责任。如使用、安装、组装云卓科技产品，相应的结果由用户承担。因使用本产品而造成的间接或直接损失与伤害，我公司概不负责。

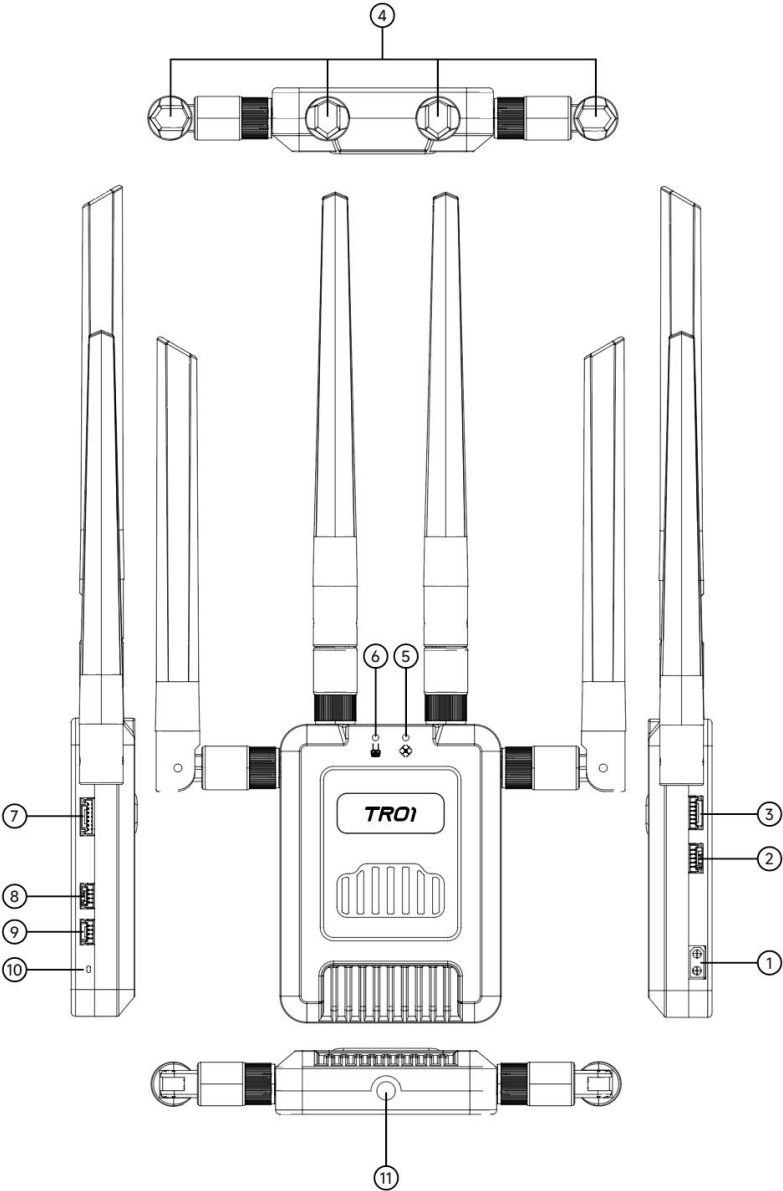
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一、 产品简介

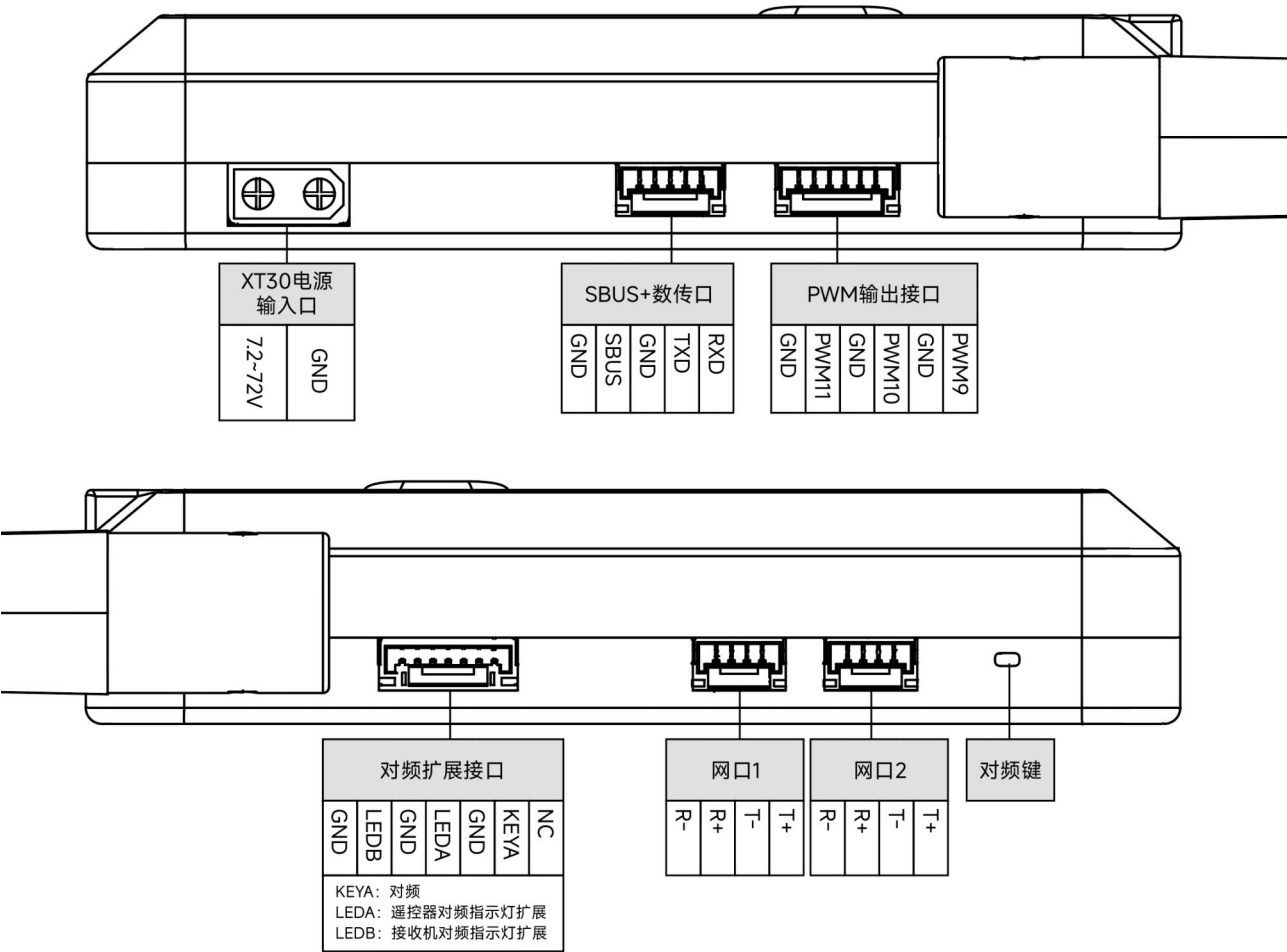
在复杂环境通信需求日益严苛的今天，云卓科技推出的新一代无人机双模中继器，以颠覆性的多协议融合技术，重新定义无人机通信的可能性。系统同时支持 2.4G/5.8G 双频段协同，在保障超视距传输的同时，中继器可设置接收机模式使用和切换中继模式实现空中中继，实现空中的无缝切换，彻底解决传统单一模式中继器的覆盖盲区与抗干扰瓶颈。

二、部件名称



序号	注解	序号	注解
1	电源输入口（7.2V~72V）	7	状态灯和对频扩展接口
2	数传接口+SBUS 输出	8	网口 1
3	PWM 输出	9	网口 2
4	SMA 外螺外针天线接口 2.4G/5.8G 双频天线	10	对频按钮
5	接收机对频指示灯	11	内螺丝孔（英制粗牙 1/4-20）
6	遥控器对频指示灯		

三、接口定义说明

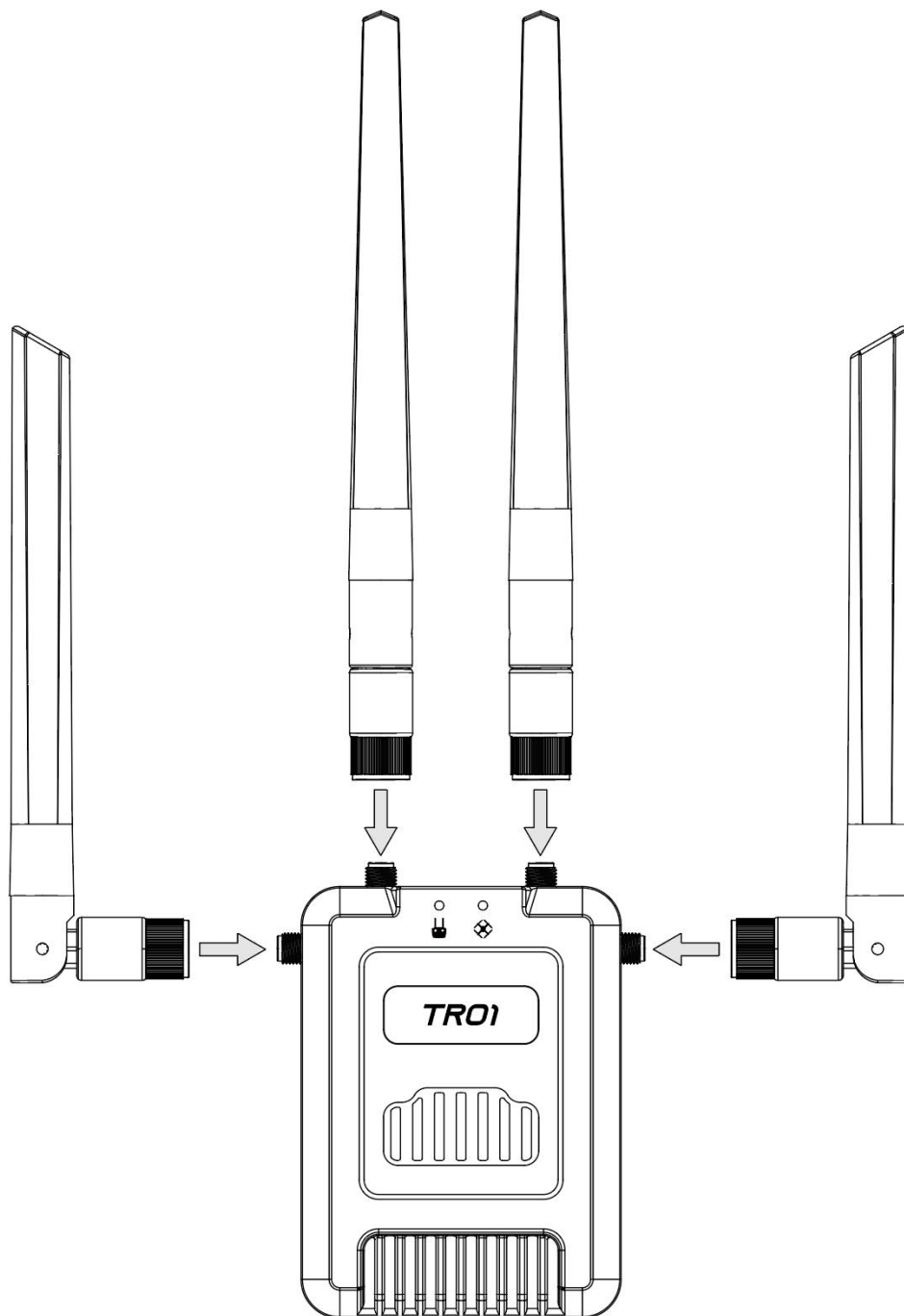


四、安装方式

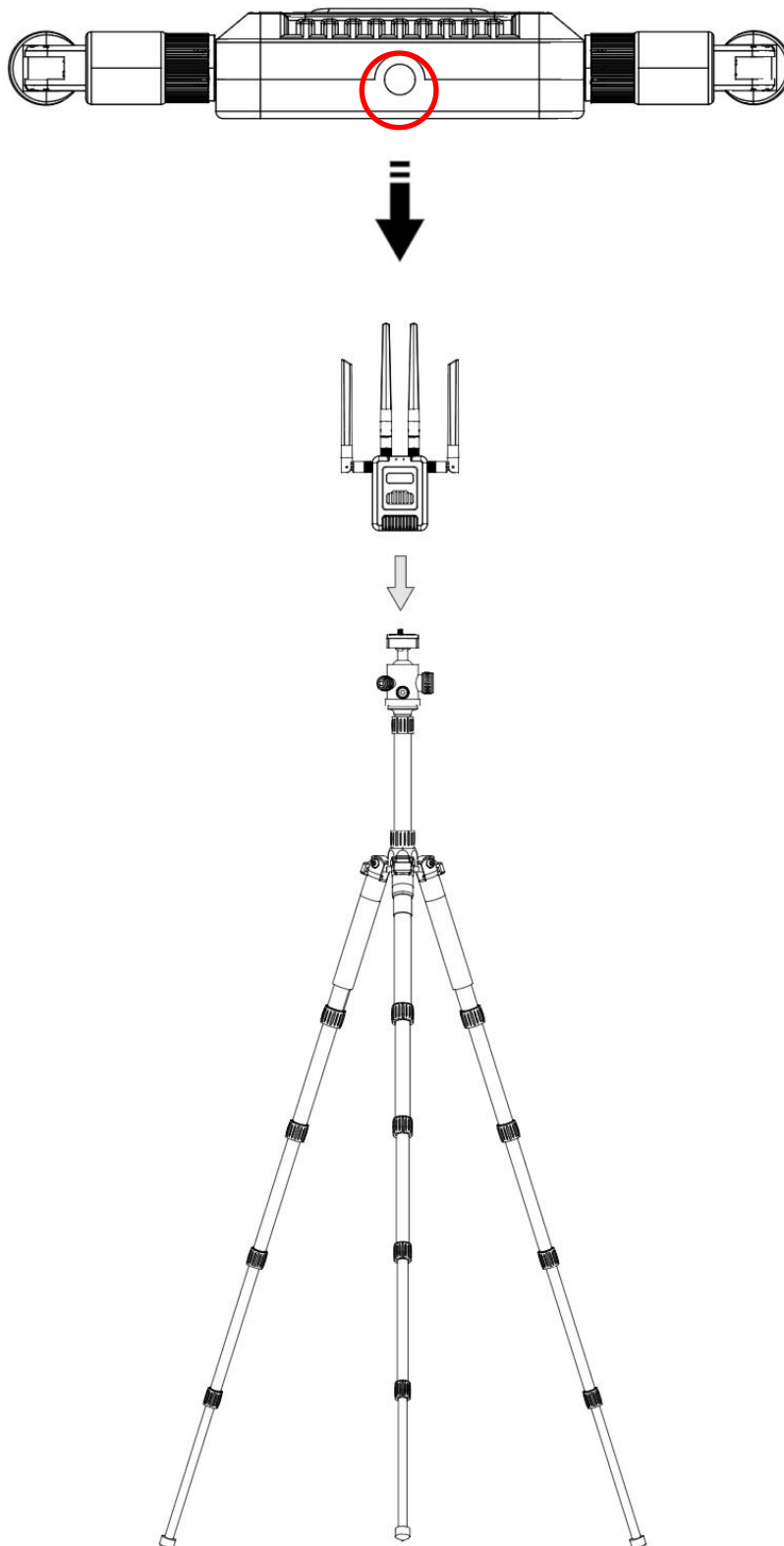
TR01 中继器有两种使用场景，建议安装方式如下：

1. 地面中继模式

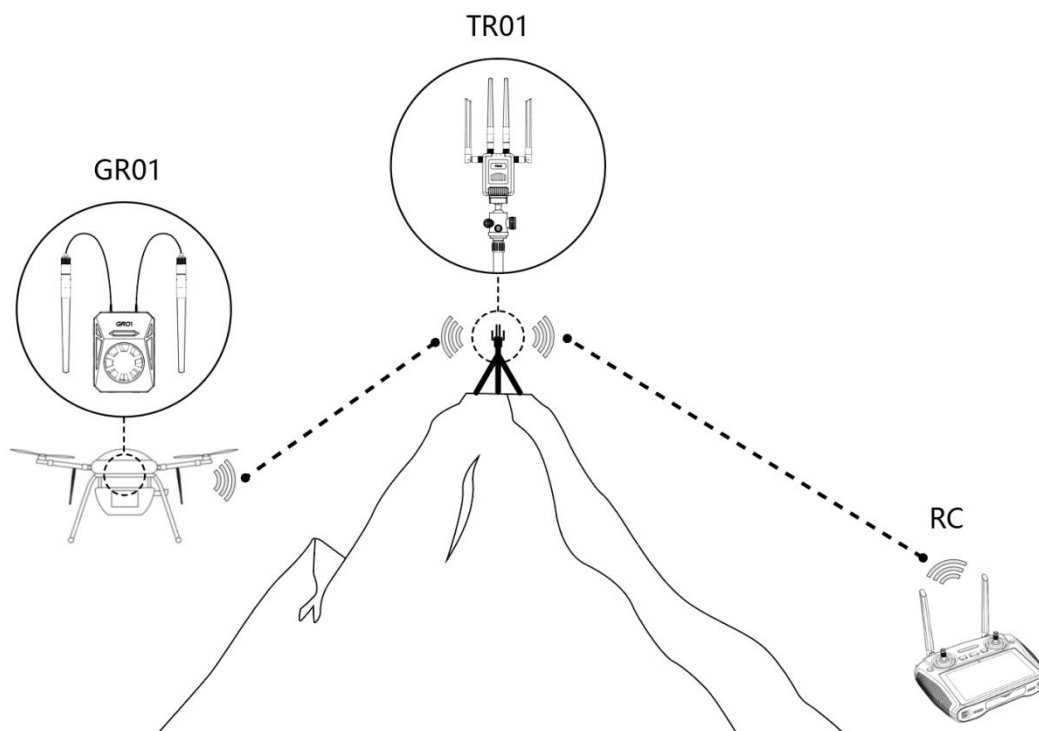
(1) 如下图将所有天线直接拧到中继器 SMA 头上。



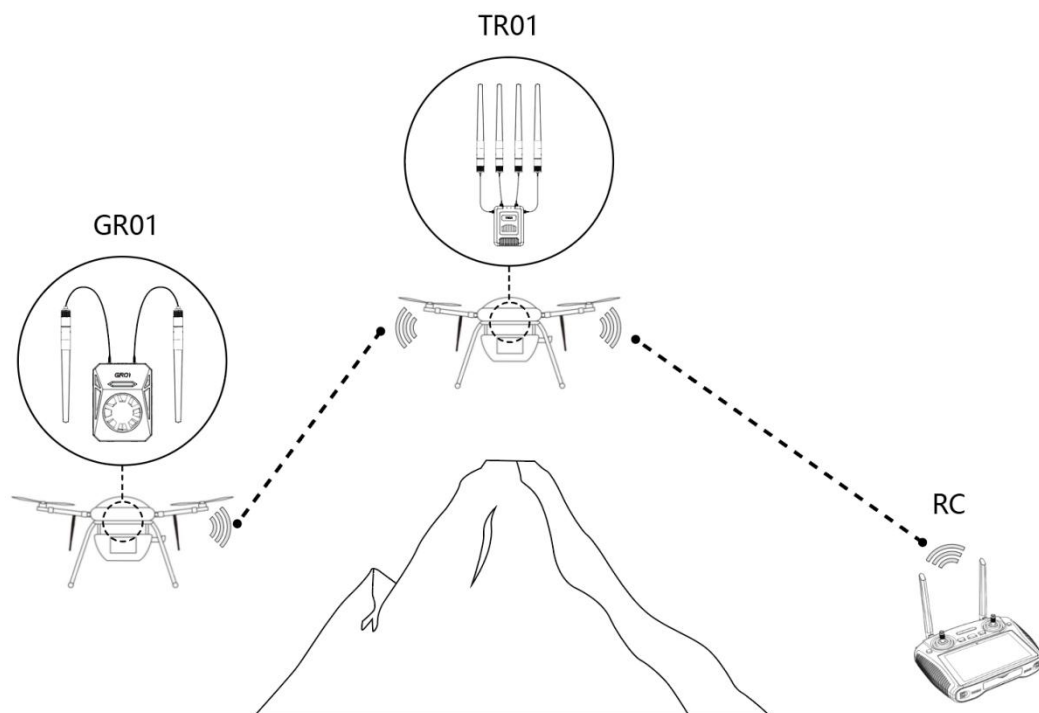
(2) 中继器底部有螺丝孔（英制粗牙 1/4-20）可自行搭配三脚架进行固定。



(3) 地面中继使用示意图。



2. 空中中继模式



注意：中继器需要装延长馈线，SMA 接头需固定在机身外壳并拧紧螺母，确保连接结构稳固可靠，中继器底部贴减震棉与载具进行连接，在机身外部安装拧紧天线棒。

五、TR01 中继的使用

设备助手最新版本 rctool-3.0.5;

遥控器安装最新版云卓 Skydroid FLY 软件,

软件地址: <http://file.skydroid.xin/SkydroidFly.apk>



中继操作流程:

1. 软件配置

1.1 对频操作

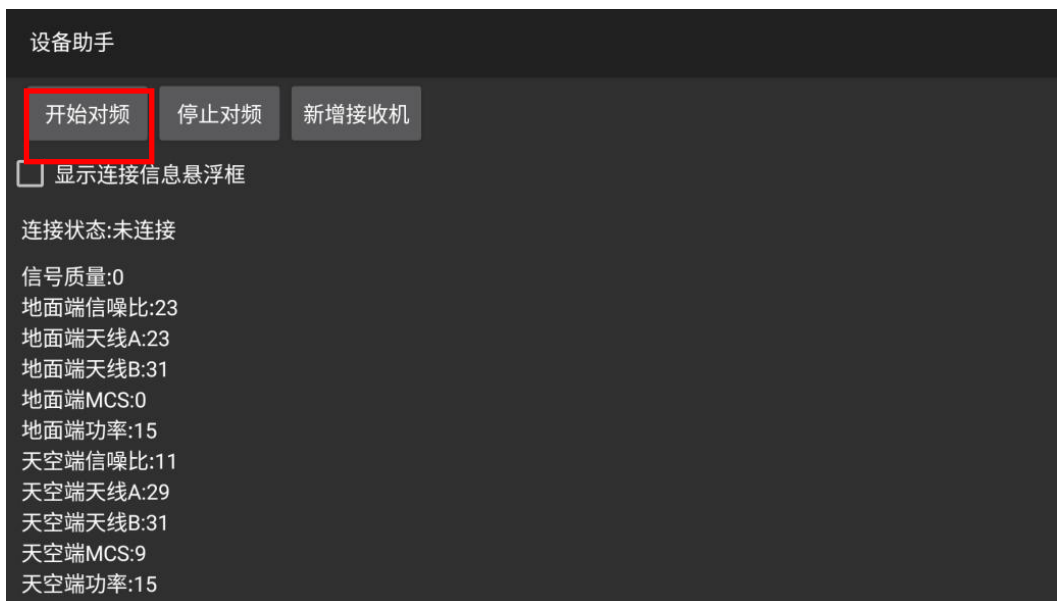
(1) 遥控器、中继器、GR01 购买完整配套设备, 出厂时已对好频, 则不需要对频。

(2) 遥控器接收机中继器对频操作:

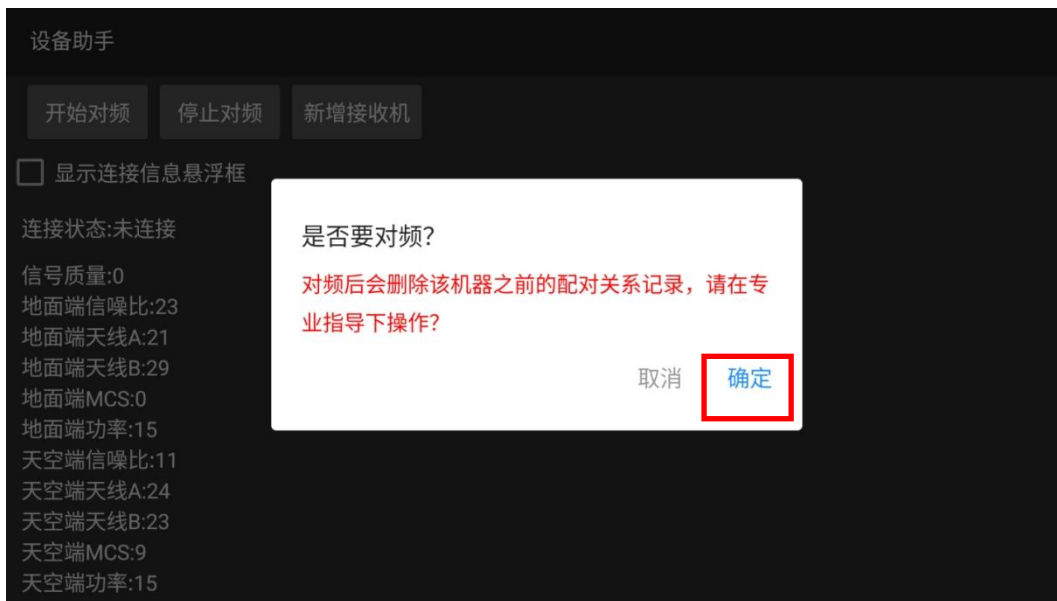
注意: 对频时不能一次性对频多个设备, 对频成功后, 新增设备需要使用新增接收机对频。

① 中继器需要上电等待 30 秒后, 长按对频按键, 直到[⑥遥控器对频连接指示灯]快速闪烁后松开;

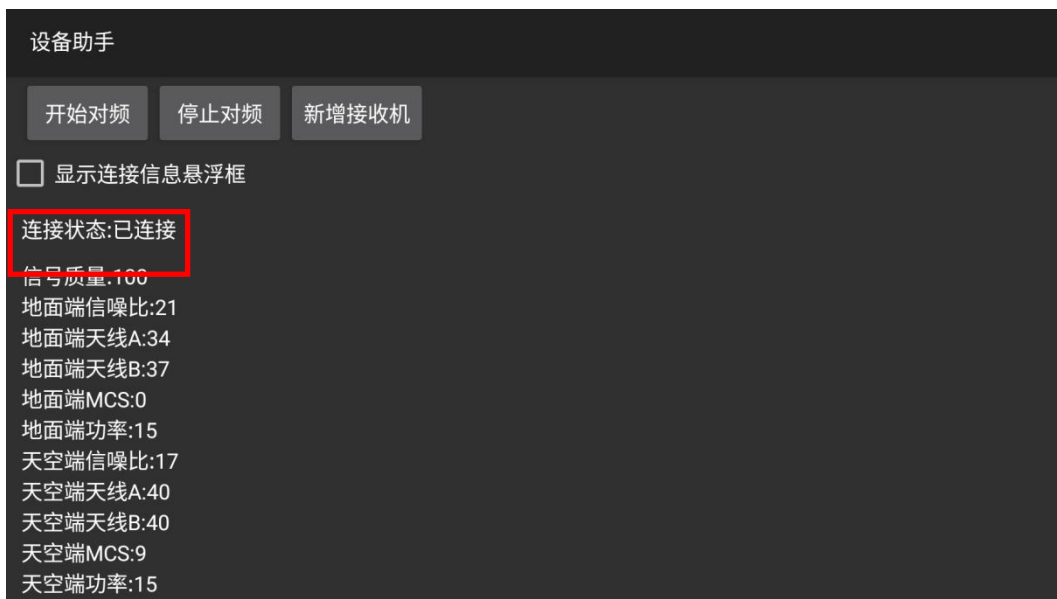
② 遥控器在【设备助手】-->【对频】--->点击【开始对频】



③页面弹窗提示是否要对频->点击确定；



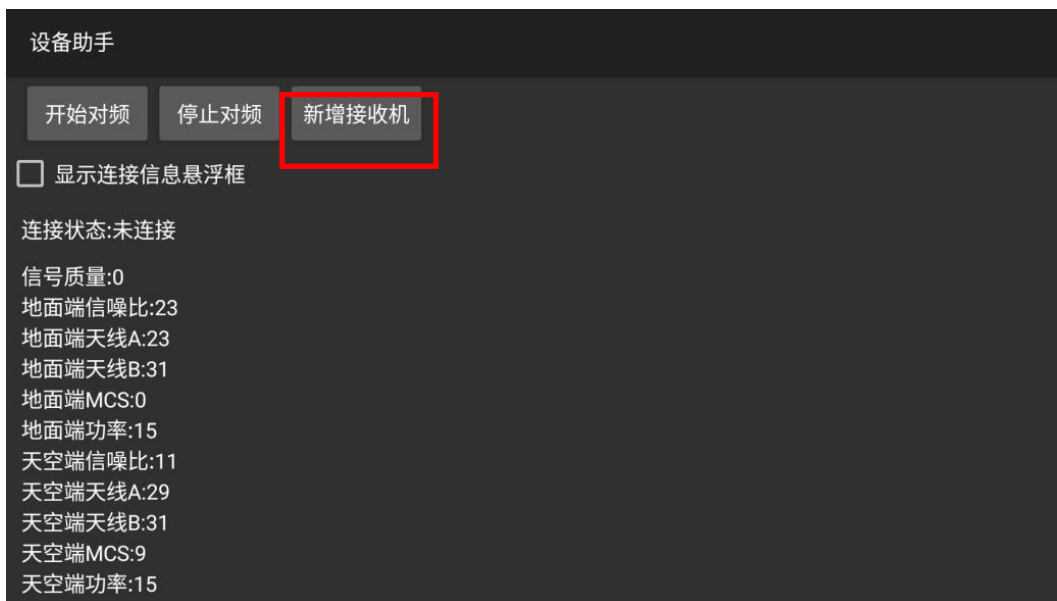
④--->等待对频成功连接，显示对频成功的提示，对频状态显示已连接，



⑤接收机通电，通电后绿灯常亮，蓝灯间歇闪烁，风扇间歇转动。

⑥长按接收机对频按钮，直到蓝灯快速闪烁后松开。

⑦遥控器在【设备助手】-->【对频】--->点击【新增接收机】；



⑧页面弹窗提示新增接收机->点击确定；



⑨接收机 GR01 与遥控器成功连接后接收机指示灯将会蓝灯常亮，并且中继器[⑤接收机对频指示灯]也会蓝灯常亮。

⑩**注：**遥控器需要联网，打开设备助手弹窗需要更新到最新版本。
对频时请保持遥控器和接收机、中继器距离在 50CM 以内。

1.2 中继器和 GR01 接收机开机顺序

对频成功后，遥控器开机进系统，中继器和 GR01 都断电，必须首先先启动中继器后，然后再启动 GR01，这样遥控器会先链接到中继器，中继器再连接到 GR01。

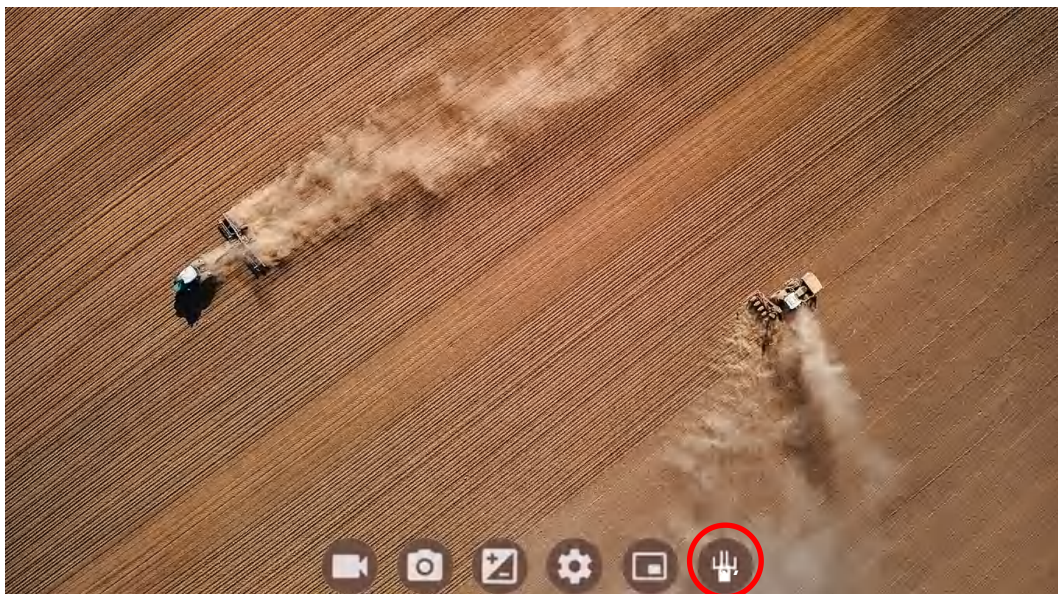
注意：必须按这个上电顺序操作。

2. 切换控制功能

当遥控器和中继器连接，中继器和 GR01 连接时，中继器和 GR01 都分别装在不同的飞机上，遥控器默认是控制连接到 GR01 这个终端飞机的（即接收机模式）。

（1）可以在【设备助手】--->【视频查看】（页面显示接收机图传画面并且数传和 SBUS 均可以控制接收机）；

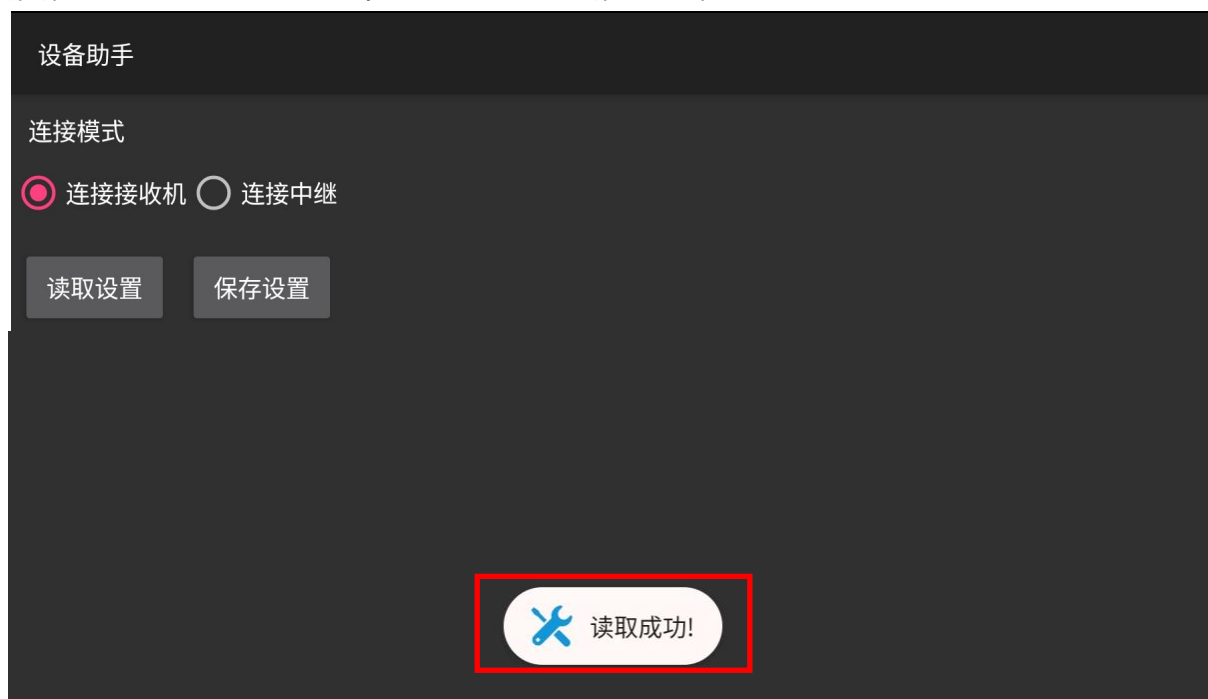
（2）点击中继切换按钮；



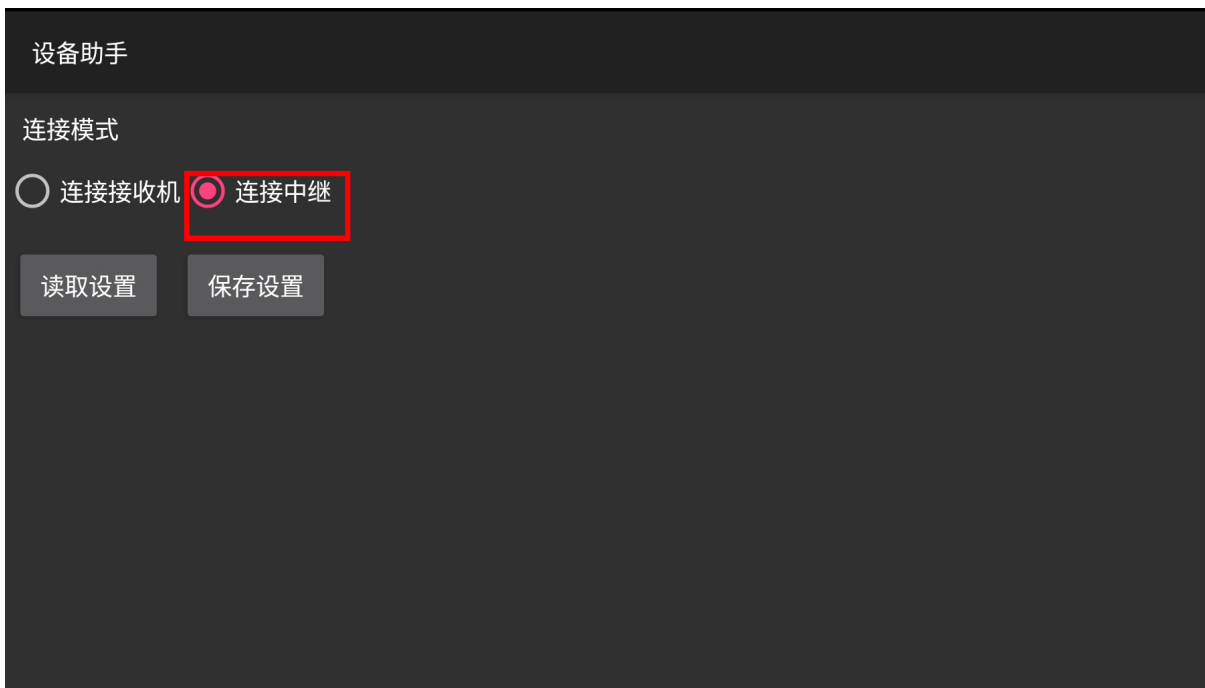
（3）自动读取当前使用的模式；

连接中继：遥控器连接控制**中继器**设备；

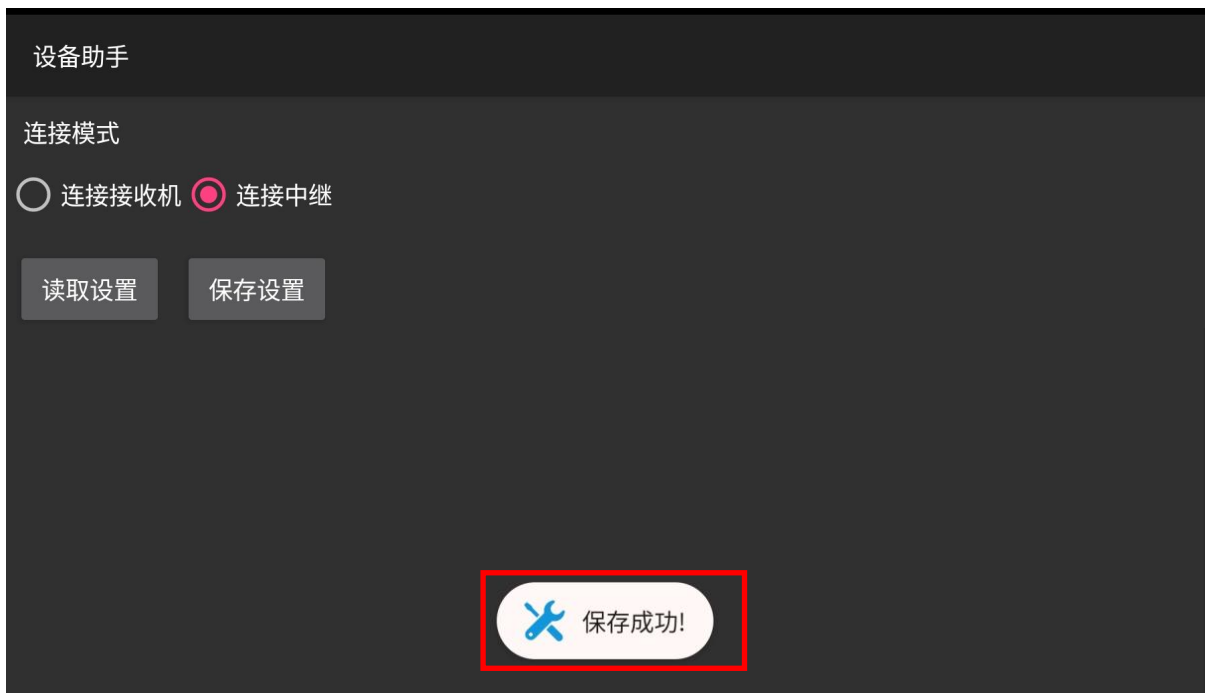
连接接收机：遥控器通过中继器连接控制**接收机**；



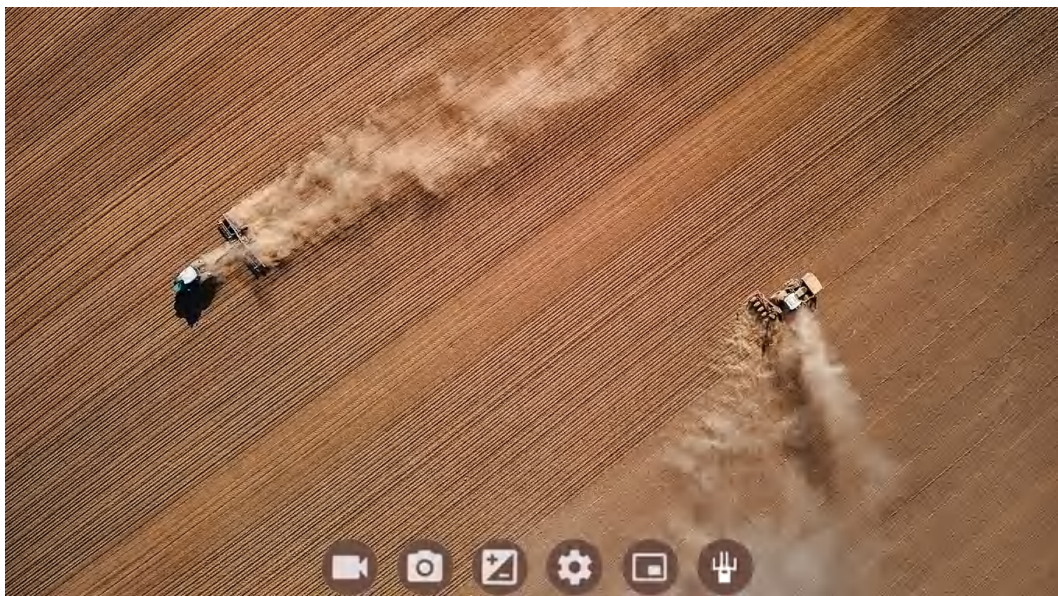
(4) 切换为连接中继；



(5) 点击保存设置，提示保存成功；



(6) 返回视频页面，显示中继器的图传画面，并且数传和 SBUS 均可以连接控制中继器设备。



3. 中继器波特率设置：

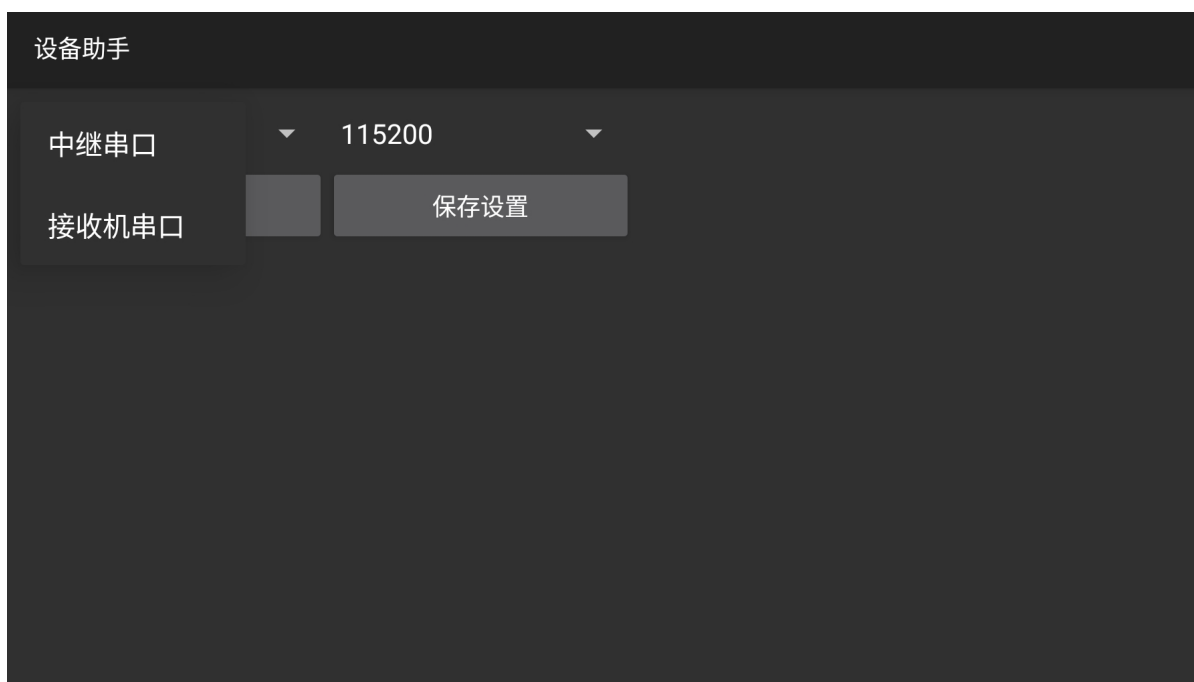
打开设备助手->高级选项->输入密码 999，选择波特率设置



(1) 中继串口：点击读取后设置中继器串口的波特率保存；

(2) 接收机串口：点击读取后设置接收机串口的波特率保存。

注意：修改接收机串口波特率需要接收机-中继器-遥控器连接的情况下设置。



4. 使用 FLY 地面站切换中继和接收机

如果使用我们的 S2 或者 S2mini 航电系统或 APM 开源飞控，可以使用我们 FLY 地面站。

(1) 打开云卓 FLY，点击左上角三；



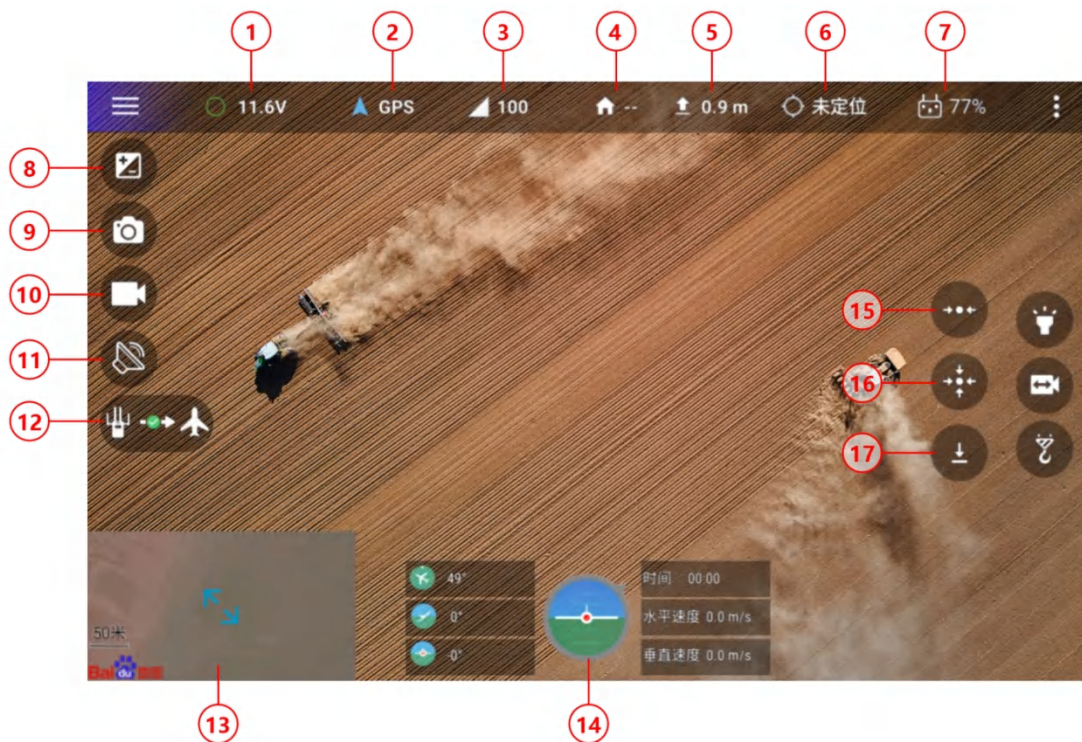
(2) 点击切换连接；



(3) 选择 S2+GR01+G12/G20/C10 系列带中继器图标连接方式，点击进入。



(4) FLY 地面站首页介绍。



序号	注解	序号	注解
1	电池电压	10	录像
2	飞行模式	11	喊话
3	信号强度	12	中继模式切换按钮
4	HOME 点距离	13	地图
5	高度	14	姿态球
6	GPS 信息	15	水平回中
7	遥控器电量	16	全局回中
8	参数设置	17	一键向下
9	拍照		

(5) 首页点开图传页面，当遥控器连接中继->连接 GR01（控制终端 GR01 的飞机）左侧会显示一个中继器->无人机的图标。



(6) 点击  图标，弹出连接模式的选项，底部会提示读取成功。

连接接收机：遥控器通过中继器连接控制接收机（默认连接）。

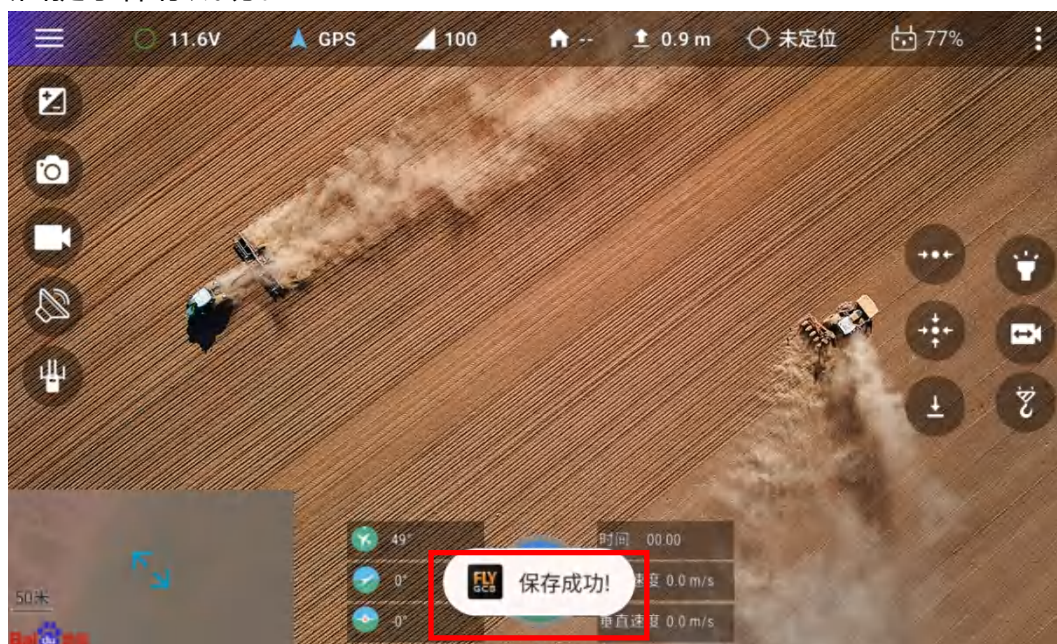
连接中继器：遥控器连接控制中继器设备。



(7) 接收机和中继的切换：点击连接中继，再点击确定。



(8) 页面提示保存成功。



(9) 左侧图标变为中继的图标，即切换成功当前为可控制中继器设备。



5. 中继器升级

1. 遥控器连接中继器的情况下打开设备助手->高级选项



2. 输入密码 999 确认，进入中继器升级模式

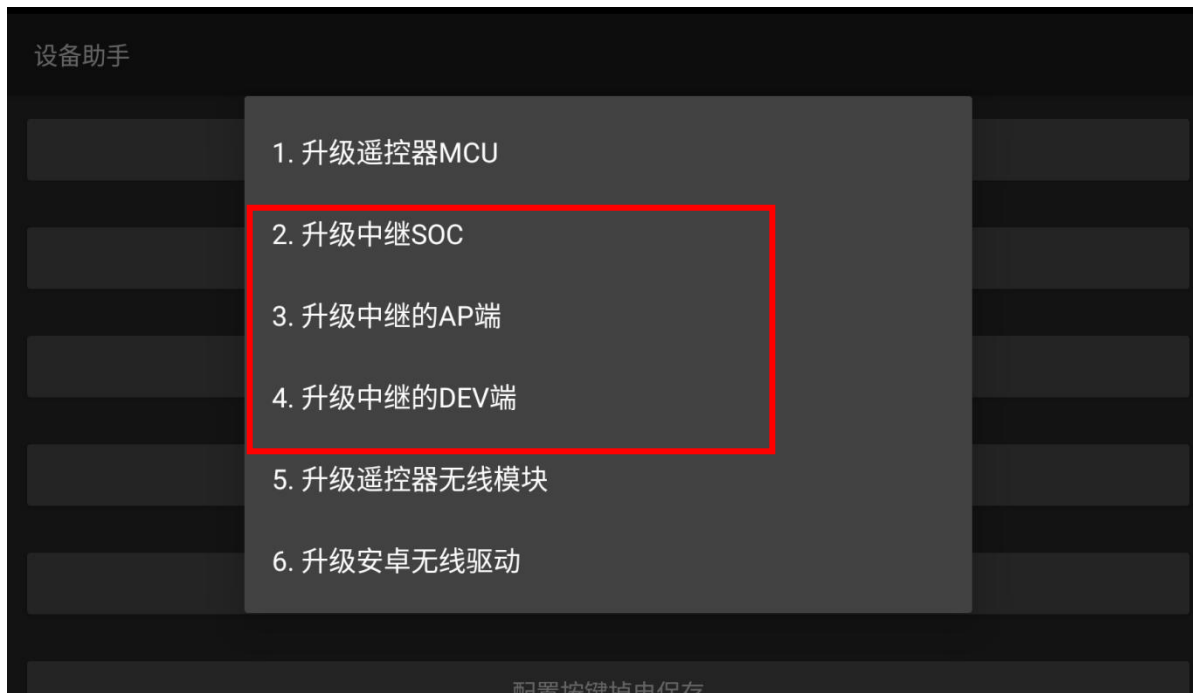


3. 点击升级设备



4.升级下列固件

[2.升级中继 SOC 固件。3.升级中继的 AP 端。4.升级中继的 DEV 端]



升级步骤：1.检查更新，2.立即更新。



注意：请不要在升级中退出程序、断开连接或者关闭电源。

六、产品参数

TR01 参数			
工作频段	2.4G/5.8G	串口波特率	57600/115200/921600
供电电压	7.2-72V(XT30)	工作电流	560mA/12V
数传口	1 路	速率	出厂默认 上行 200kbps, 可开上传模式, 最大可达 1.2Mbps。 下行 10Mbps (最大可达 20Mbps, 需定制) (注意: 打开后会影响通讯距离, 建议近距离使用)
网口	2 路	外形尺寸	248mm(长)×140mm (宽) ×20mm (高)
SBUS 输出	1 路	重量	191g
PWM 接口	3 路	工作环境温度	-10℃~60℃
射频功率	23dBm@CE/FCC	信道带宽	1.25MHz/2.5MHz/5MHz/ 10MHz/20MHz/40MHz

七、常见问题

1. 中继器可以和云卓其他型号或者第三方遥控器匹配吗?

答: 中继器只能用于云卓 G 系列链路。

2. 中继器可以增加设备吗, 比如两个接收机。

答: 不能, 中继器目前支持的配置是: 遥控器 1 台+中继器 1 台+接收机 1 个。不支持增加设备。

3. 中继器可以让距离翻倍吗?

答: 中继器的主要作用是规避遮挡, 中继器可以架高或者装飞机上面飞起来。

八、售后地址与技术支持

售后或退换货地址：福建省泉州市丰泽科技路育成基地 A 幢 2 楼

收件人：王先生，电话：18876386351

售后：

寄回请附纸条，写明联系方式、回寄地址、寄回原因等，否则不予处理。

退换货：

寄回请附纸条，写明联系方式、退货原因等，保留出库单、原包装，未写明发回原因导致的损失由发回方自行承担，拒收到付件。

说明书如有更新，恕不另行通知，请持续关注官网 www.skydroid.xin

SKYDROID 云卓

SKYDROID TECHNOLOGY (FUJIAN) CO., LTD



SKYDROID TR01 Repeater

Use manual

V1.0

Note!

This product uses the following terms to classify and explain potential hazards that may arise from improper operation.

Note: Failure to follow the instructions may result in property damage and minor injuries.

Note: Failure to follow the instructions may result in property damage, major accidents, and serious injuries.

Warning: Operate the product only after reading the entire user manual and becoming familiar with its functions. Improper operation of this product may cause serious harm to yourself or others, as well as product damage and property loss. This product is relatively complex and requires a period of familiarization to be used safely; it also requires basic common sense to operate. Without a strong safety awareness, inappropriate operation may lead to product damage, property loss, or even serious harm to yourself or others.

This product is not suitable for children. Do not use parts that are not provided or recommended by Skydroid. Strictly follow Skydroid's guidelines when using the product.

After-Sales Service Terms

1. These terms apply only to products manufactured by Quanzhou Skydroid Technology Co., Ltd. Products sold by authorized Skydroid distributors are also subject to these terms.
 2. For products of our company, if a non-human-induced quality defect is verified by our company within one week from the date of purchase, Skydroid shall bear the round-trip courier fees for the product to be repaired. If a quality defect is verified by our company for products purchased from Skydroid for more than one week but within one year, the user and Skydroid shall each bear the courier fee for sending the product to be repaired (i.e., the user bears the fee for sending the defective product to Skydroid, and Skydroid bears the fee for sending the repaired product back to the user).
 3. When returning a product for repair, the purchase certificate, warranty card, or online platform transaction record must be provided.
 4. If a Skydroid product has a non-human-induced quality defect under normal use within seven days from the date of purchase, and the product's appearance is undamaged, the user may negotiate with the distributor for a free replacement with the same model, provided that the warranty card and purchase certificate are presented. The distributor shall promptly notify Skydroid Technology Co., Ltd. to file a record for the replacement upon receiving the product to be replaced.
 5. Skydroid products shall be provided with lifetime after-sales service by Quanzhou Skydroid Technology Co., Ltd. For non-human-induced quality defects, free warranty service is provided within one year from the date of purchase. For damages caused by human factors, modifications, disassembly, or products that have exceeded the one-year free warranty period, the user shall bear the round-trip courier fees and repair costs.
 6. To ensure your rights and interests are protected and to enable us to provide you with timely and effective service, please fully fill out the warranty card and request a purchase certificate when purchasing a Skydroid product. The user must present the warranty card and purchase certificate to enjoy the benefits under these after-sales service terms.
 7. Repaired products will be sent back to the customer within 15 working days after Skydroid receives the defective product, accompanied by a repair report.
 8. The above after-sales service terms apply only to Skydroid products sold in Mainland China.
- For after-sales inquiries from customers in Hong Kong, Macau, Taiwan, and overseas regions, please send an email to sales01@skydroid.xin. Specific after-sales details will be determined based on the actual situation.

Warning and Disclaimer

The content mentioned in this document is related to your safety, legal rights, interests, and responsibilities. Before using this product, please read this document carefully to ensure the product has been set up correctly. Failure to comply with or follow the instructions and warnings in this document may cause harm to you and those around you, damage this product, or damage other surrounding items. The final interpretation right of this document and all related documents shall belong to Skydroid Technology. For any updates, no separate notice will be given. Please visit the official website at <http://www.skydroid.xin> to obtain the latest product information.

The TR01 has completed debugging before leaving the factory. Do not disassemble or modify the TR01 by yourself. Any unsafe or irresponsible operation on this product may cause product damage, and lead to economic losses or even personal injury to the user or others.

Note: The repeater can only be used for the G-series links.

Operating Environment Requirements

A) Ambient Temperature: -10°C~60°C

B) Storage Temperature: -25°C~60°C

C) Atmospheric Pressure: 86kPa~106kPa

D) The place of use shall not have explosive hazardous media; the surrounding media shall not contain gases or conductive media that corrode metals and damage insulation, and shall not be filled with water vapor or have severe mold growth.

E) The place of use shall be equipped with facilities to protect against rain, snow, wind, sand, and dust.

Since our company cannot control the user's specific use, installation, modification, improper use, and other situations, our company shall not be liable for direct or indirect losses caused by the above factors. If you use, install, or assemble Skydroid Technology's products, you shall bear the corresponding consequences. Our company shall not be liable for any indirect or direct losses or injuries caused by the use of this product.

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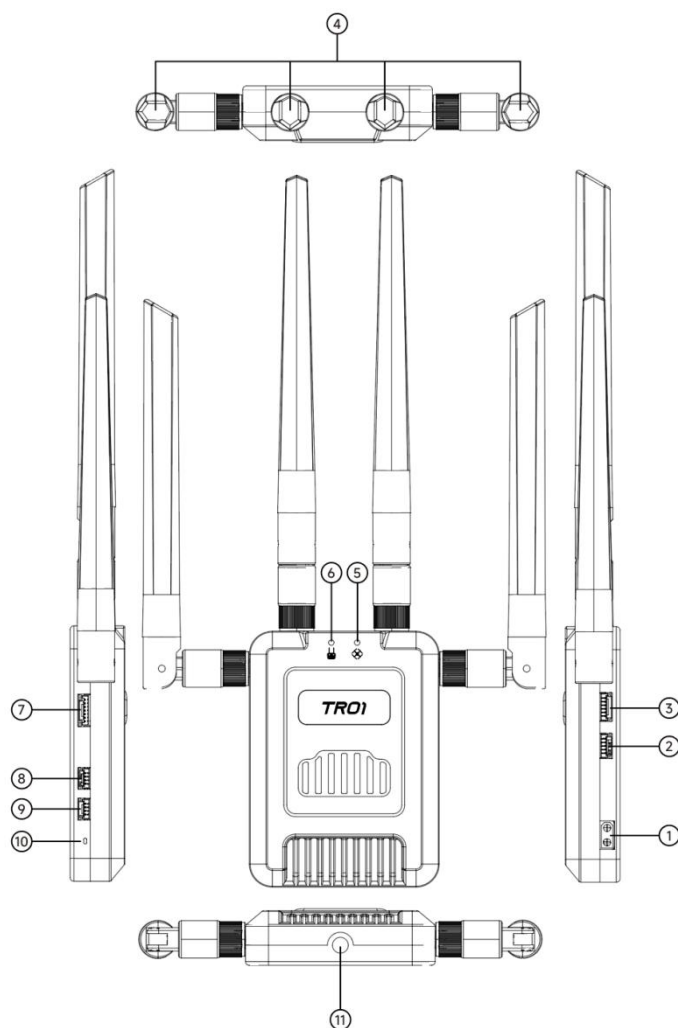
- I . Product Overview1
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I . Product Overview

As communication requirements in complex environments become increasingly stringent, Skydroid Technology has launched a new generation of dual-mode repeaters for UAVs (Unmanned Aerial Vehicles). Leveraging innovative multi-protocol fusion technology, this product redefines the possibilities of UAV communication.

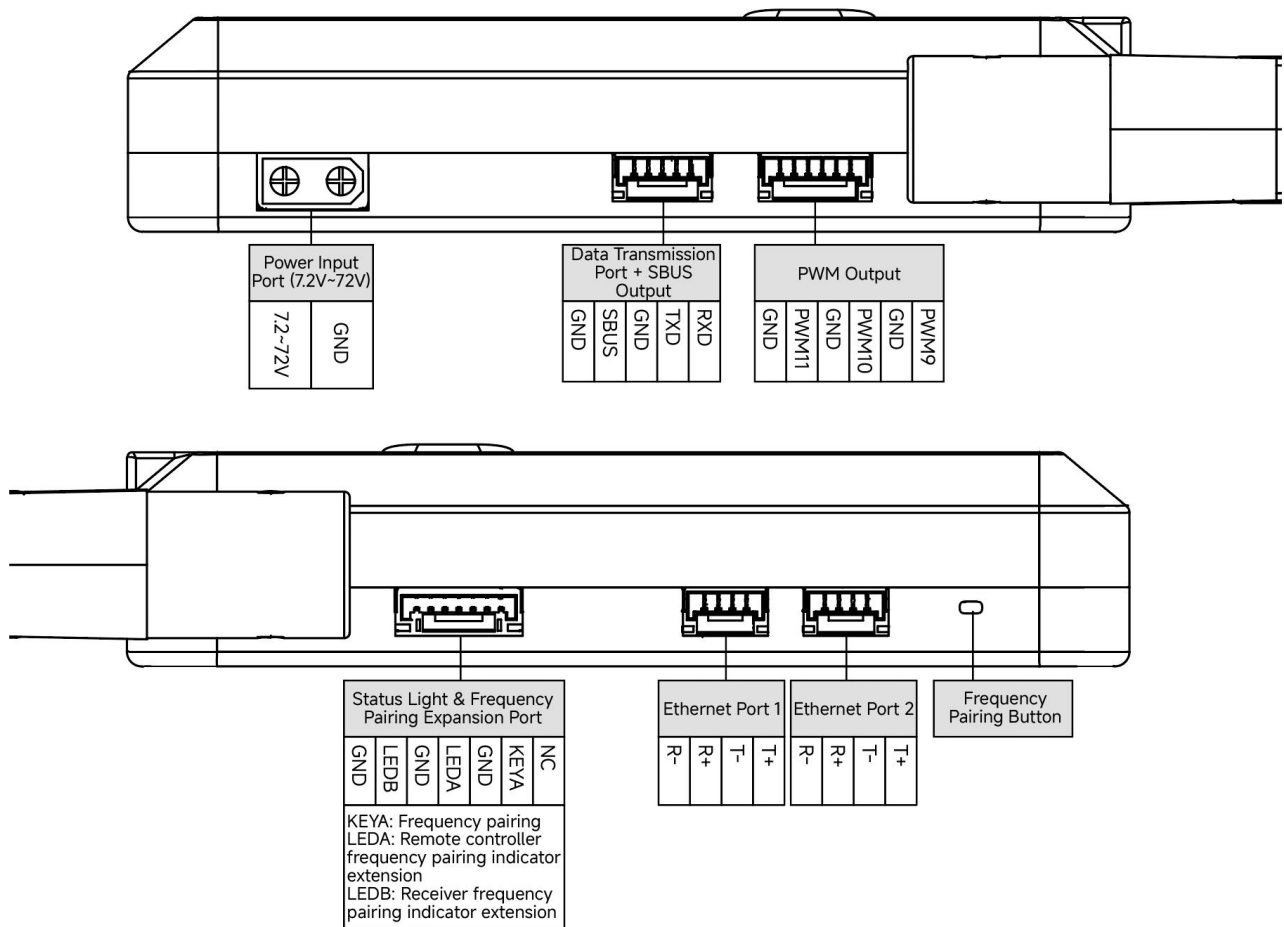
The system supports the simultaneous coordination of 2.4G and 5.8G dual frequency bands. While ensuring beyond-visual-line-of-sight (BVLOS) transmission, the repeater can be configured to operate in receiver mode or switched to repeater mode for aerial relaying-enabling seamless switching in the air. This completely addresses the coverage blind spots and anti-interference bottlenecks that plague traditional single-mode repeaters.

II . Component Names



No.	Annotation	No.	Annotation
1	Power Input Port (7.2V~72V)	7	Status Light & Frequency Pairing Expansion Port
2	Data Transmission Port + SBUS Output	8	Ethernet Port 1
3	PWM Output	9	Ethernet Port 2
4	SMA Male Thread/Male Pin Antenna Port (2.4G/5.8G Dual-Band Antenna)	10	Frequency Pairing Button
5	Receiver Frequency Pairing Indicator Light	11	Internal Screw Hole (Imperial Coarse Thread 1/4-20)
6	Remote Controller Frequency Pairing Indicator Light		

III. Interface Definition and Description

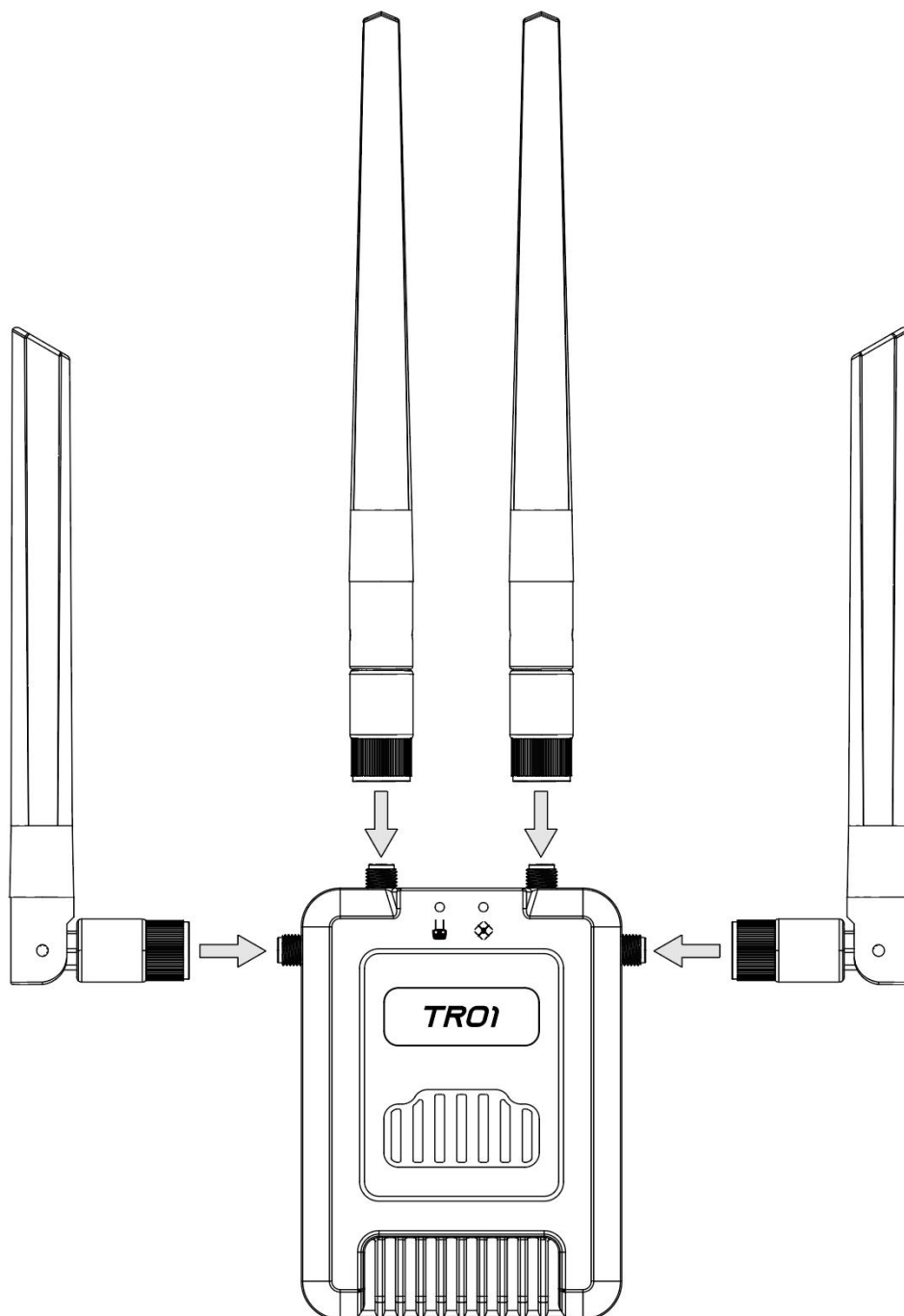


IV. Installation Methods

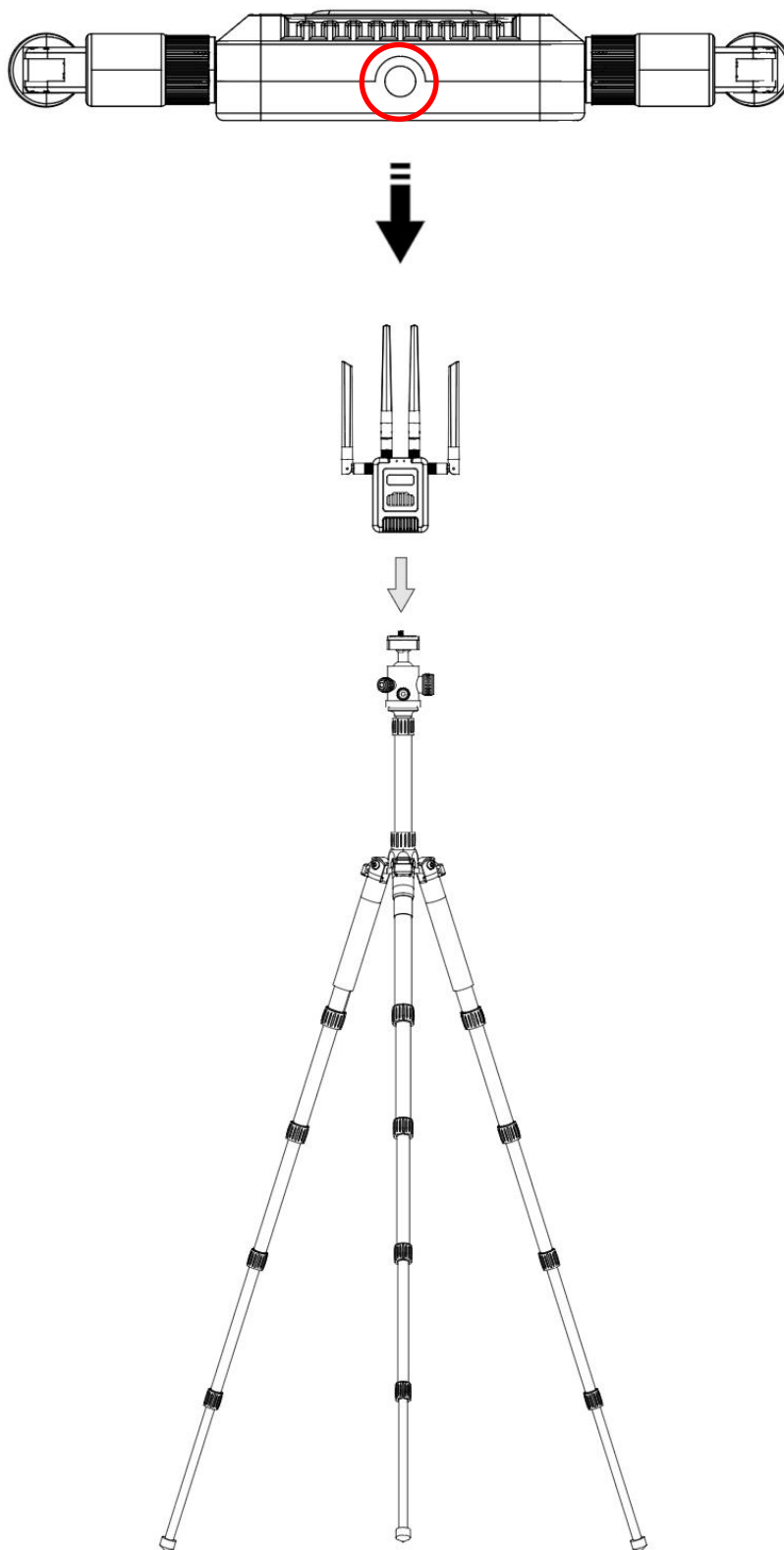
The TR01 repeater is designed for two usage scenarios, with the recommended

1. Ground Repeater Mode

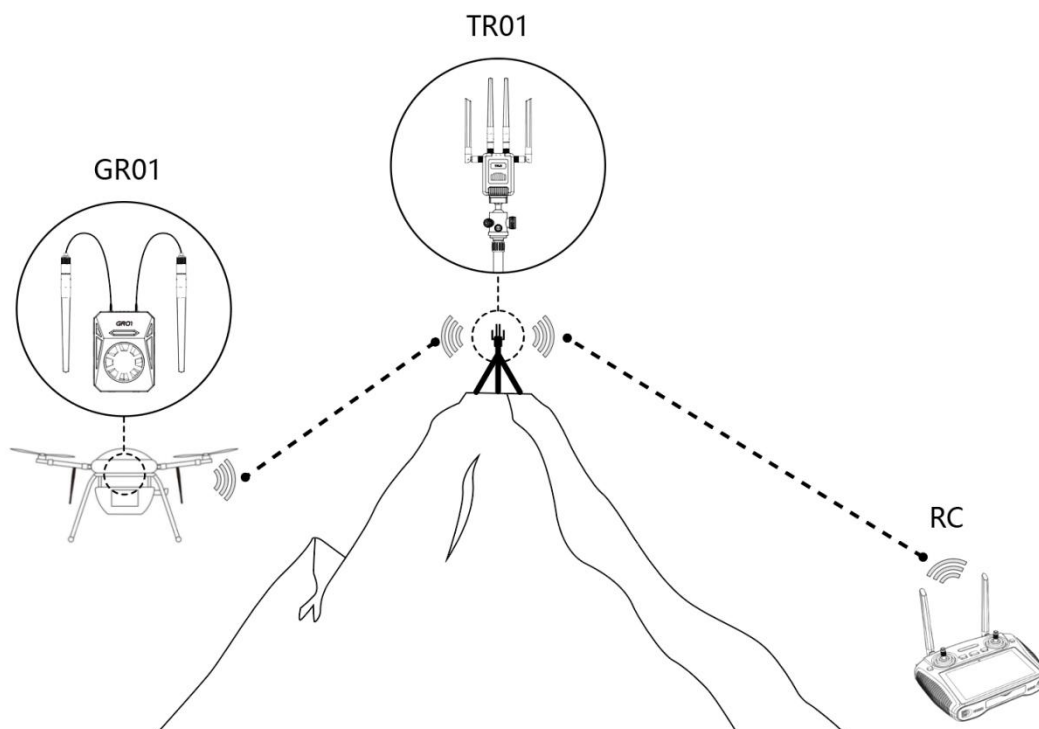
(1) As shown in the figure below, directly screw all antennas onto the SMA connectors of the repeater.



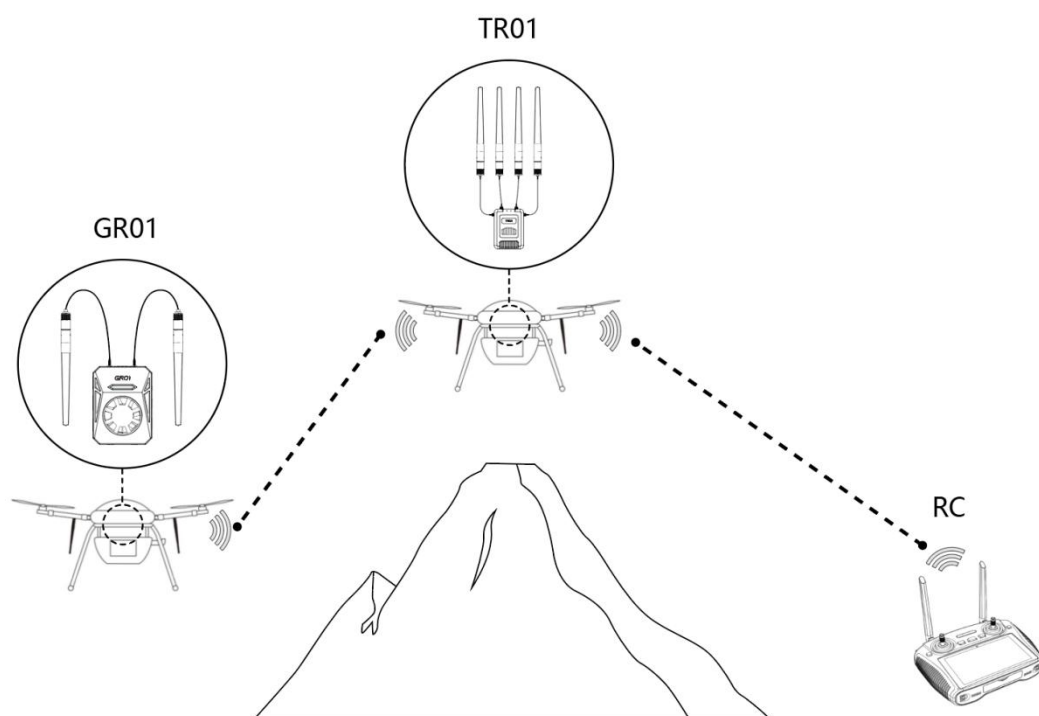
(2) There is a screw hole (Imperial coarse thread 1/4-20) at the bottom of the repeater, which can be used with a tripod for fixation.



(3) Schematic Diagram for Ground Repeater Application.



2. Aerial Repeater Mode



Warning: For the repeater, an extended feeder cable is required. The SMA connector must be fixed to the fuselage shell and the nut tightened to ensure a stable and reliable connection structure. Attach shock-absorbing foam to the

bottom of the repeater for connection to the carrier, and install and tighten the antenna rod on the exterior of the fuselage.

V. Usage of the TR01 Repeater

Software Preparation (Prerequisite for Usage)

Ensure the Device Tool is updated to the latest version: rctool-3.0.5.

Install the latest version of Skydroid FLY Software on the remote controller.

Software download address: <http://file.skydroid.xin/SkydroidFly.apk>



Repeater Operation Process

1. Software Configuration

1.1 Frequency Pairing Operation

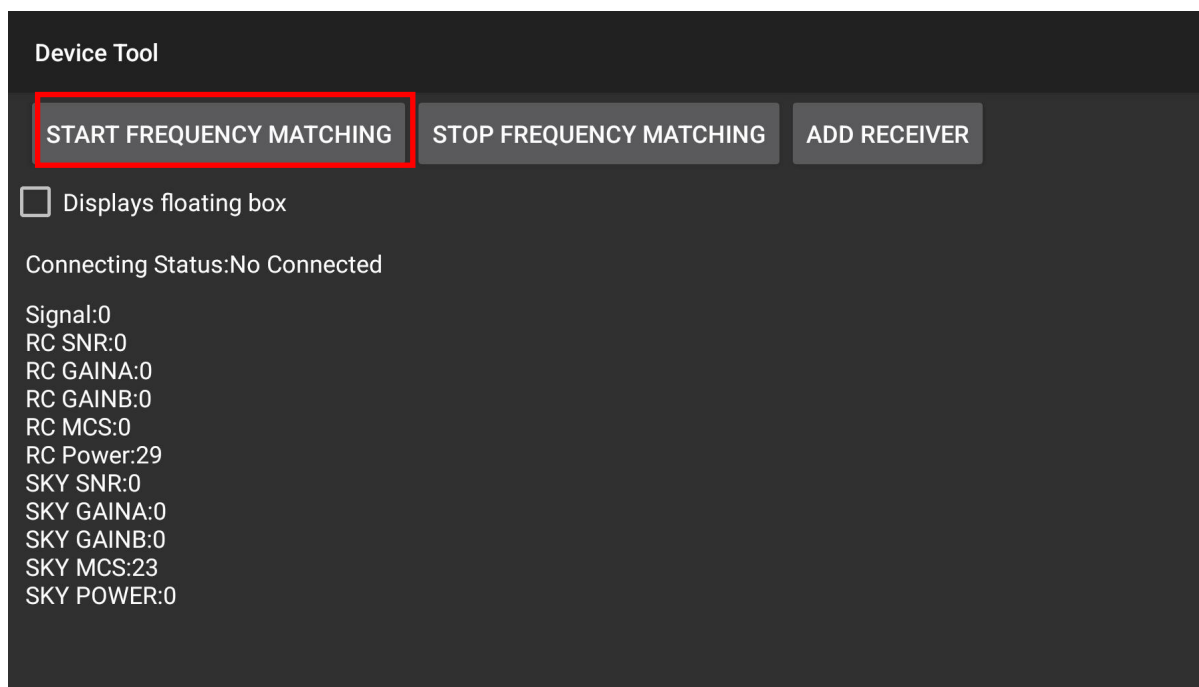
(1) If you purchased a complete set of devices (remote controller, repeater, and GR01), they have been pre-paired at the factory, so no additional pairing is required.

(2) Frequency pairing steps for remote controller, receiver, and repeater:

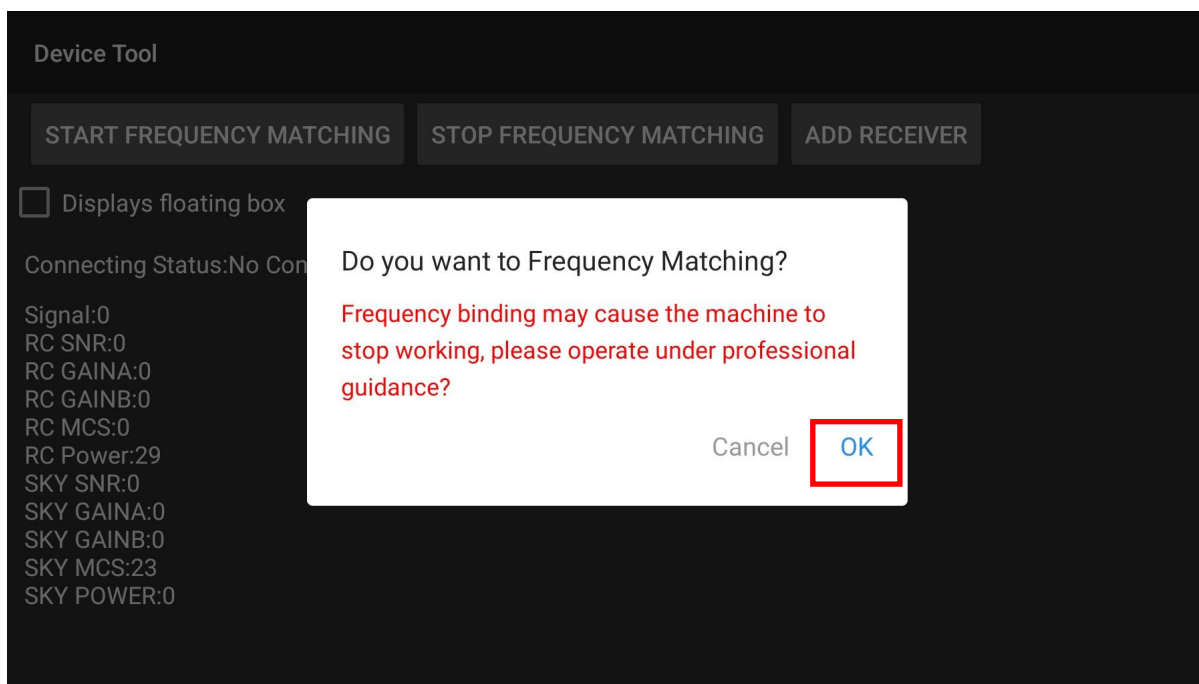
Note: Do not pair multiple devices simultaneously. After successful pairing, if adding new devices, use the "Add Receiver" function for pairing.

① Power on the repeater and wait 30 seconds. Press and hold the frequency pairing button until [⑥ Remote Controller Frequency Pairing Indicator Light] flashes rapidly, then release the button.

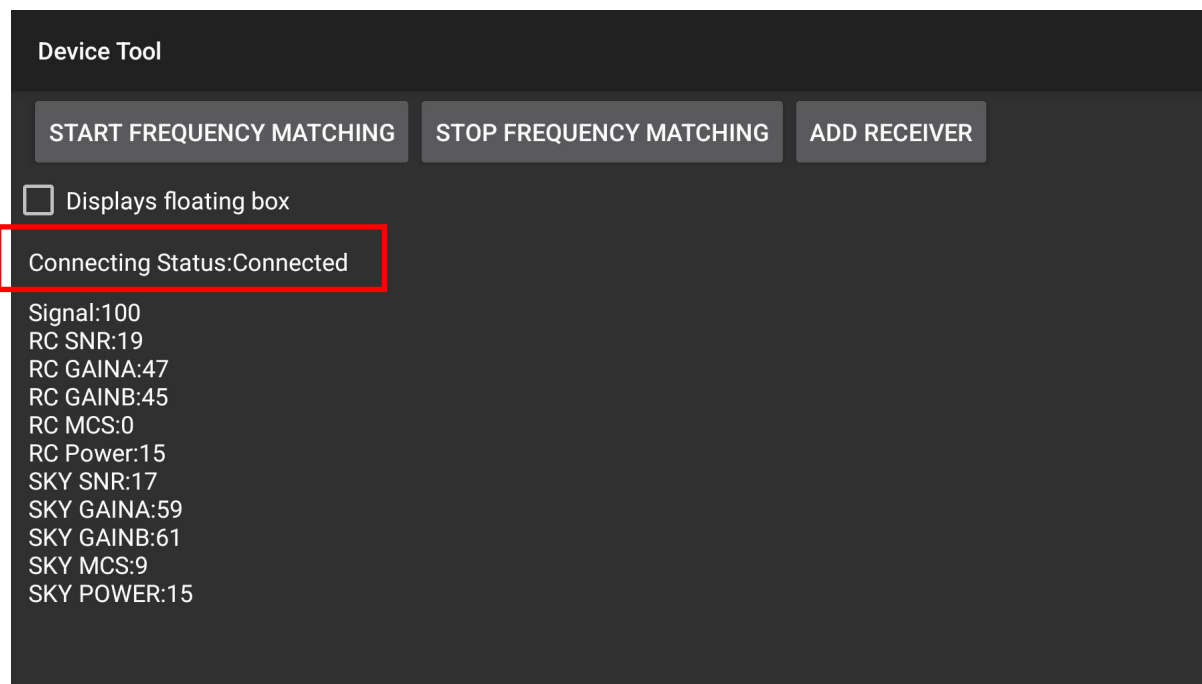
② On the remote controller, go to [Device Tool] → [Frequency Matching] → click [Start Frequency Matching].



③ A pop-up window will appear on the screen asking whether to proceed with frequency pairing → click [OK].



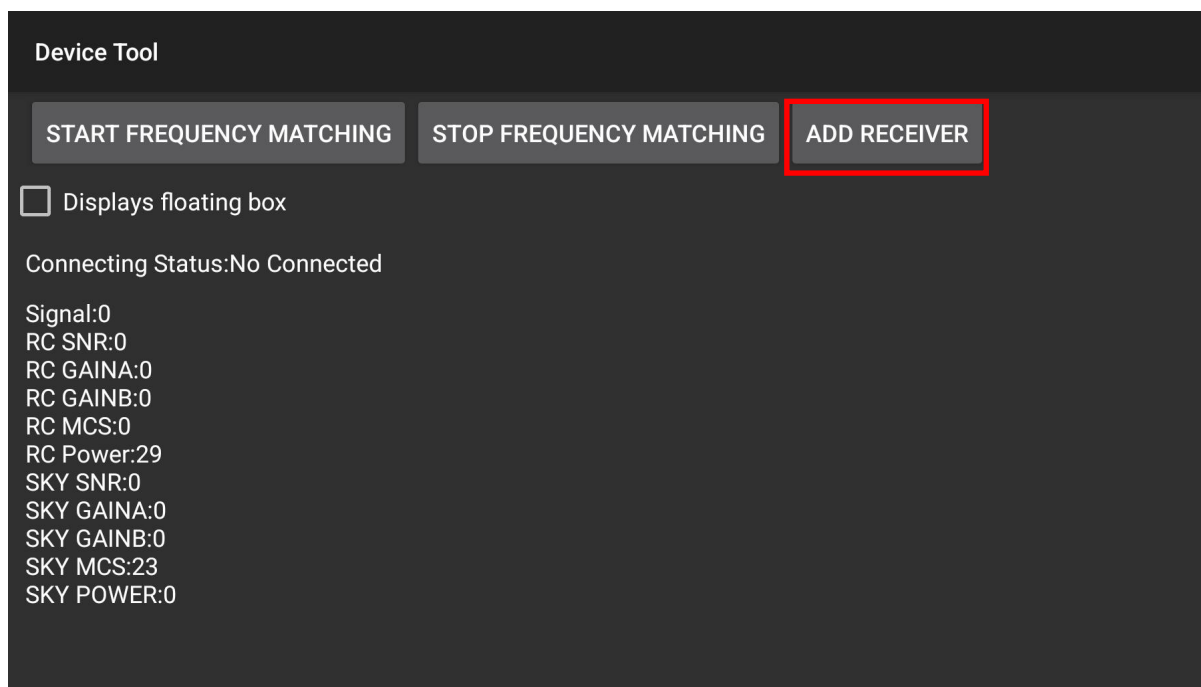
④ → Wait for successful frequency pairing connection. A prompt indicating "START FREQUENCY MATCHING" will appear, and the pairing status will show "connected".



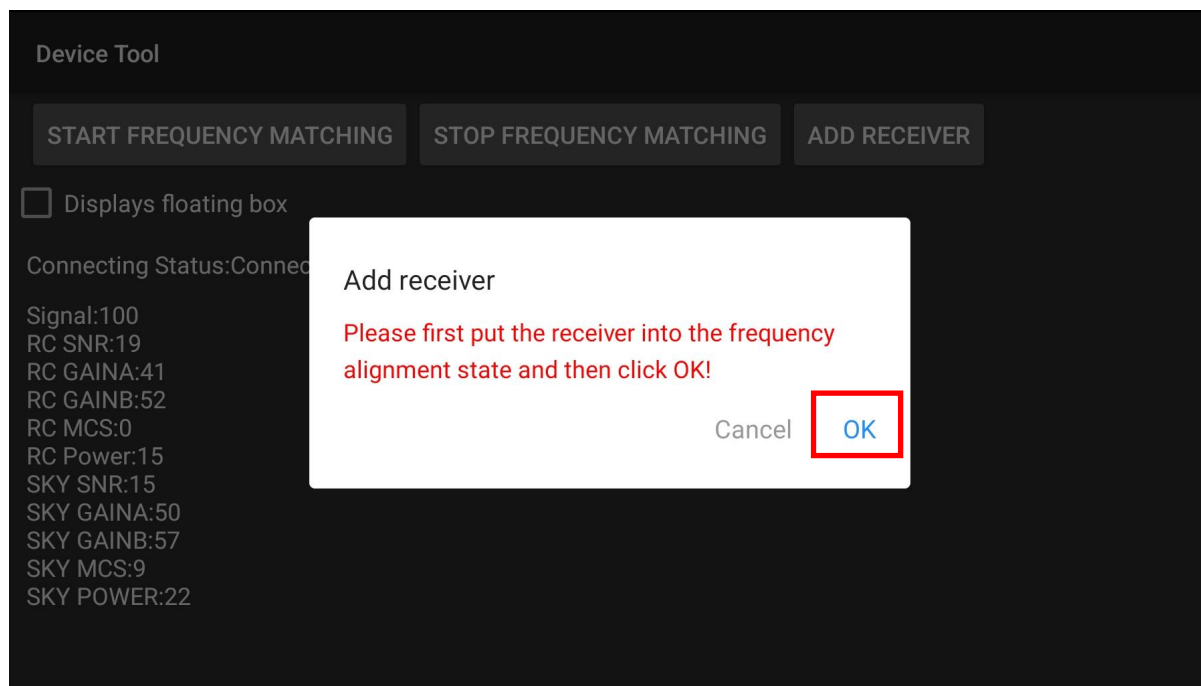
⑤ Power on the receiver. After powering on, the green light remains on, the blue light flashes intermittently, and the fan operates intermittently.

⑥ Press and hold the receiver's frequency pairing button until the blue light flashes rapidly, then release the button.

⑦ On the remote controller, go to [Device Tool] → Frequency Matching] → click [Add Receiver].



⑧ A pop-up window will appear on the screen prompting "Add Receiver" → click [OK].



⑨ Once the GR01 receiver successfully connects to the remote controller, the receiver's blue light will remain steadily on, and the repeater's [⑤ Receiver Frequency Pairing Indicator Light] will also stay steadily blue.

⑩ **Note:** The remote controller requires an internet connection. If a pop-up prompts you to open the Device Tool, ensure it is updated to the latest version.

During frequency pairing, keep the remote controller, receiver, and repeater within 50 cm of each other.

1.2 Power-on Sequence for the Repeater and GR01 Receiver

Power-On Sequence for the Repeater and GR01 Receiver After successful frequency pairing, power on the remote controller and let it enter the system. Then power off both the repeater and the GR01. It is mandatory to first power on the repeater, followed by the GR01. This ensures the remote controller connects to the repeater first, and then the repeater connects to the GR01.

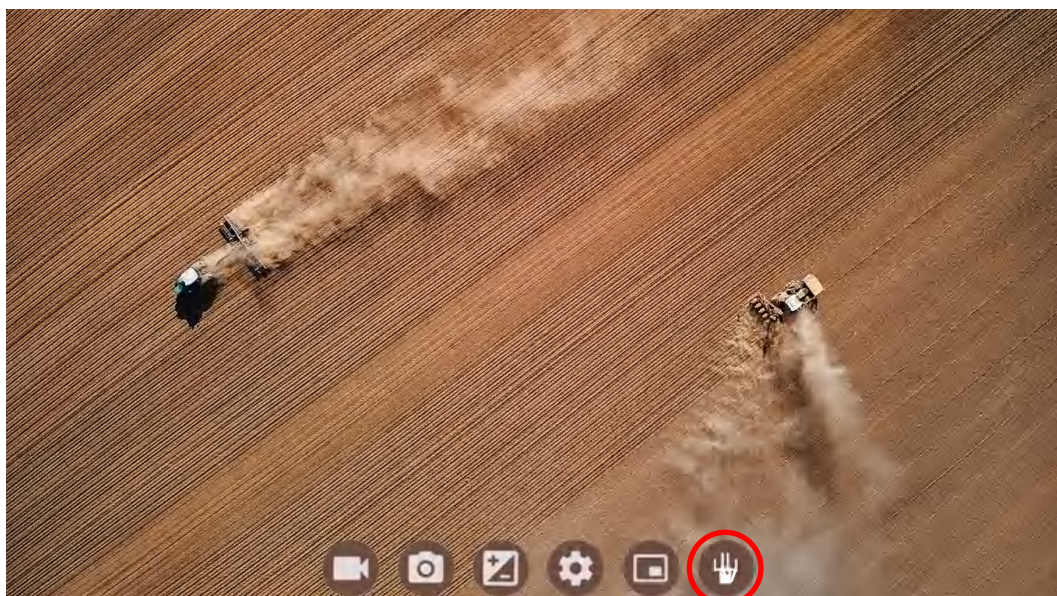
Note: This power-on sequence must be strictly followed.

2. Switching Control Functions

When the remote controller is connected to the repeater and the repeater is connected to the GR01 (with the repeater and GR01 mounted on separate aircraft), the remote controller defaults to controlling the terminal aircraft connected to the GR01 (i.e., receiver mode).

(1) You can access [Device Tool] → [Video Viewing] (the page displays the receiver's image transmission feed, and both data transmission and SBUS can control the receiver).

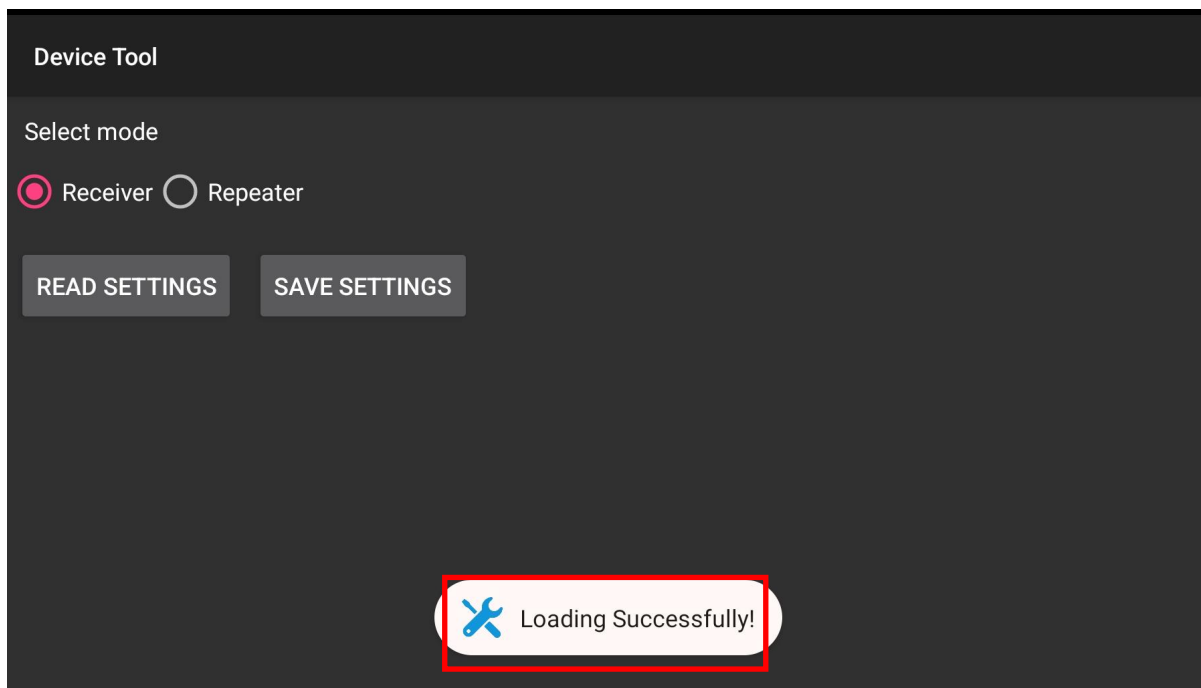
(2) Click the repeater switch button.



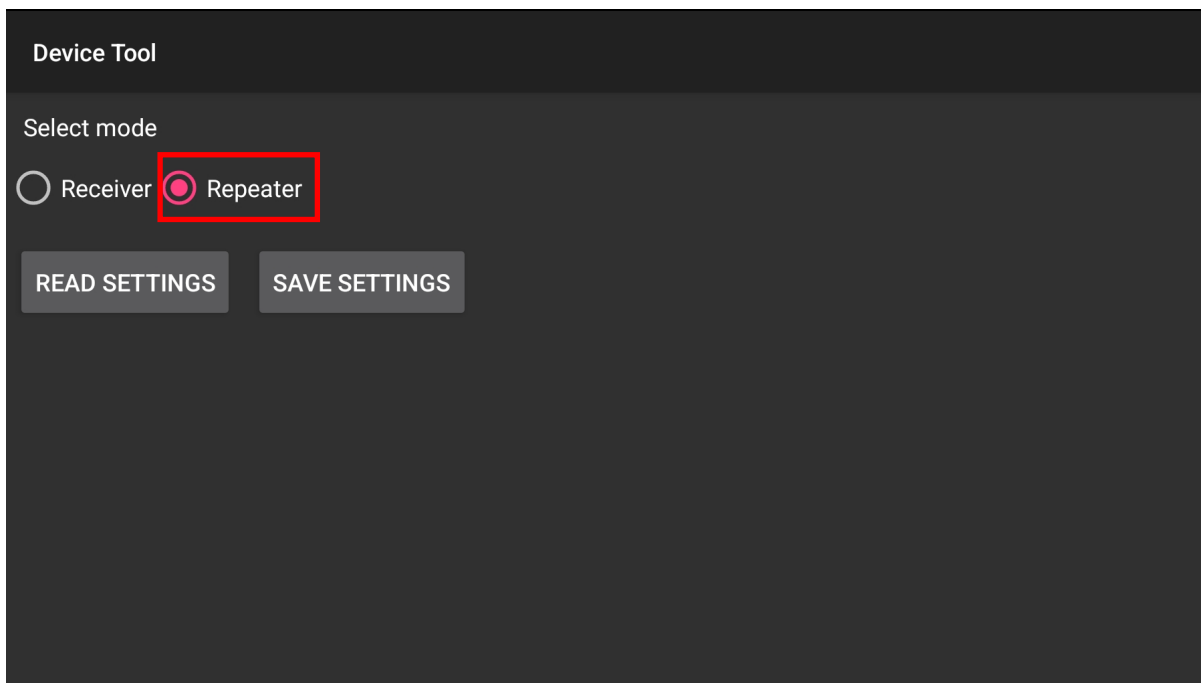
(3) The current mode in use will be read automatically:

Repeater Mode: The remote controller connects to and controls the repeater device.

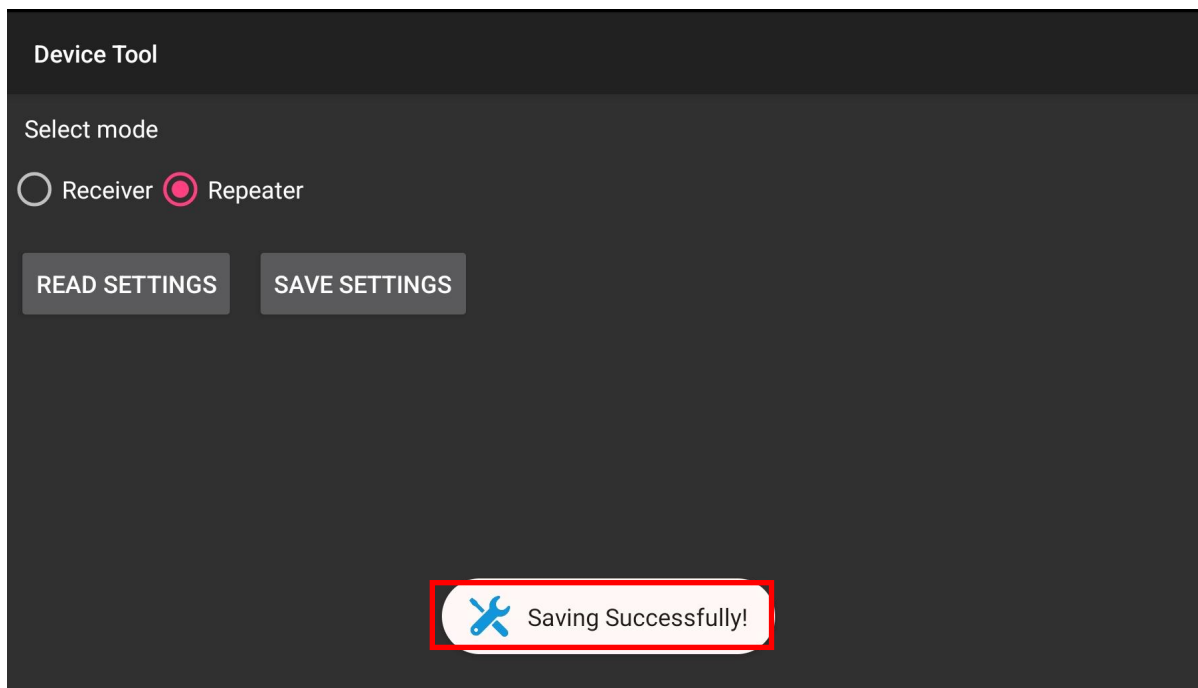
Receiver Mode: The remote controller connects to and controls the receiver via the repeater.



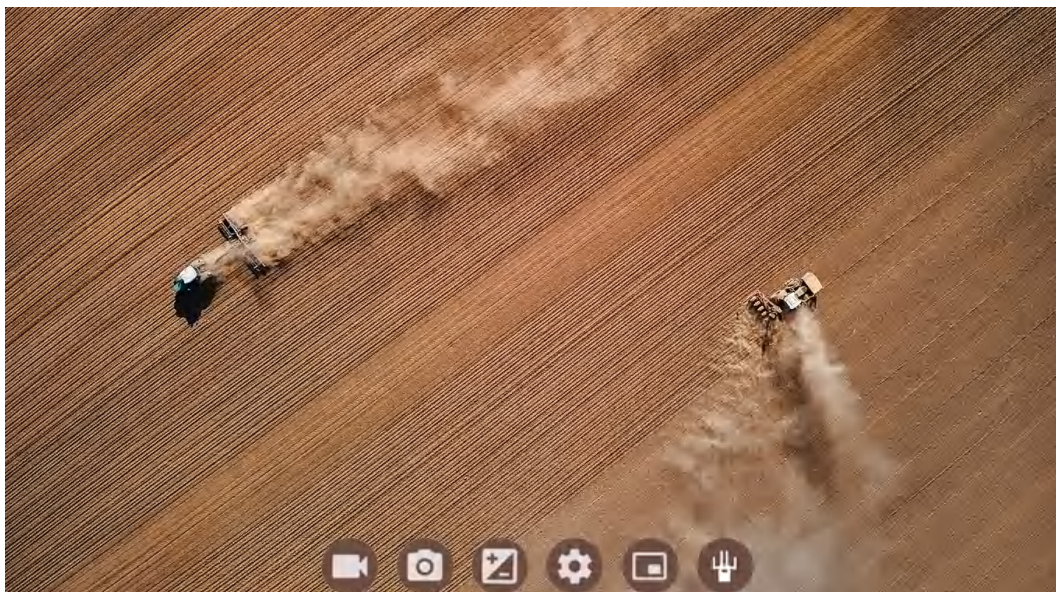
(4) Switch to Repeater Mode.



(5) Click [Save Settings]; a prompt indicating "Saving Successfully!" will appear.

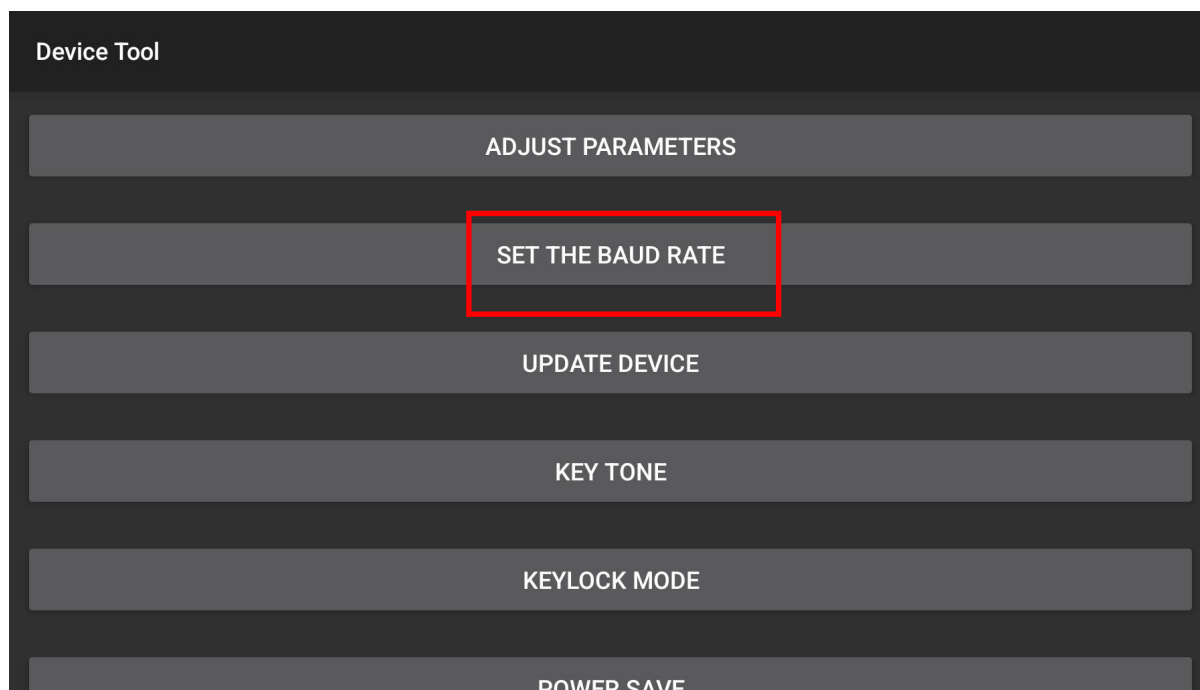


(6) Return to the video page, where the repeater's image transmission feed will be displayed. Both data transmission and SBUS can control the repeater device.



3. Repeater Baud Rate Settings:

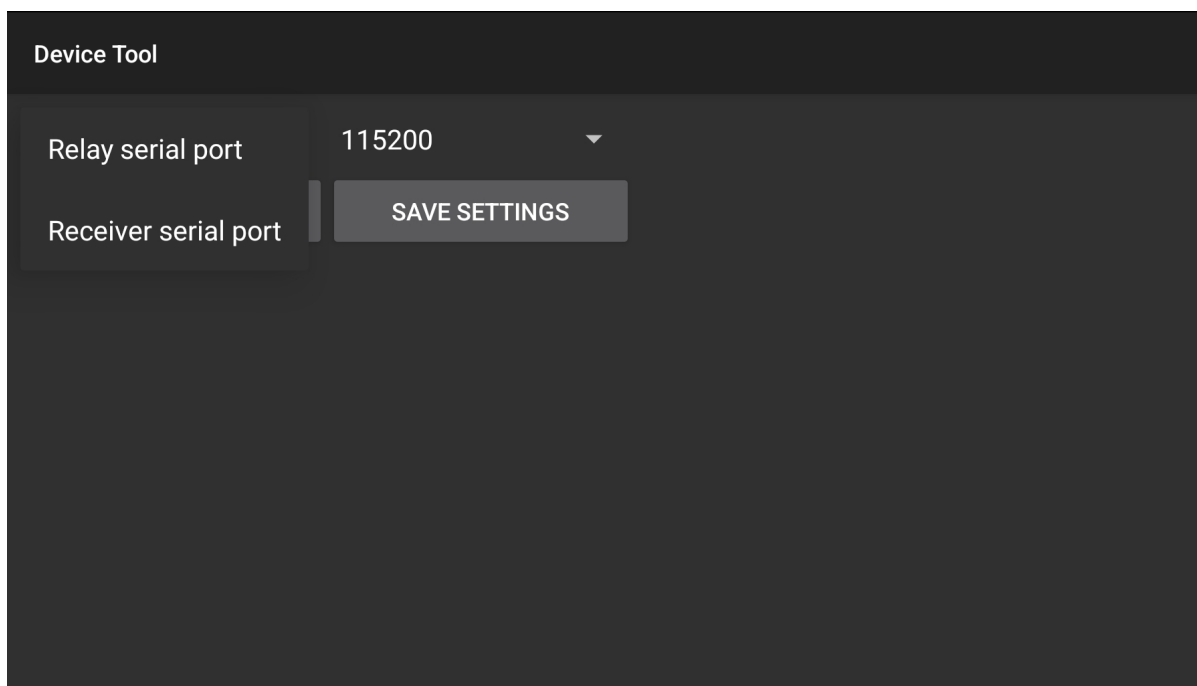
Open [Device Tool] → [Advanced Options] → enter the password "999" → select [Set The Baud Rate].



(1) Repeater Serial Port: Click [Read Settings], then set the baud rate for the repeater serial port and save.

(2) Receiver Serial Port: Click [Read Settings], then set the baud rate for the receiver serial port and save.

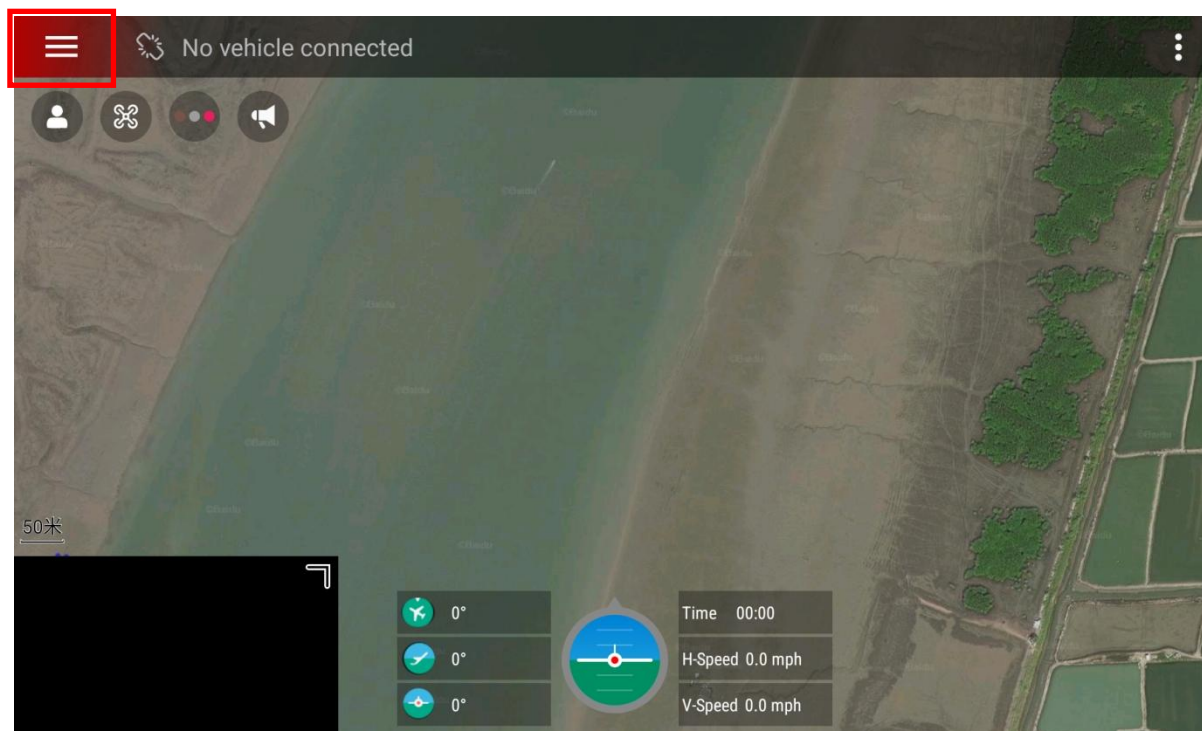
Note: Modifying the receiver serial port baud rate requires the receiver, repeater, and remote controller to be connected during configuration.



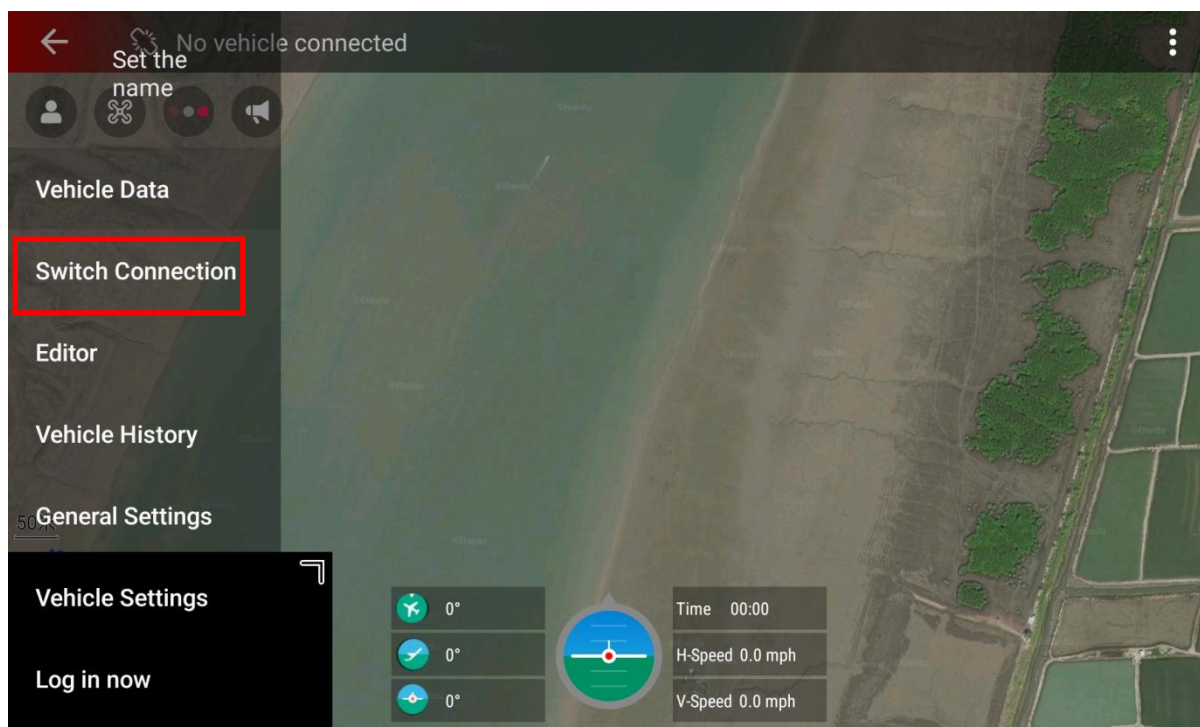
4. Switching Between Repeater and Receiver Using FLY Ground Station

If you are using our S2 or S2mini flight controller or APM open-source flight controller, you can use our FLY ground station.

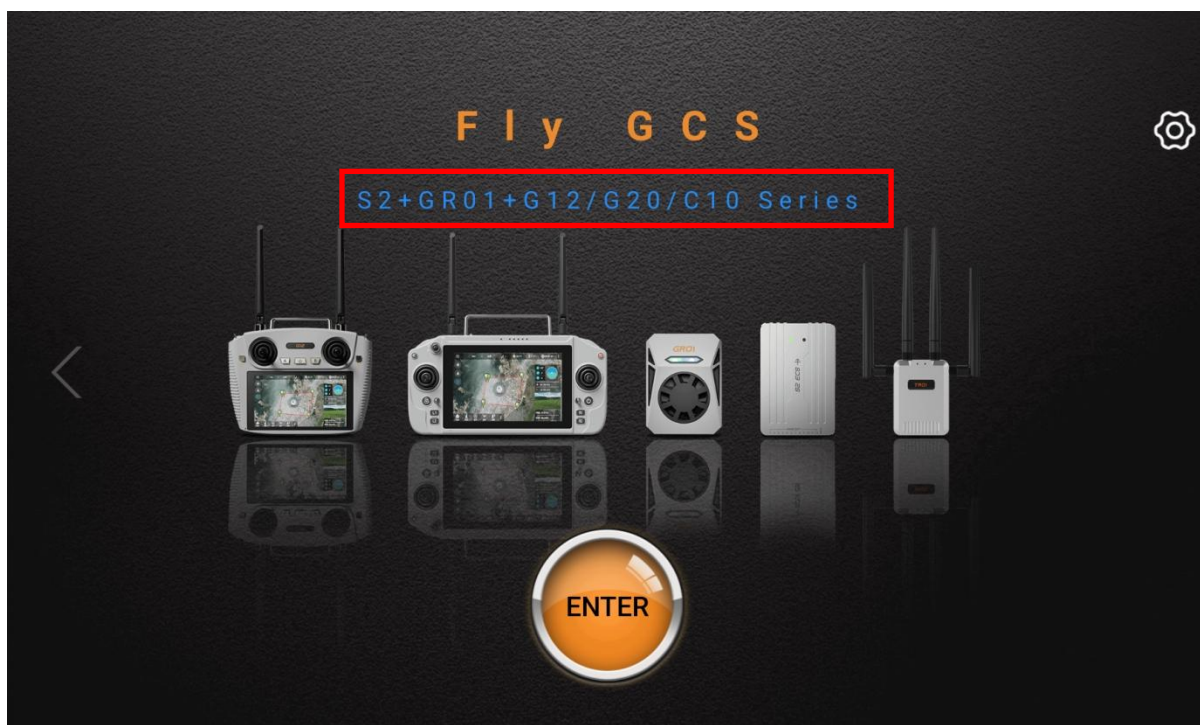
(1) Open Skydroid FLY and click the three horizontal lines in the top-left corner.



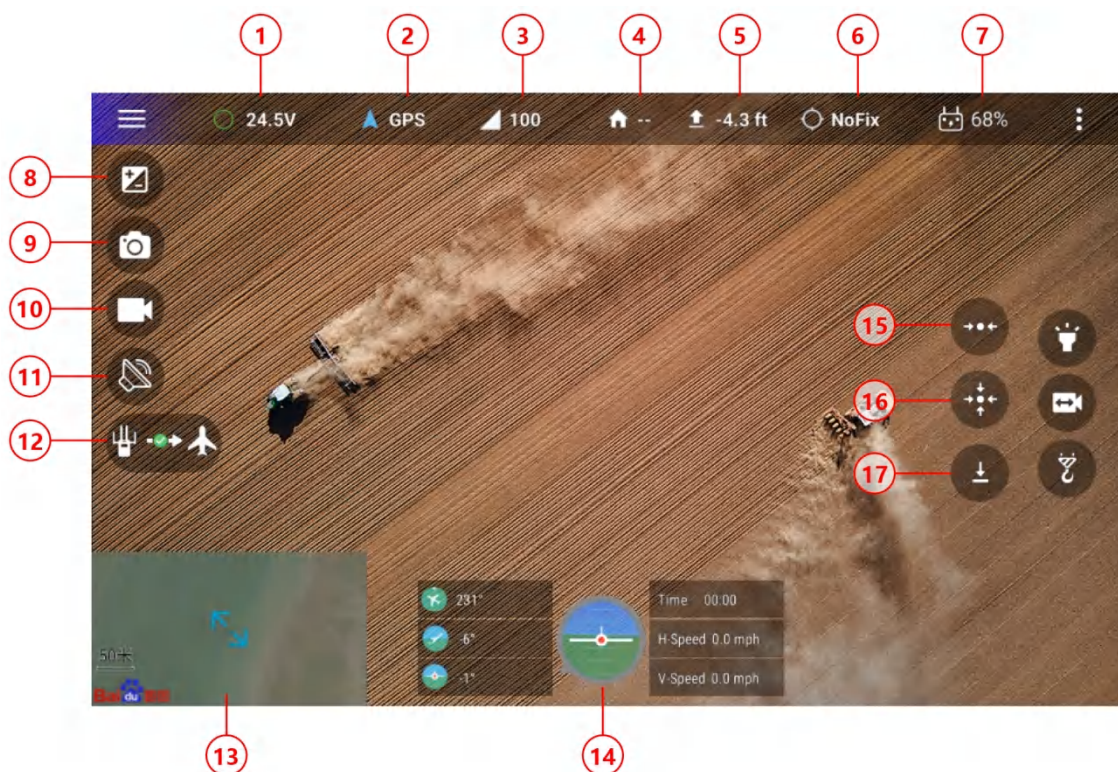
(2) Click [Switch Connection].



(3) Select the connection mode labeled with the repeater icon for the S2 + GR01 + G12/G20/C10 series, then click to enter.

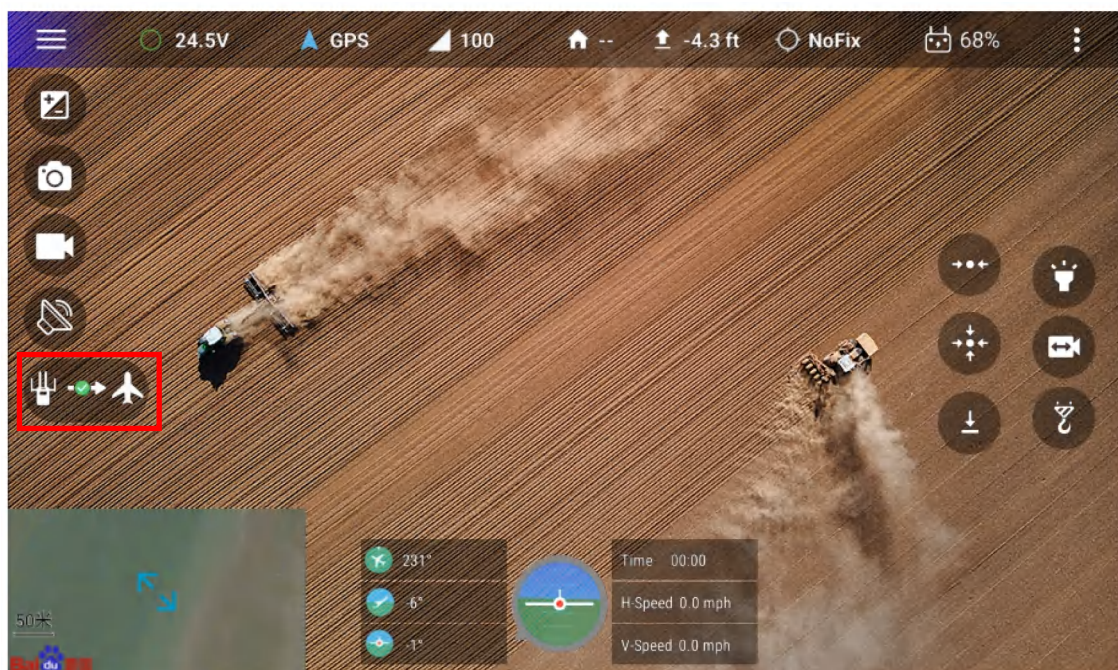


(4) Introduction to the FLY Ground Station Homepage



NO.	Annotation	NO.	Annotation
1	Battery Voltage	10	Video Recording
2	Flight Mode	11	Loudspeaker
3	Signal Strength	12	Repeater Mode Switch Button
4	Distance to HOME Point	13	Map
5	Altitude	14	Attitude Sphere
6	GPS Information	15	Horizontal Centering
7	Remote Controller Battery Level	16	Global Centering
8	Parameter Settings	17	One - key Descent
9	Take Photo		

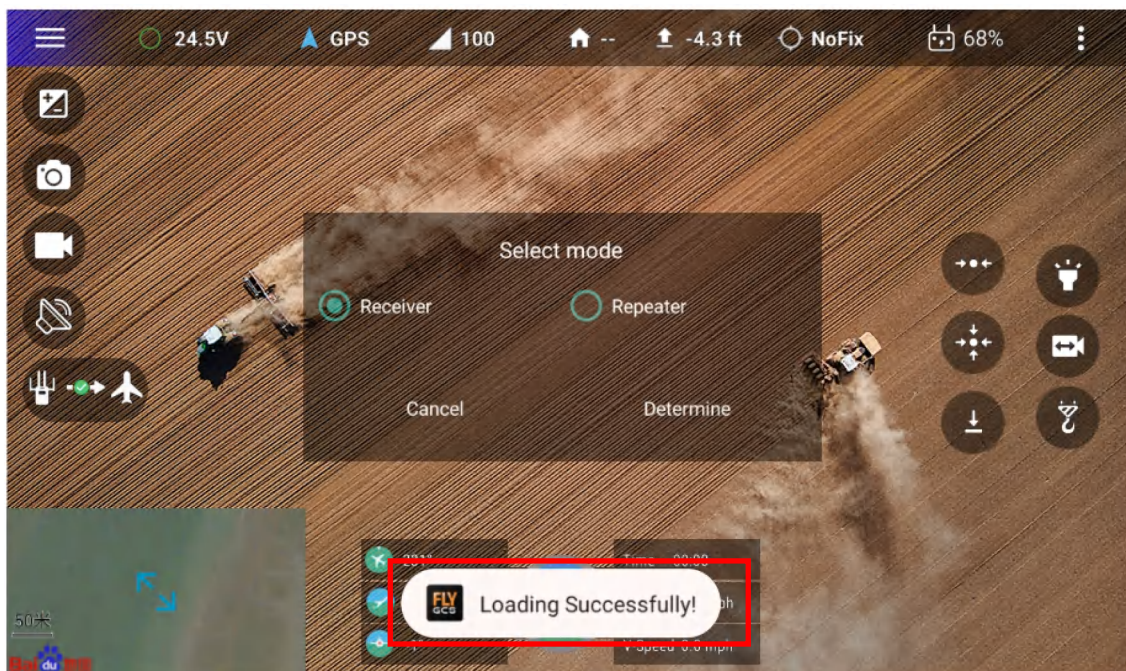
(5) On the homepage, open the image transmission page. When the remote controller is connected to the repeater, which is then connected to the GR01 (controlling the aircraft with the terminal GR01), an icon of "repeater → drone" will be displayed on the left side.



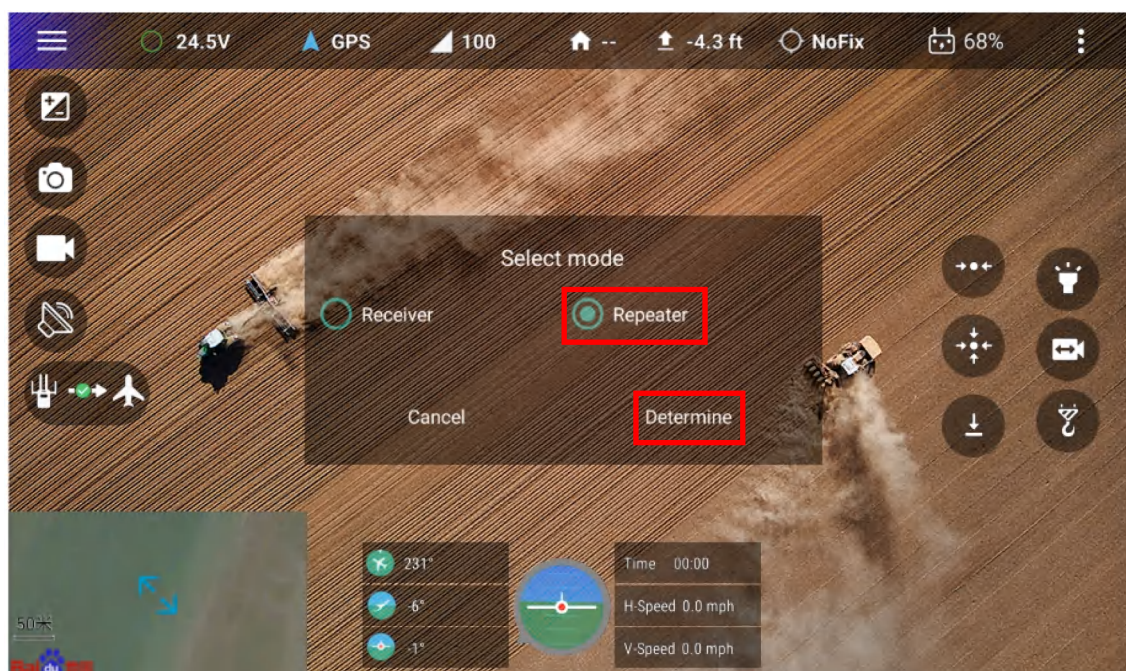
(6) Click the  icon; options for connection modes will pop up, and a "Loading Successfully" prompt will appear at the bottom.

Receiver Mode: The remote controller connects to and controls the receiver via the repeater (default connection).

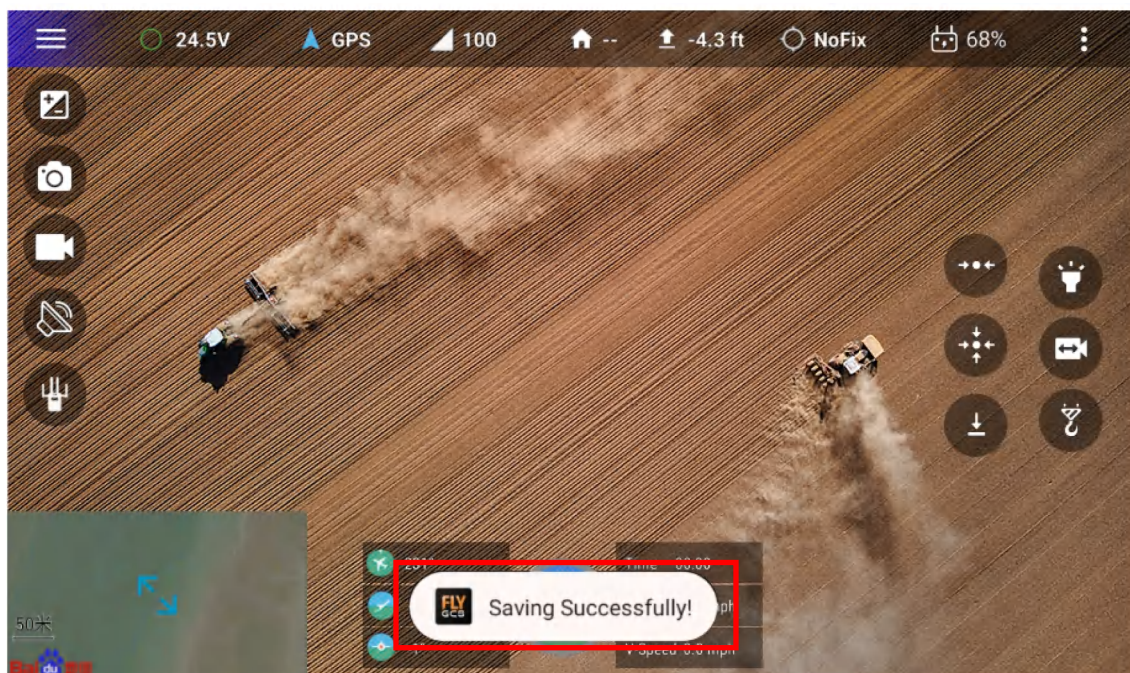
Repeater Mode: The remote controller connects to and controls the repeater device.



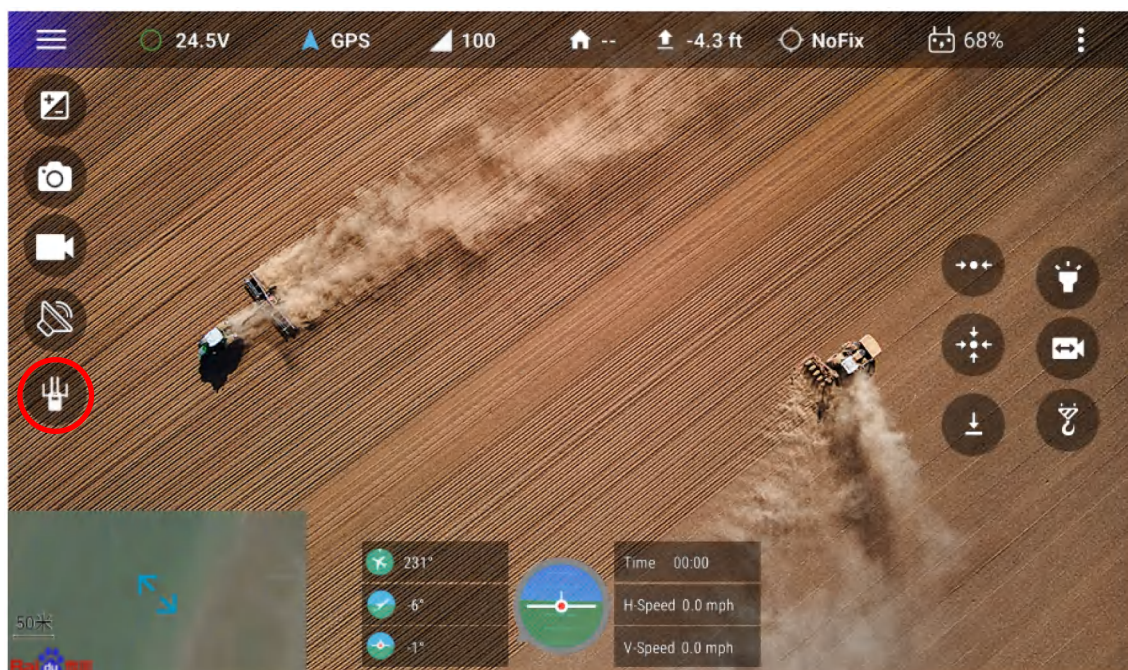
(7) Switching between the receiver and the repeater: Click [Connect to Repeater], then click [Confirm].



(8) The page will display a "Saving Successfully!" prompt.

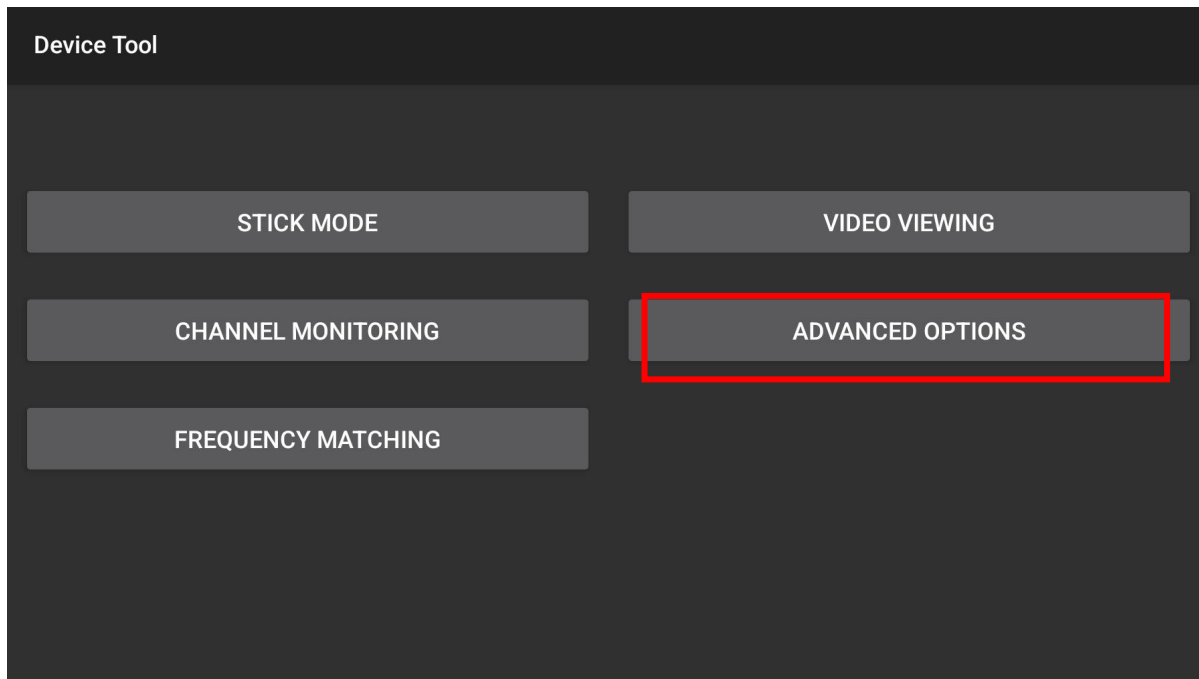


(9) The icon  on the left will change to the repeater icon, indicating that the switch has been successful and the repeater device is now controllable.

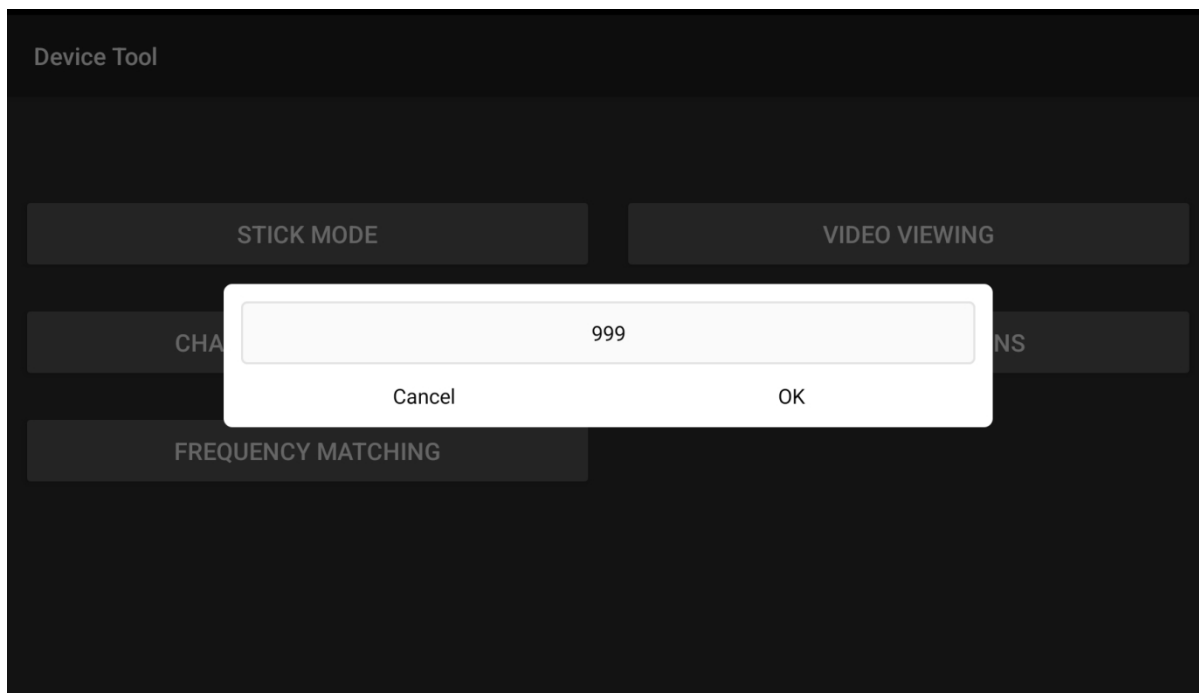


5. Repeater Firmware Update

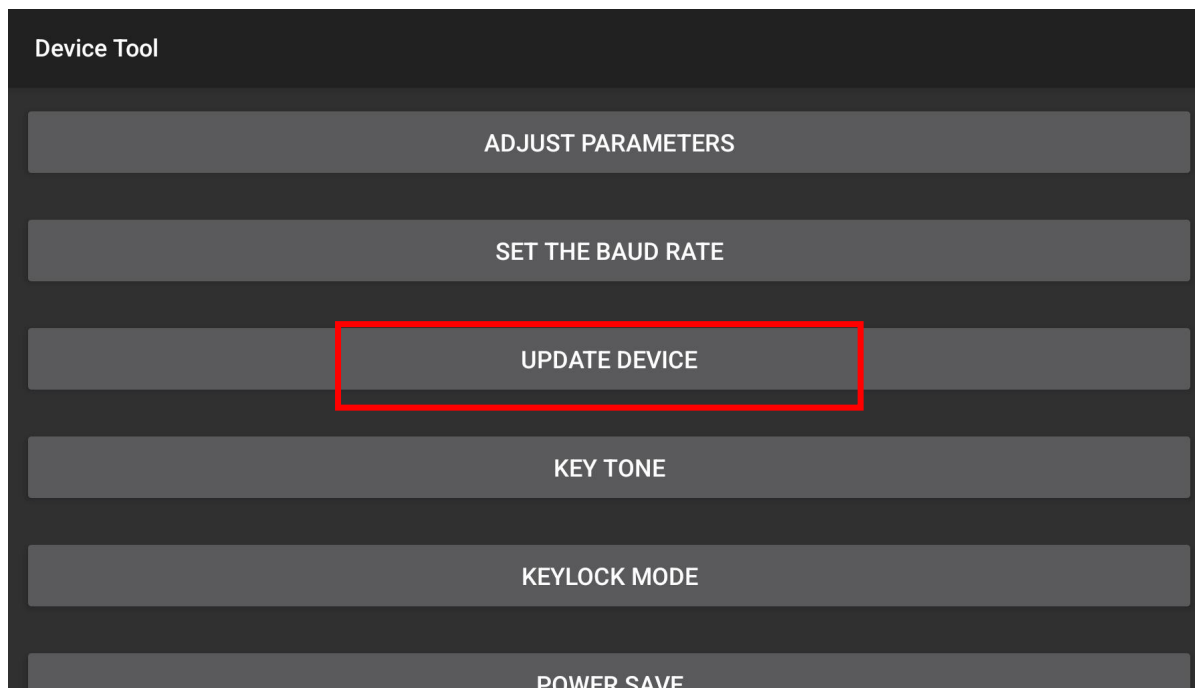
(1) With the remote controller connected to the repeater, open [Device Tool] → [Advanced Options].



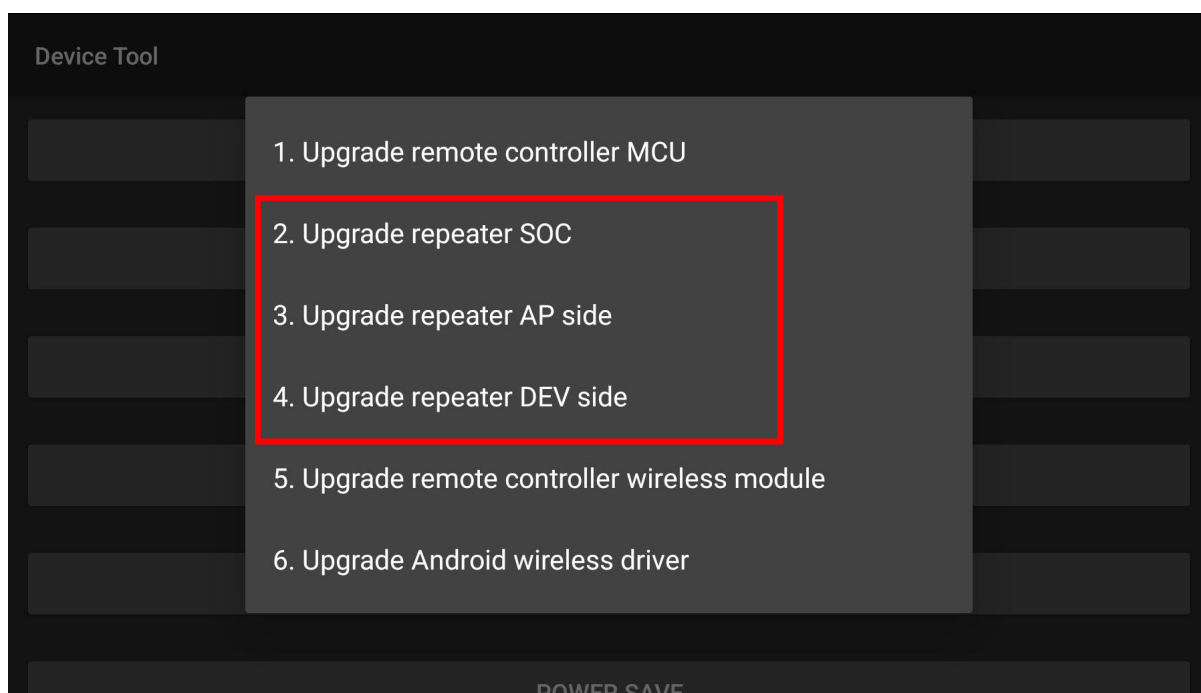
(2) Enter the password "999" and confirm to enter the repeater firmware update mode.



(3) Click [Update Device].



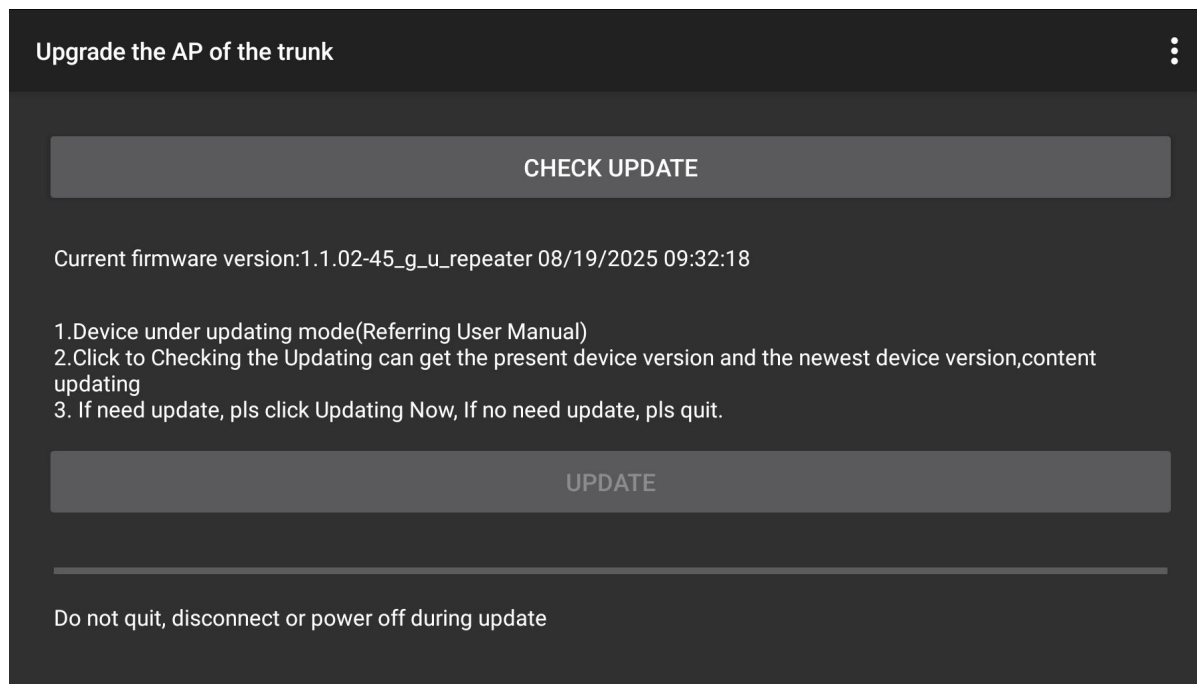
(4) Update the following firmware:[2. Upgrade repeater SOC. 3. Upgrade repeater AP side. 4. Upgrade repeater DEV side]



Upgrade Steps:

1.Check update.

2.Update.



Note: Do not quit,disconnect or power off during update.

VI. Product Specifications

TR01 Specifications			
Operating Frequency	2.4G/5.8G	Serial Port Baud Rate	57600/115200/921600
Power Supply Voltage	7.2-72V(XT30)	Operating Current	560mA/12V
Data Transmission Port	1 channel	Data Rate	Factory default: uplink 200kbps.Upload mode (optional) supports up to 1.2Mbps.Downlink: 10Mbps (max. 20Mbps with customization).(Note: Enabling upload mode may reduce communication range; recommended for short-distance use.)
Ethernet Ports	2 channels	Dimensions	248mm (length) × 140mm (width) × 20mm (height)
SBUS Output	1 channel	Weight	191g
PWM Interfaces	3 channels	Operating Temperature	-10℃~60℃
RF Power	23dBm@CE/FCC	Channel Bandwidth	1.25MHz/2.5MHz/5MHz/10MHz/20MHz/40MHz

VII. FAQ

1.Can the repeater be paired with other Skydroid models or third-party remote controllers?

Answer: The repeater can only be used with the Skydroid G-series links.

2.Can additional devices (e.g., two receivers) be added to the repeater?

Answer: No. The current supported configuration for the repeater is: 1 remote controller + 1 repeater + 1 receiver. Adding extra devices is not supported.

3.Can the repeater double the communication distance?

Answer: The main function of the repeater is to avoid obstructions. It can be mounted at an elevated position or installed on a drone to fly above obstacles.

VIII. After-Sales Address & Technical Support

After-Sales or Return/Exchange Address: 2nd Floor, Building A, Incubation Base, Fengze Technology Road, Quanzhou City, Fujian Province

Recipient: Mr. WangContact Number: 18876386351

After-Sales Service

When sending the product back for after-sales service, please enclose a note stating the following information:

Contact details

Return address for the repaired product

Reason for sending the product back

No processing will be done if the above information is missing.

Any updates to this manual will take effect without prior notice. Please continue to follow the official website at <https://skydroidglobal.com> for the latest information.