

SKYDROID 云卓

云卓科技（福建）有限公司



云卓 G30 GR03

用户手册

V1.2

此说明书不一定为最新版本，最新版本说明书请移步至官网资料下载中心-资料文档获取下载：

<https://www.skydroid.xin/#/downloadCenter>

注意

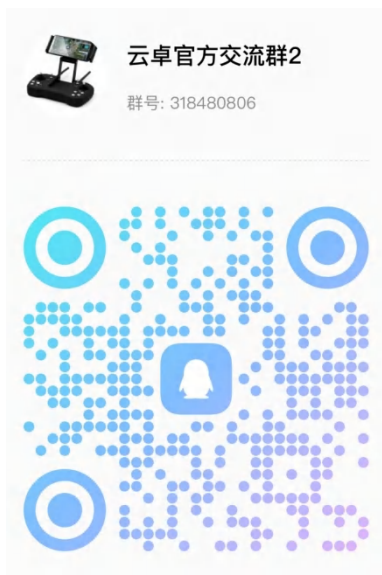
本产品使用以下词条因操作不当可能带来的潜在危险加以分级说明。

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



售后服务条款

- 1.本条款仅适用于云卓科技（福建）有限公司所生产的产品，云卓授权经销商销售的产品亦适用本条款。
 - 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。
 - 4.云卓产品自购买之日起七天内，在正常使用情况下出现非人为造成的质量问题，外观无损坏，凭保修卡及购机凭证在经销商处协商可以免费更换同型号产品；经销商在收到更换产品时烦请第一时间通知云卓公司予以备案更换。
 - 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。

目录

一、 概述	1
1. 产品特性	1
2. 主要用途及适用范围	1
3. 使用环境条件	1
4. 工作条件	2
二、 部件名称	3
1. 遥控器	3
2. 接收机	5
三、 准备遥控器	7
1. 遥控器充电	7
2. 天线正确打开	7
四、 使用、操作	8
1. 遥控器开机与关机	8
2. 系统桌面	8
3. 调节亮度	10
4. 调节音量	12
5. 语言设置	13
6. 与电脑传输文件	16
7. 设备助手介绍	18
8. 设备助手介绍 - ⑤高级选项（密码 999）	21

9. 遥控器对频	23
10. 图数传连接	24
11. 如何在 G30 遥控器 QGroundContro 地面站显示数传图传	30
11.1 QGC 数传设置	32
11.2 QGC 图传设置	36
12. 使用热点共享数传图传	40
13.1 共享数传	43
13.2 共享图传	47
13. 参数	49
14. 相关软件下载	51
五、保养保修	51
六、运输储存	51
附页一	53

一、概述

1. 产品特性

(1) G30 系列采用高通 6nm 处理器，搭载安卓 14（64 位）嵌入式系统，操作流畅，生态开放，可安装市面上绝大多数 APP。采用全新高功率、高带宽的 2.4/5.8G 双频无线模块，支持自动跳频和 MCS 自主动态调整，图数传距离可达 9KM。

(2) G30 支持 type-c 接口、SIM 卡、RJ45 网口、PPM 接口、USB-A（升级接口）；GR03 双路串口透传、双路网口、sbus、PWM 接口、音频输出接口等丰富接口，提供 SDK 开发包，支持视频悬浮，支持主流航电系统的地面站。采用气象硅胶、磨砂橡胶、不锈钢、ABS 使得拥有极致的手感的同时，也满足了户外使用的恶劣条件，G30 在机身，控制开关，各外设接口处均做防尘保护措施，确保设备在恶劣环境中的稳定流畅运行。

(3) 屏幕分辨率 1920*1200、10.1 英寸工业触摸屏+阳光可视屏，超大的屏占比，在阳光环境下依然可以清晰地查看实时显示信息。

(4) 采用高能量密度的锂离子电池，满电可工作 6-8 个小时，并使用标配充电器和线能实现 PD 33W 快充，一贯的荒野求生思维让您对设备的可靠性毫无牵挂。

2. 主要用途及适用范围

G30 适用于对车、船等无人设备的视频图像传输（需选配摄像头）、数据传输和操控。

3. 使用环境条件

注意：

- a) 环境温度：-10°C~55°C。
- b) 贮存温度：-20°C ~50°C。
- c) 相对湿度：Not exceed 85%。
- d) 大气压力：86kPa~106kPa。
- e) 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。
- f) 使用地点应具有防御雨、雪、风、沙、灰的设施。

警告：使用时不允许阳光长时间直晒。

4. 工作条件

供电方式和注意事项

G30 系列地面端内置一体式可充电锂电池，兼容市场标准 TYPE-C 接口，请使用原装充电器充电。

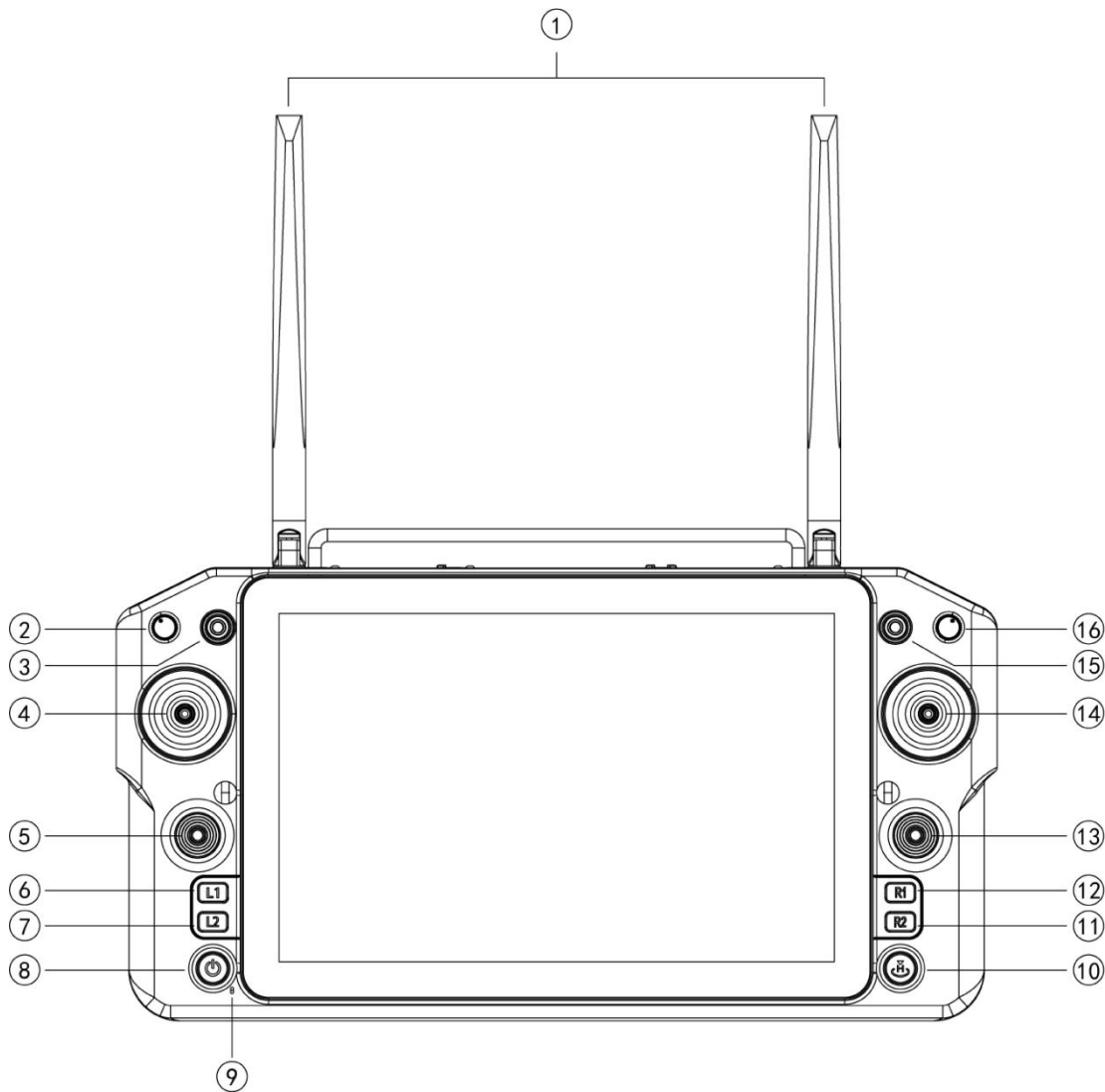
如在地面端充电时遇到冒烟、有异味、漏液的情况时，请勿继续给遥控器充电，请移送至本公司进行维修。

请勿在婴儿触碰区域给本产品进行充电，以免发生触电危险。

请勿在超过 60°C 的环境下对本产品进行充电。

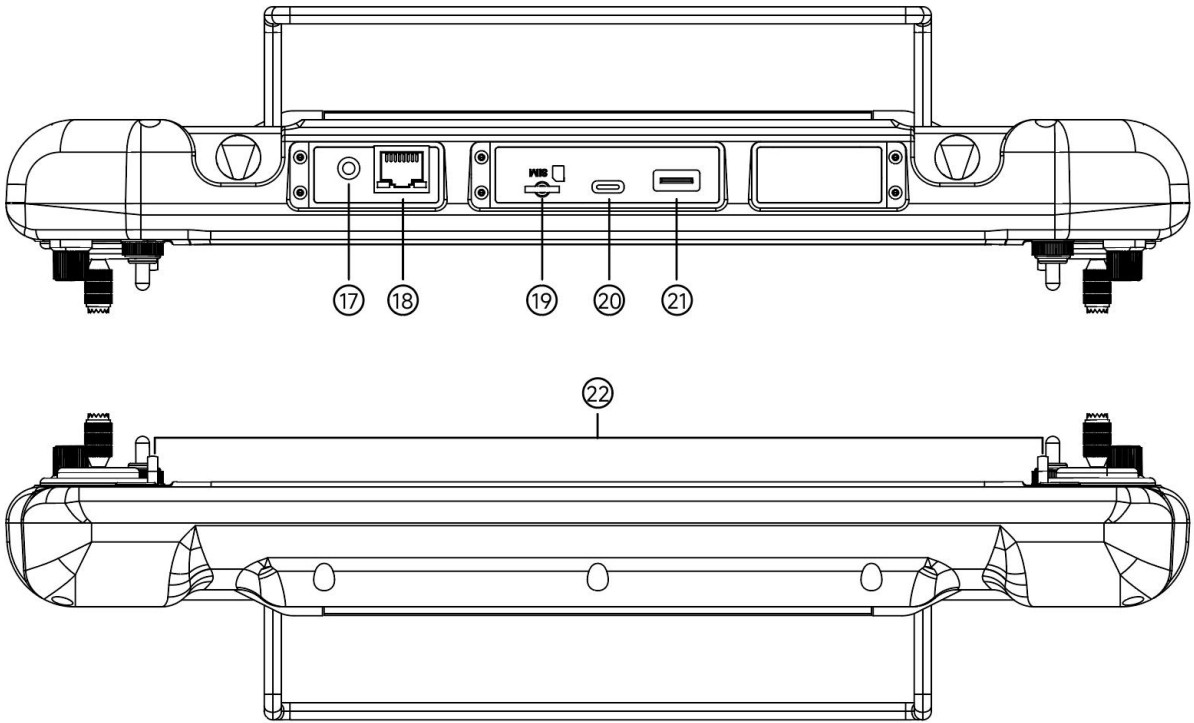
二、部件名称

1. 遥控器



序号	注解	序号	注解
1	2.4G/5.8G 4dBm 天线	9	麦克风
2	旋钮开关 AUX1	10	按键 H

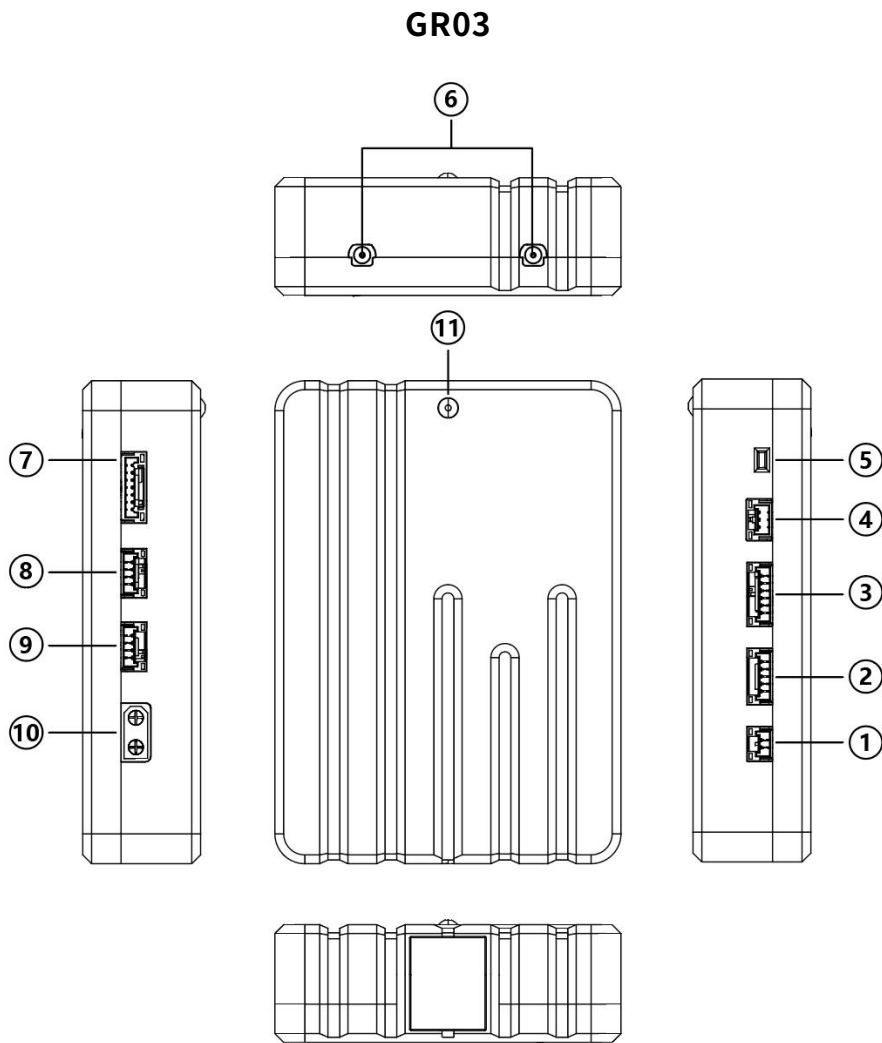
3	拨动三档开关 SW1	11	R2 按键
4	左摇杆 X1、Y1	12	R1 按键
5	左小摇杆 X3、Y3	13	右小摇杆 X4、Y4
6	L1 按键	14	右摇杆 X2、Y2
7	L2 按键	15	拨动三档开关 SW2
8	电源键	16	旋钮开关 AUX2



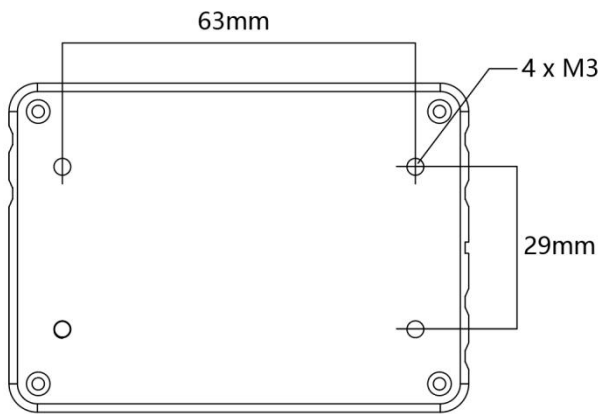
序号	注解	序号	注解
17	PPM 接口	21	USB-A 升级接口
18	RJ45 网口接口	22	挂绳接口
19	SIM 卡槽 (4G)		

20	TYPE-C 接口		
----	-----------	--	--

2. 接收机



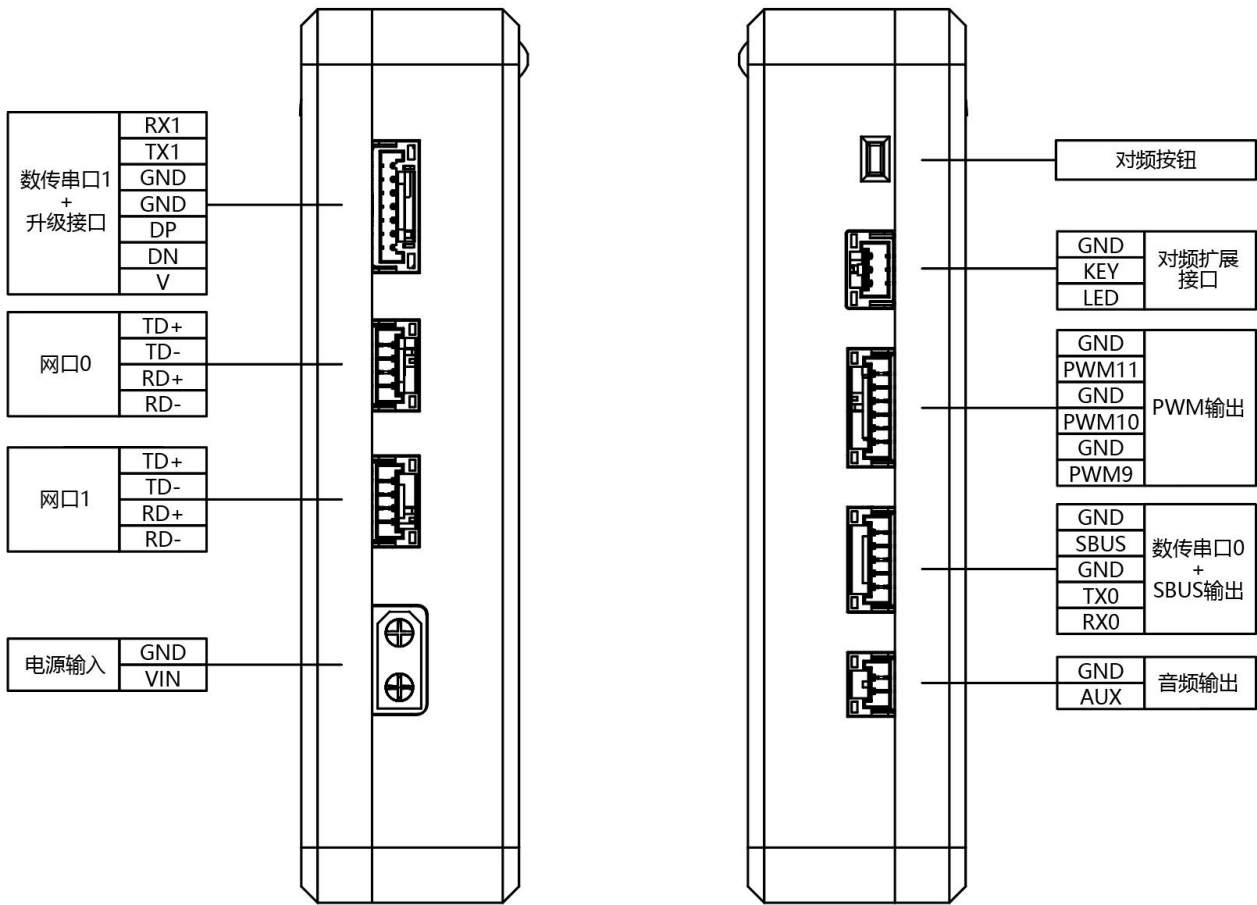
安装孔位图：



我们提供深度 3mm 的固定孔，使用国标 M3 螺丝。

序号	注解	序号	注解
1	音频接口	7	数传串口 1 和升级接口
2	数传串口 0+SBUS 输出	8	网口 0
3	PWM 输出	9	网口 1
4	对频扩展接口	10	电源输入口 (TX30 7.2V~72V)
5	对频按钮	11	对频连接指示灯
6	天线接口 (MMCX)		

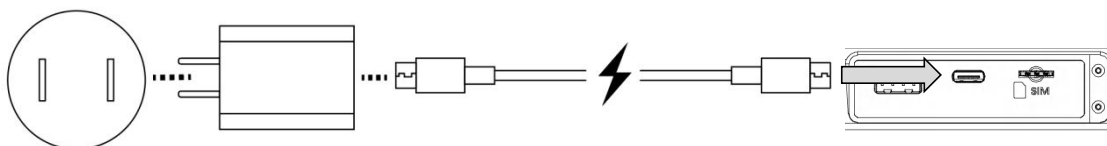
接收机接口定义：



三、准备遥控器

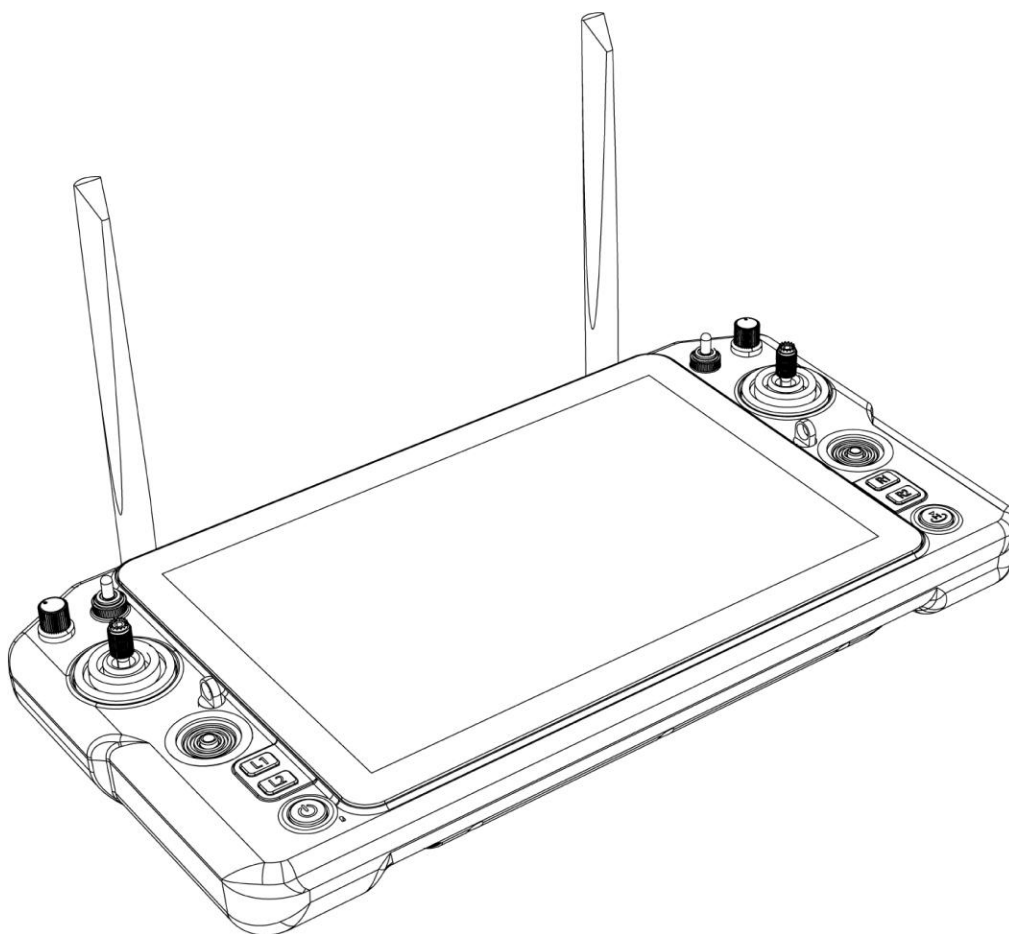
1. 遥控器充电

使用原装充电器充满约 3~4 小时



请使用原装充电器充电，为保持遥控器电池最佳状态，请确保每一个月对电池进行一次完全充电。

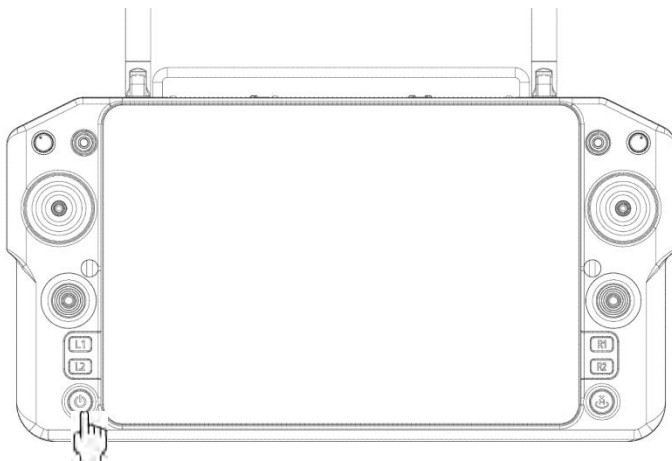
2. 天线正确打开



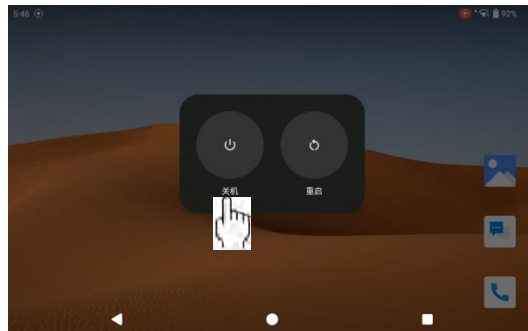
四、使用、操作

1. 遥控器开机与关机

长按电源键 2 秒可以开启遥控器，长按电源键 2 秒，再点击屏幕关机可以关闭遥控器。

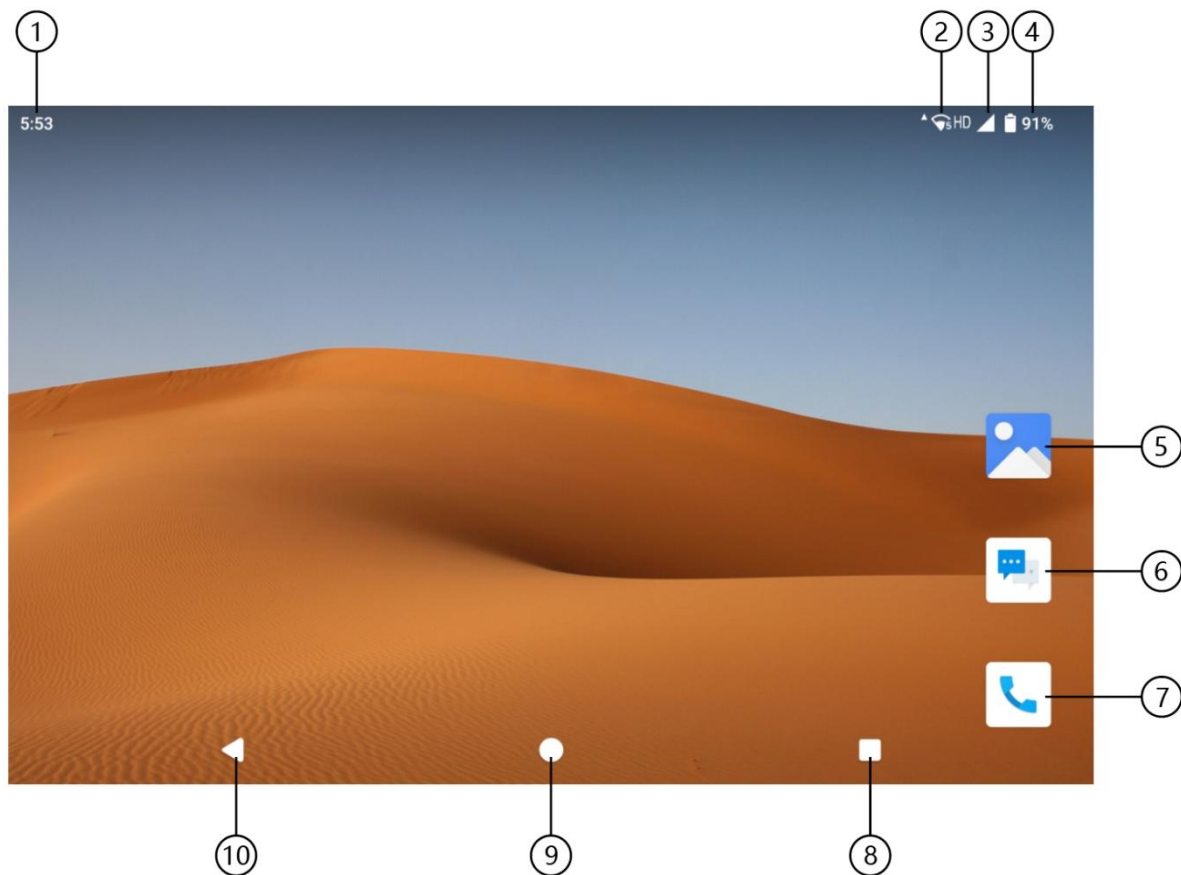


开机



关机

2. 系统桌面



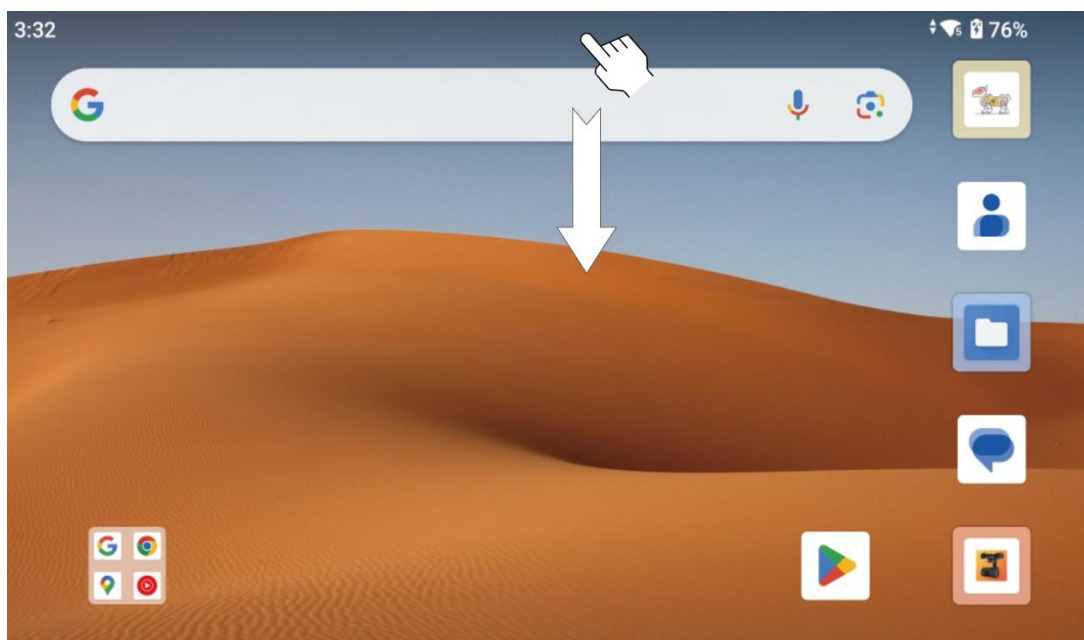
序号	注解	序号	注解
1	时间	6	短信
2	WIFI 信号状态显示	7	电话
3	SIM 卡状态显示	8	任务中心
4	电量显示	9	回到桌面
5	图库	10	返回操作

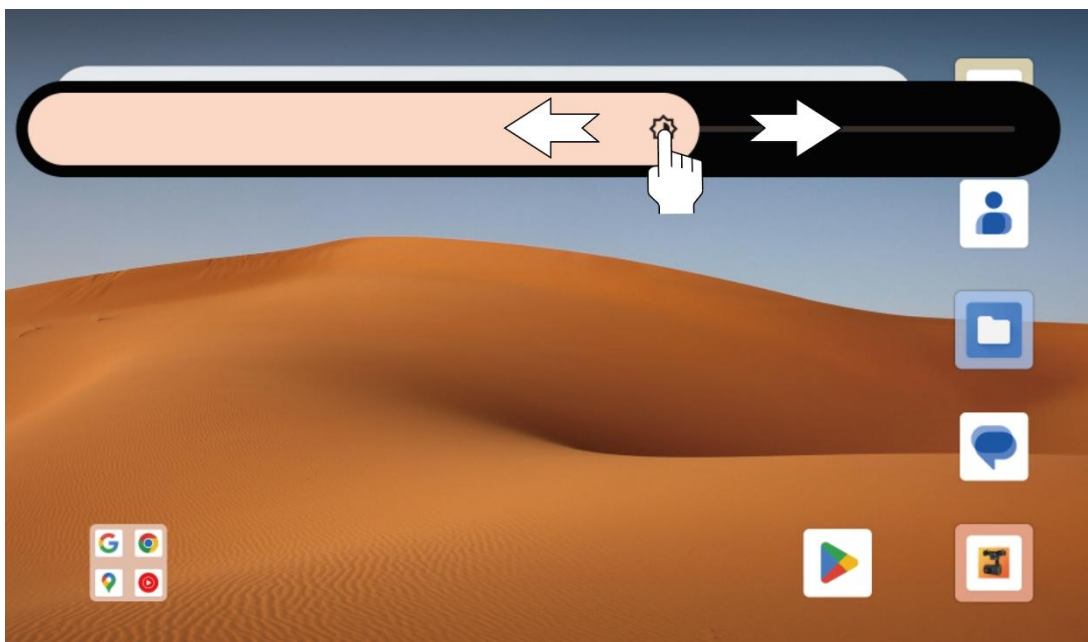
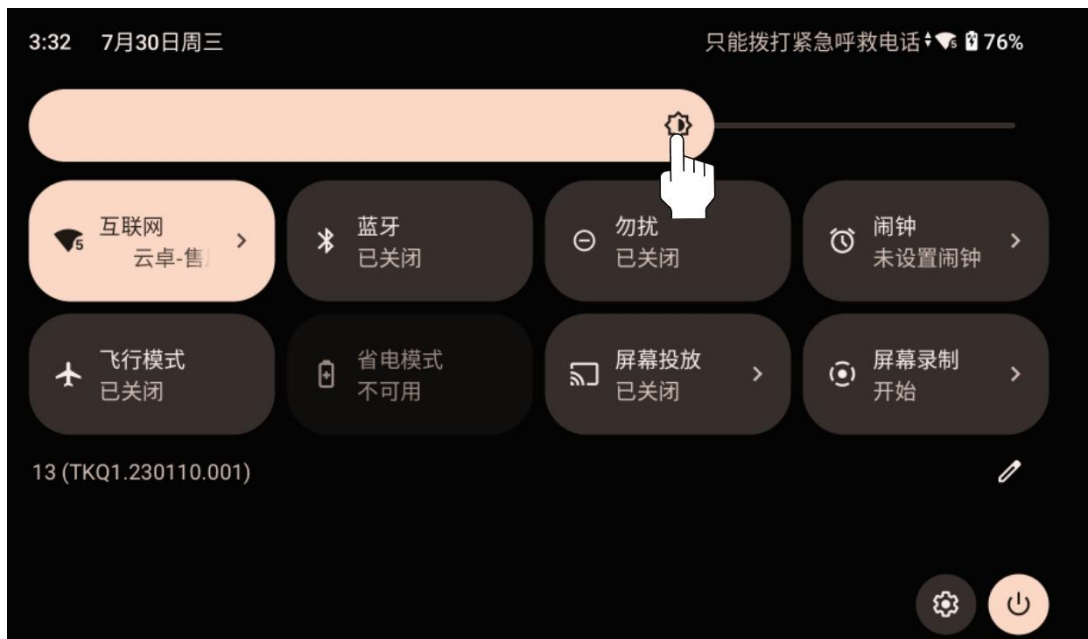
从屏幕底部边缘向上滑动可进入应用界面



3. 调节亮度

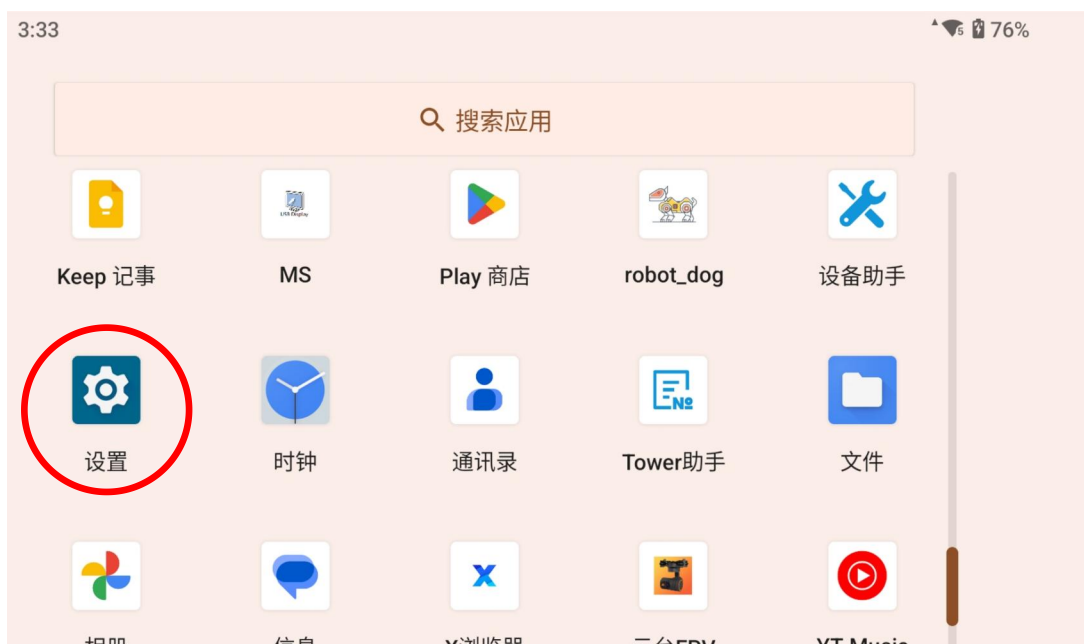
从屏幕顶部向下滑动可进入控制中心，拖动滑动条可调节屏幕亮度。

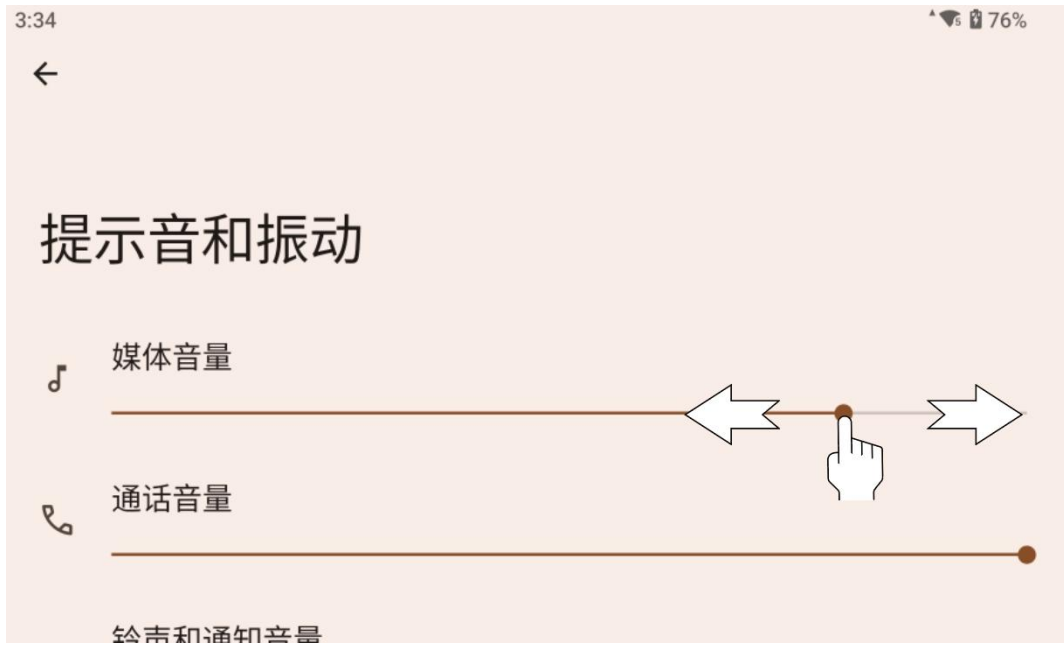




4. 调节音量

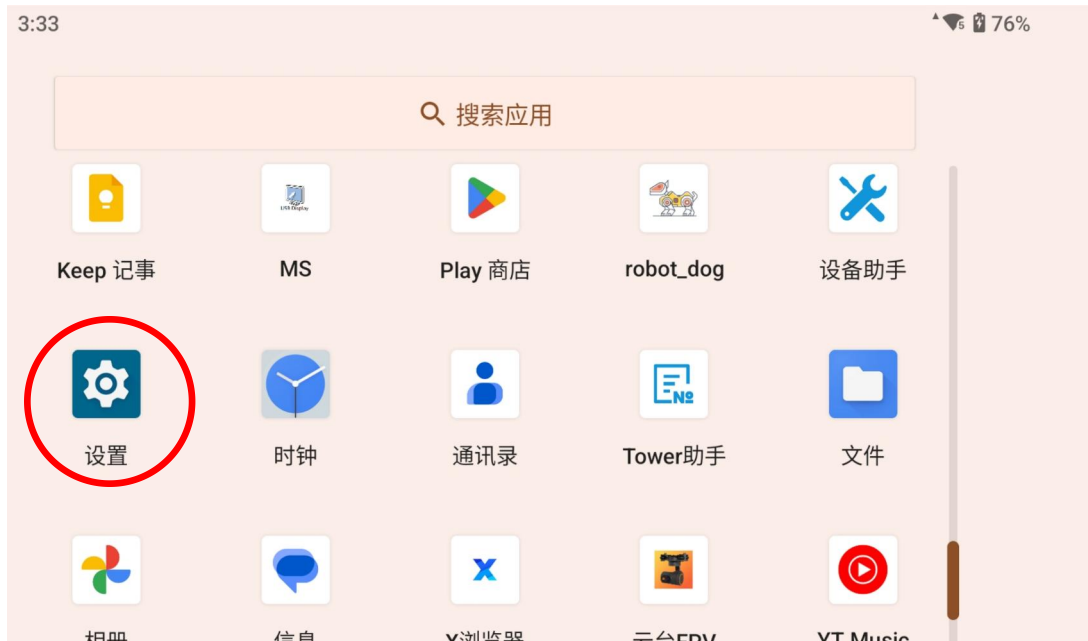
进入应用界面，点击设置，找到声音选项，拖动滑动条可调节音量大小。





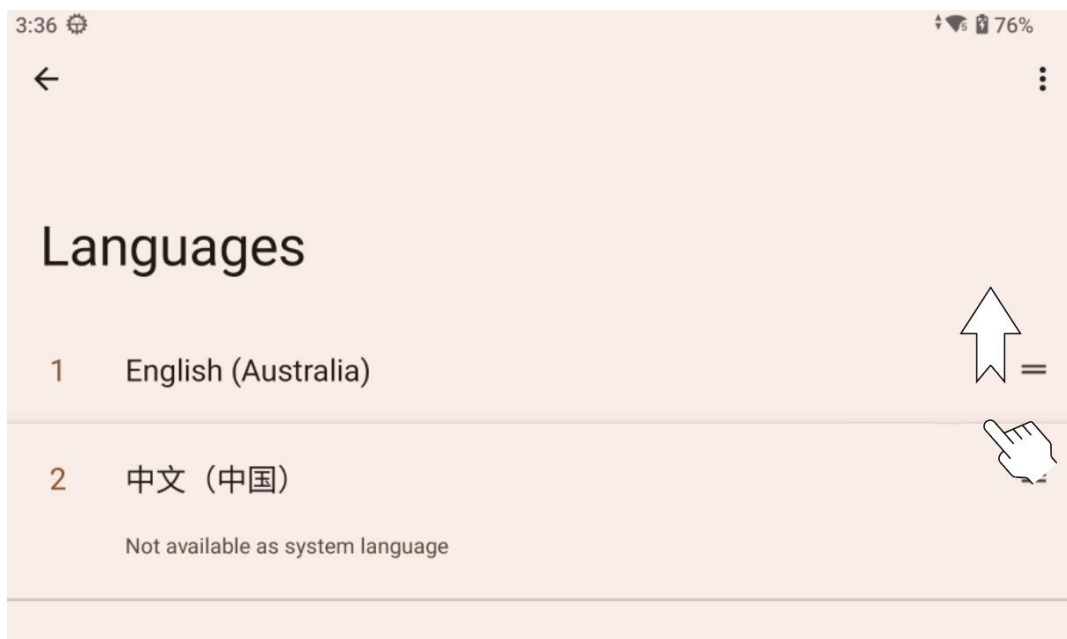
5. 语言设置

点击设置，选择系统，选择语言输入法，点击语言，选择添加语言，添加好语言后，将想要设置的语言拖 动到第一位即可修改系统语言。



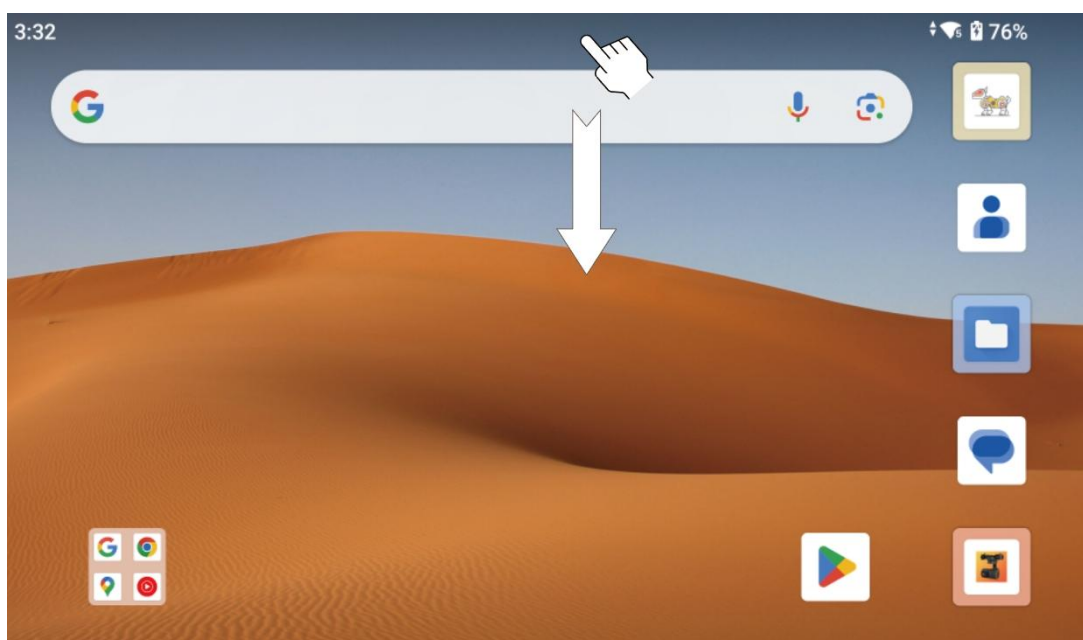


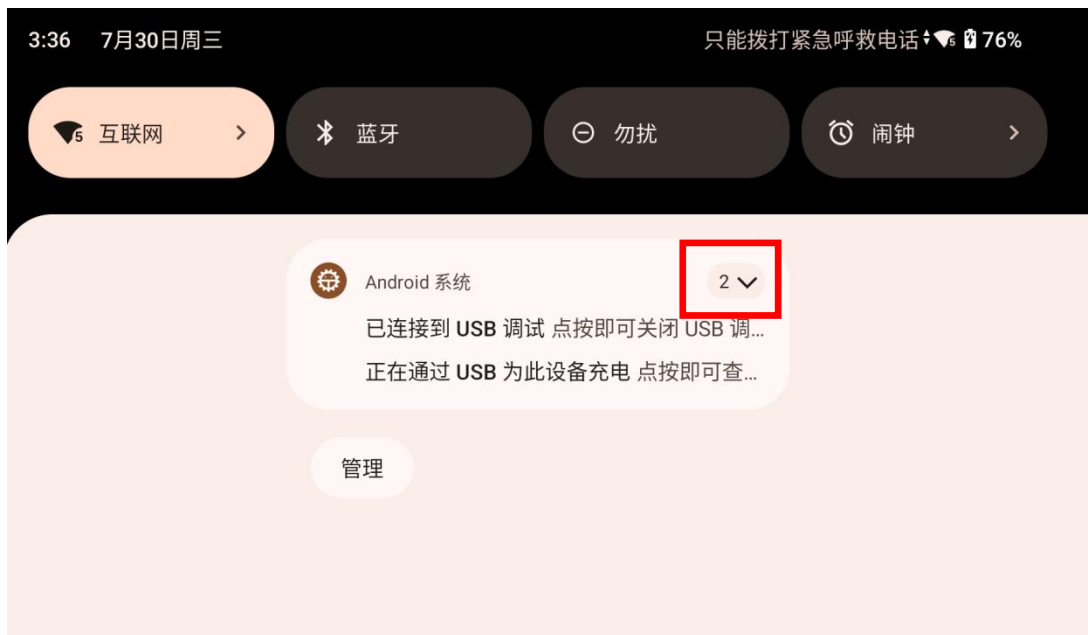




6. 与电脑传输文件

遥控器使用 type-c 口连接电脑，进入控制中心点击查看更多，选择传输文件。





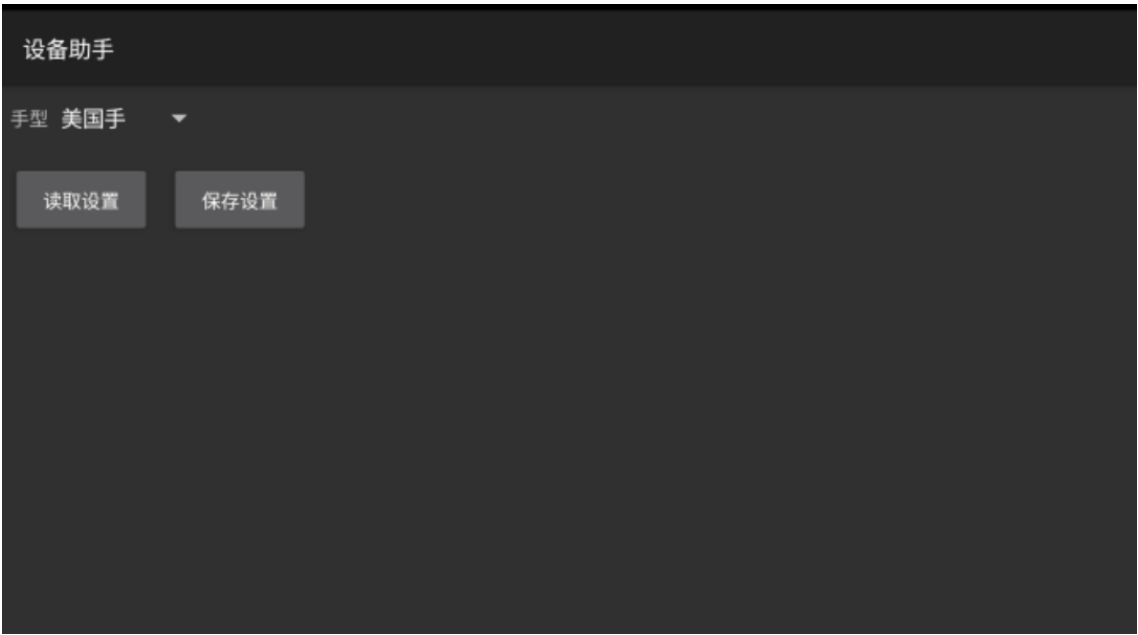


7. 设备助手介绍

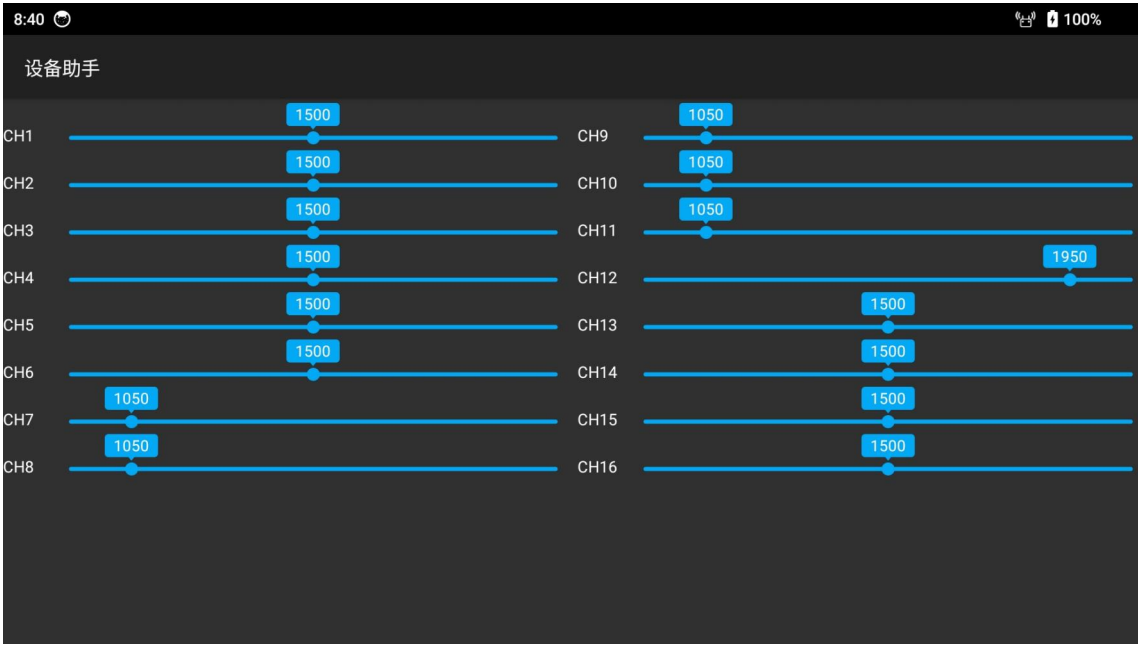
助手版本需要联网更新至最新版本。



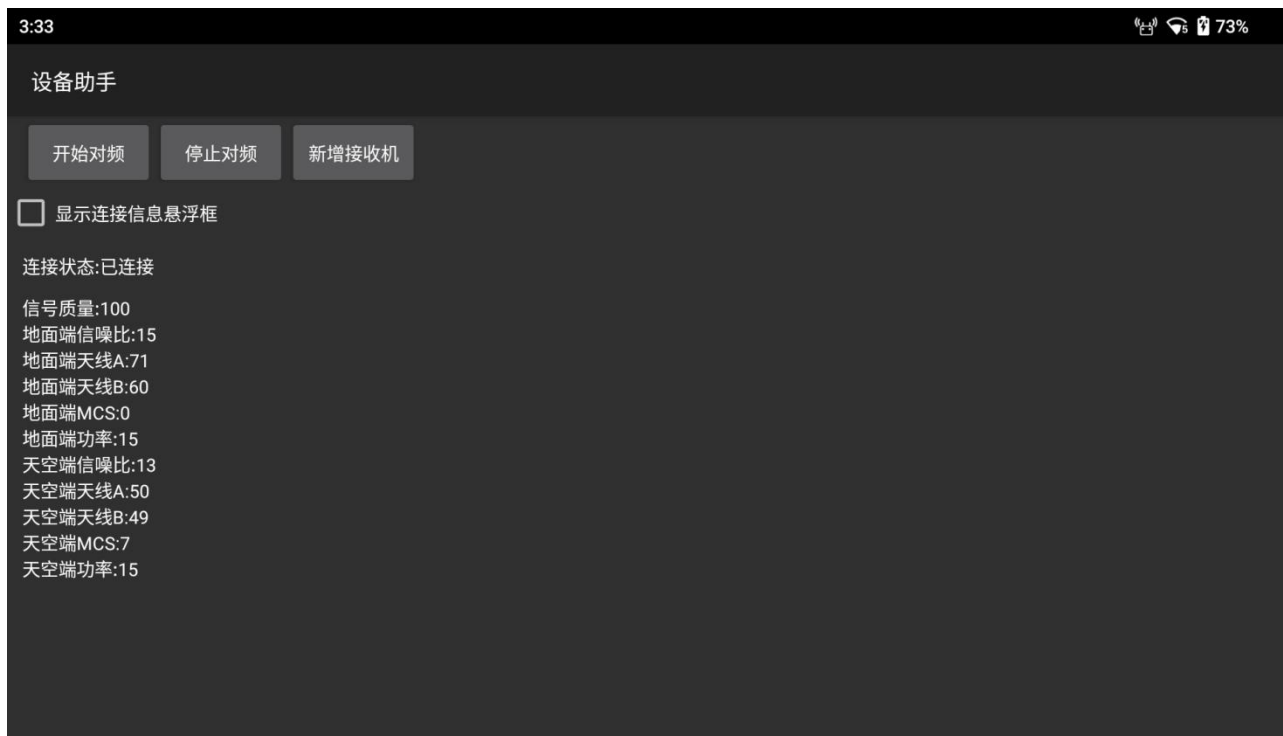
①手型设置：可设置遥控器手型，默认美国手。



②舵量查看：可查看遥控器各个通道的实时舵量值。



③对频：可查看对频状态和对频信息。



④视频查看：可查看相机回传视频。

⑤高级选项，可设置遥控器接收机的高级选项设置（下文会详细描述）

⑥链路模式。

8. 设备助手介绍 - ⑤高级选项（密码 999）



①遥控调参：可自定义按键通道、设置反向和修改舵量最大最小值。

The screenshot shows the '设备助手' (Device Assistant) interface. At the top, there are buttons for '读取' (Read), '保存' (Save), '默认配置' (Default Config), and '载入配置' (Load Config). Below these are four channel settings:

- 通道1** (Channel 1): X2, 反向 (Reverse) toggle, 最小舵量 (Min Throttle) 1050, 最大舵量 (Max Throttle) 1950.
- 通道2** (Channel 2): Y2, 反向 (Reverse) toggle, 最小舵量 (Min Throttle) 1050, 最大舵量 (Max Throttle) 1950.
- 通道3** (Channel 3): Y1, 反向 (Reverse) toggle, 最小舵量 (Min Throttle) 1050, 最大舵量 (Max Throttle) 1950.
- 通道4** (Channel 4): X1, 反向 (Reverse) toggle, 最小舵量 (Min Throttle) 1050, 最大舵量 (Max Throttle) 1950.

②波特率设置：修改接收机串口波特率。

The screenshot shows the '设备助手' (Device Assistant) interface. The '串口0' (Serial Port 0) settings are visible. A dropdown menu is open for '请输入波特率' (Please enter baud rate), showing the following options: 9600, 57600, 115200, and 921600. There is also a '读取设置' (Read Settings) button.

③升级设备：

- 1.升级遥控器 MCU 固件：升级遥控器摇杆单片机的固件；
- 2.升级接收机无线模块：无线升级接收机的射频固件（必须先升级接收机，接收机需要

通电并和遥控器连接后方能升级)；

3.升级遥控器无线模块：升级遥控器的射频固件；

4.升级安卓无线驱动：升级安卓的无线驱动；

5.升级 GR03 SOC：升级 GR03 SOC 的固件；

④按键声与长按设置：可设置按键音和按键的长按设置。

⑤配置按键自锁模式：可设置按键（如 L1）的自锁或非自锁模式。

⑥配置按键掉电保存：可设置按键掉电后是否保存。

⑦配置混控和油门死区：可设置混控开关和油门死区。

⑧上传/下载模式：可设置上传模式（打开上传模式会影响距离）

⑨SN：遥控器查看 SN。

⑩教练模式：可设置 PPM 输出或教练控模式。

⑪接力模式：可以设置接力模式和悬浮框。

9. 遥控器对频

方式一：

①遥控器开机、接收机通电，通电后蓝灯间歇闪烁后，等待 30 秒。

②长按接收机对频按钮，直到蓝灯快速闪烁后松开。

③打开遥控器上的设备助手，点击对频-->开始对频，确认对频，

单个接收机对频可点击停止对频，等待显示对频成功。

④对频成功接收机指示灯将会蓝灯常亮。

方式二：

①给接收机快速上电 4 次(每次上电间隔 1 秒),第 4 次将自动进入对频,蓝灯快速闪烁。

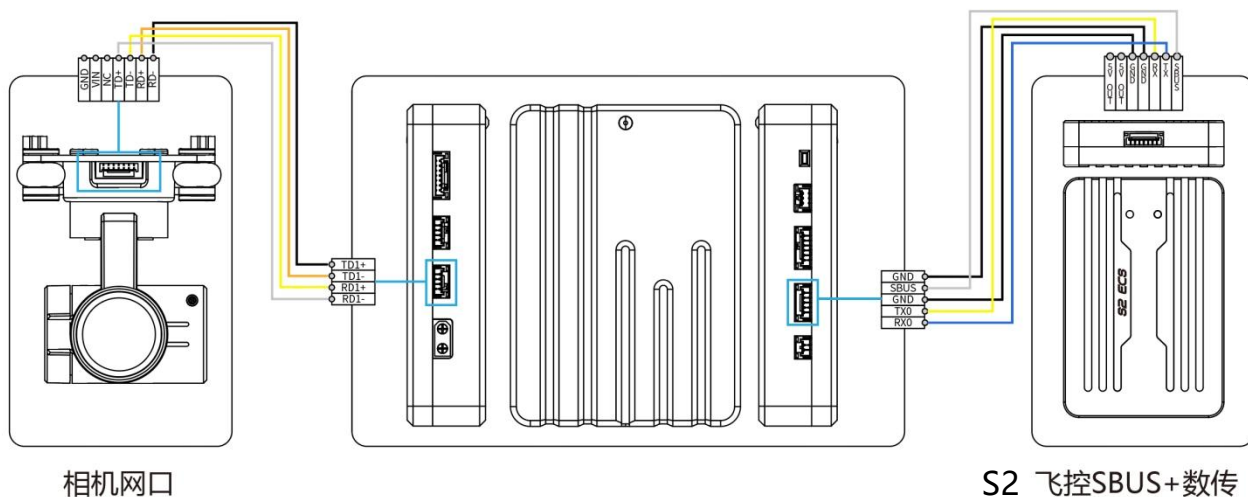
②打开遥控器上的设备助手，点击对频--> 开始对频，确认对频，等待显示对频成功。

③对频成功接收机指示灯将会蓝灯常亮。

注：对频时请保持遥控器和接收机距离在 50CM 以内。

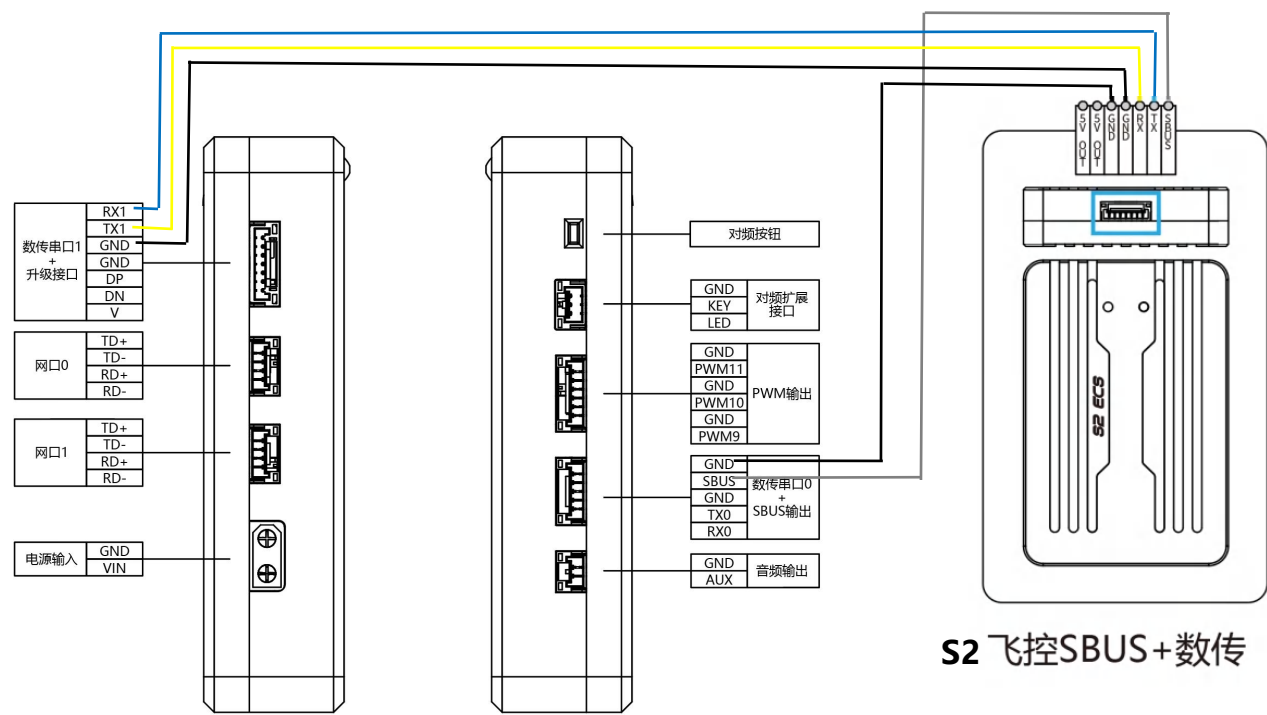
10. 图数传连接

网口和串口 0 连接



按照上图接线，接收机的 SBUS+数传接口连接航电系统 SBUS+数传接口，接收机的网口连接相机网口（**注意：**设备供电和其他接线请参考对应说明书）。

串口 1 接线图



(1) 图传



以云卓 C10Pro 为例，摄像头供电并且连接至接收机网口，打开云台 FPV 即可看见图传画面；

云台 FPV app 下载地址：<https://file.skydroid.xin/SkydroidCameraFPV.apk>

若使用第三方摄像头，摄像头网段需要设置为 144 网段（192.168.144.XXX），打开设备助手--视频查看--点击下方设置按钮--视频流地址--自定义，输入摄像头的 RTSP 拉流地址。

注：第三方摄像头 RTSP 地址需要找厂家要。

若使用 FLY GCS 地面站软件

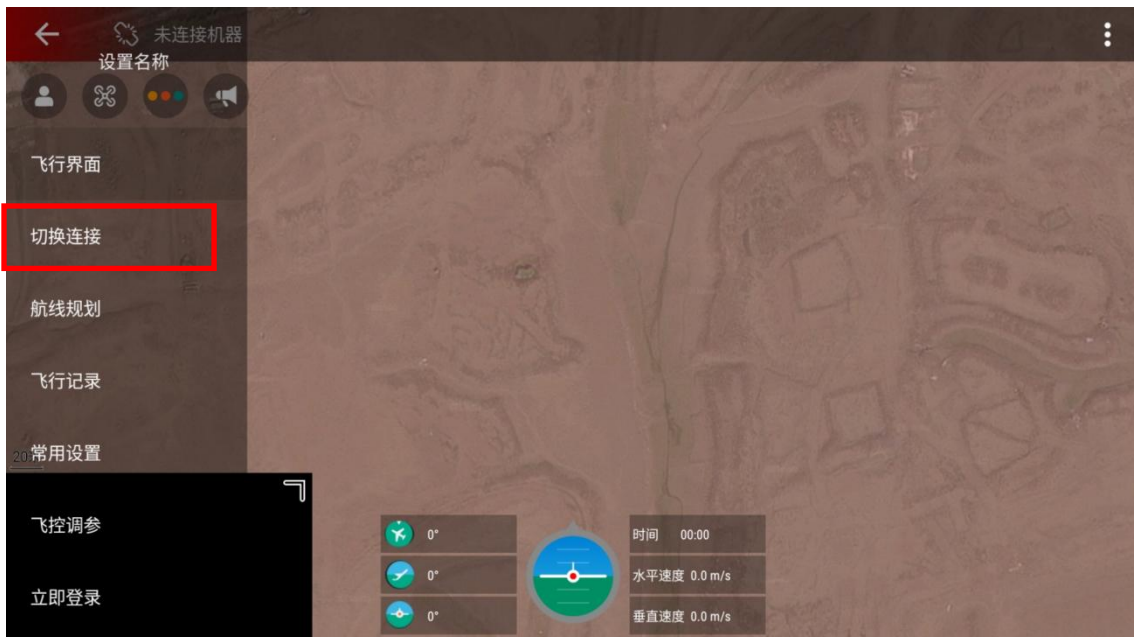
Skydroid Fly app 下载地址：<https://file.skydroid.xin/SkydroidFly.apk>

则在常用设置--其他设置--用户界面-- 视频窗口--C10。



(2) 数传

以云卓 FLY GCS 为例，进入地面站，点击左上角，进入切换连接界面。



选择 S2+GR03+G12/G20/G30/C10 组合点击进入，点击齿轮图标，选择连接方式，选择当前航电系统连接接收机的串口，再点击进入。

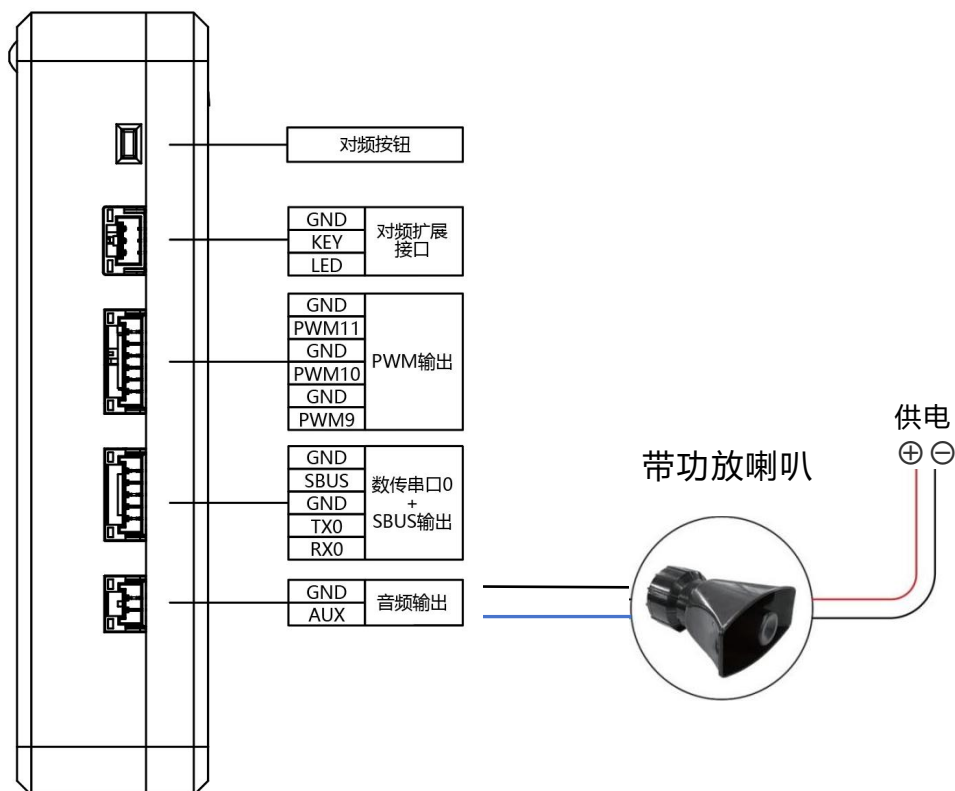


注：若连接不成功，请检查

- ①接收机串口波特率是不是与航电系统数传口波特率一致（S2 航电系统的波特率为 921600，可在助手-高级-999-波特率设置）；
- ②数传接线定义是否正确（RX 接 TX）。

（3）喊话功能

接收机音频接线图



1. 切换到视频页面，点击  图标，弹出下列喊话设置。

2. 单次喊话：使用遥控器自带的麦克风进行单次喊话；

3. 循环喊话：使用遥控器自带的麦克风进行循环喊话；

注意：使用喊话功能，需要嘴巴靠近遥控器麦克风位置进行说话。

4. MP3：使用 MP3 文件进行喊话播放；

5. 文本：使用文字进行喊话播放；

6. 播放：切换播放/停止播放；

7. 流畅音质：切换播放的音质。流畅音质/高清音质。



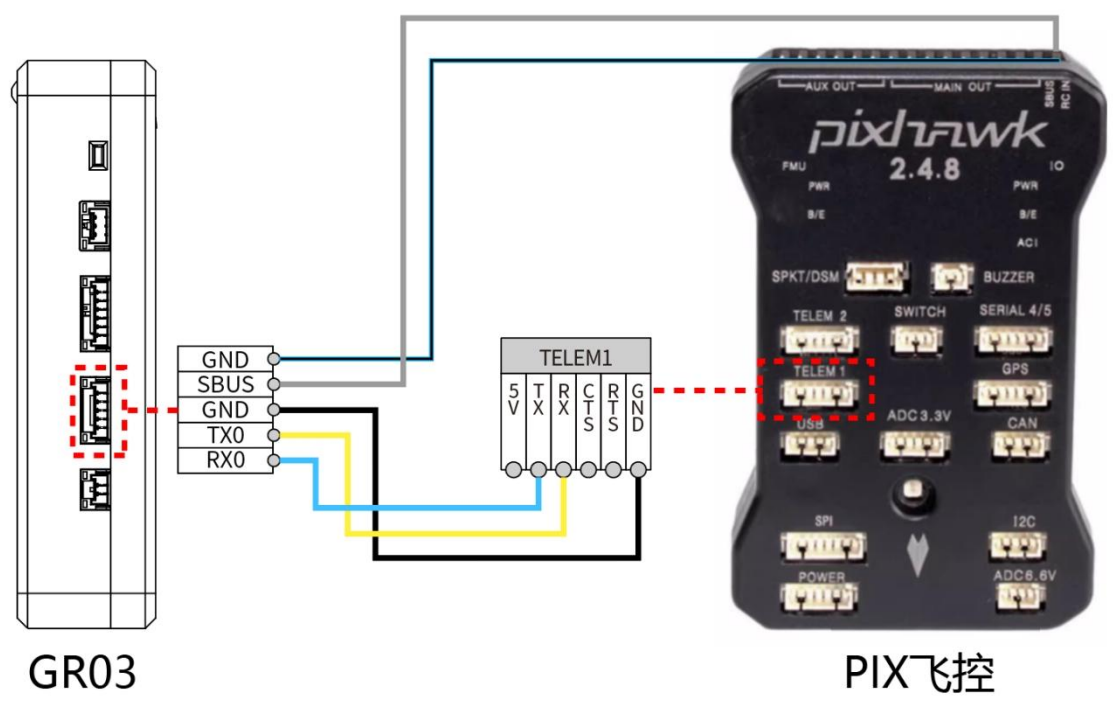
11. 如何在 G30 遥控器 QGroundContro 地面站显示数传图传

开源航电系统数传线连接接收机数传口,以 QGroundContro 地面站(以下简称为 QGC 当前版本 V4.4.3 64 位) 为例做参考连接数传, QGC 官网下载链接

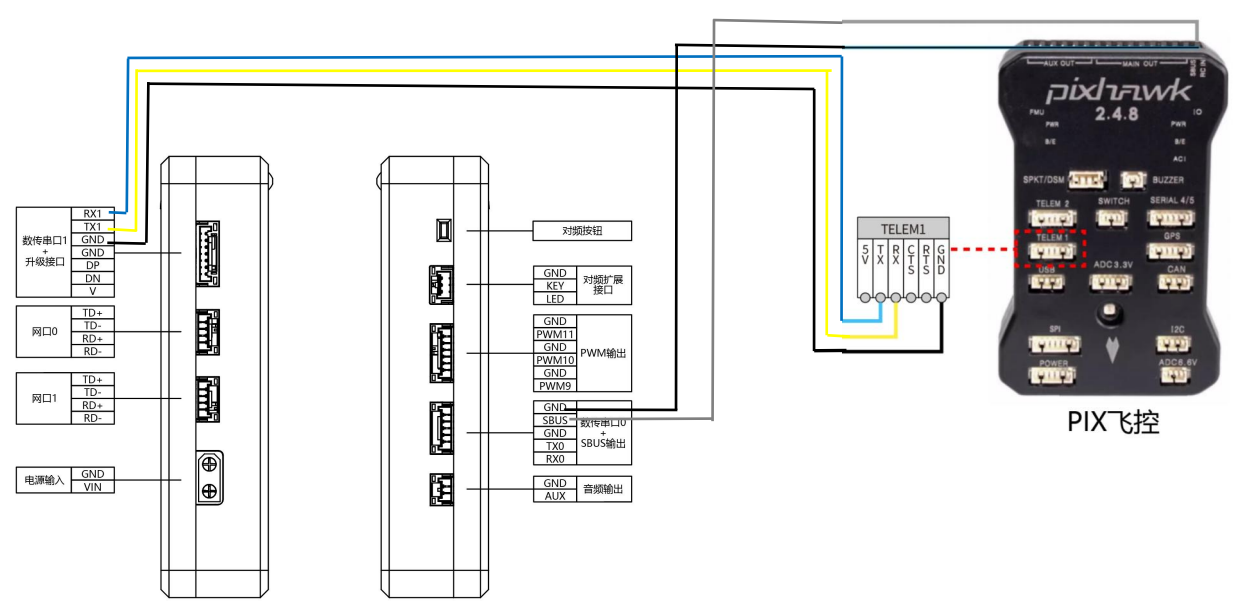
<http://qgroundcontrol.com> 。

注意：S2 航电系统只能用云卓 FLY 地面站，不要使用 QGC 连接。

开源 PIX 航电系统 SBUS+数传连接示意图：

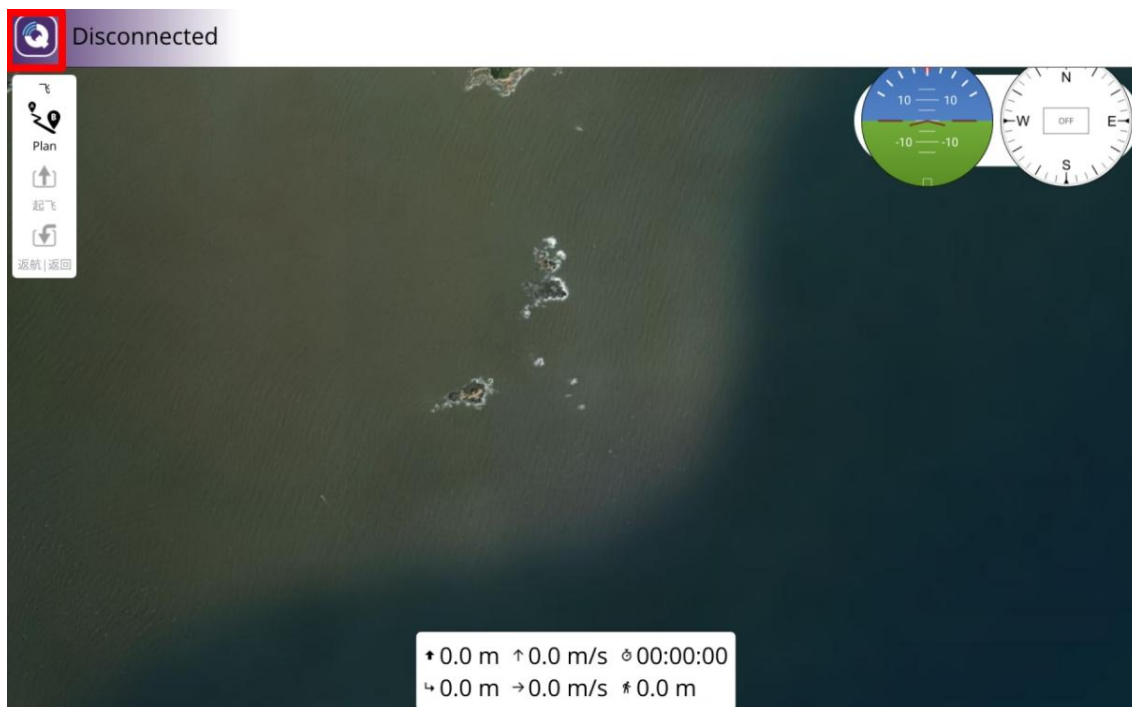


串口 1 接线图

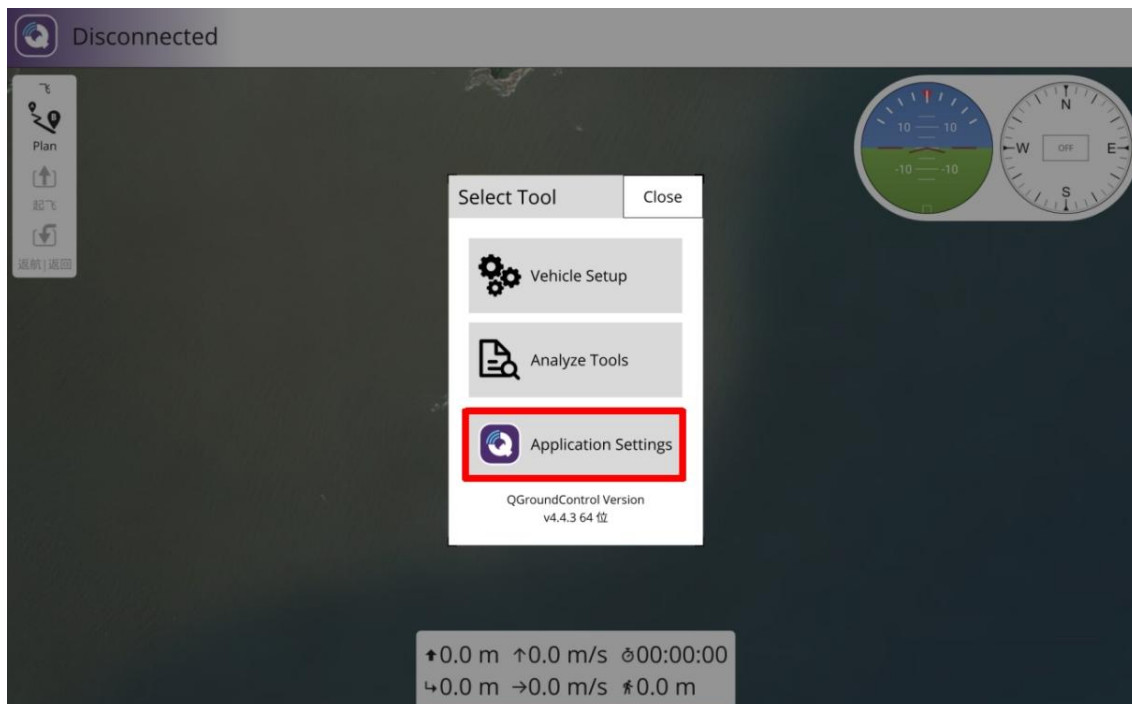


11.1 QGC 数传设置

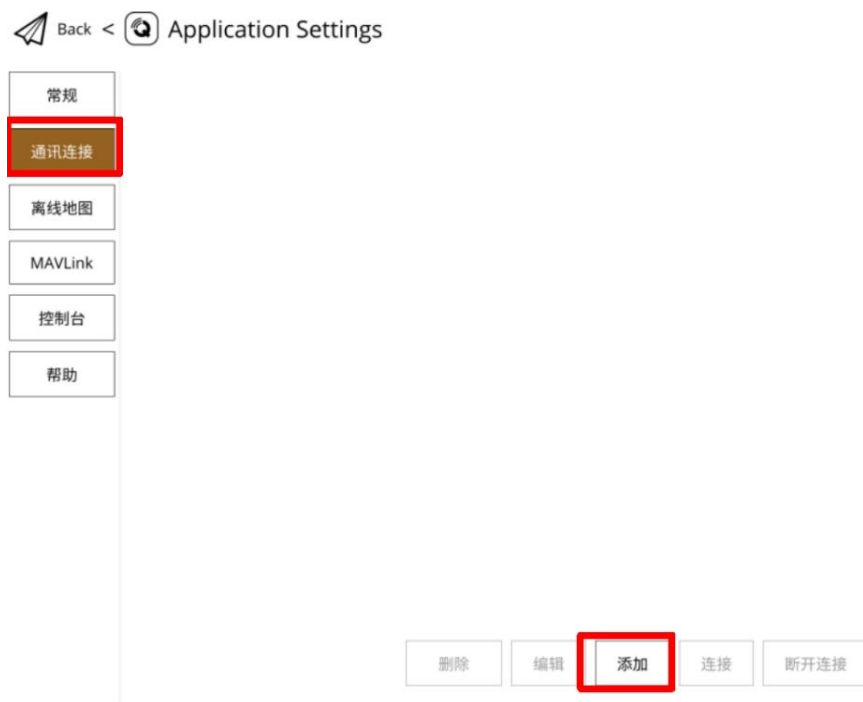
(1) 点击 QGC 左上角的 Q 图标。



(2) 在弹出的弹窗上，选择 Application Settings。



(3) 点击通讯连接，再点击添加。



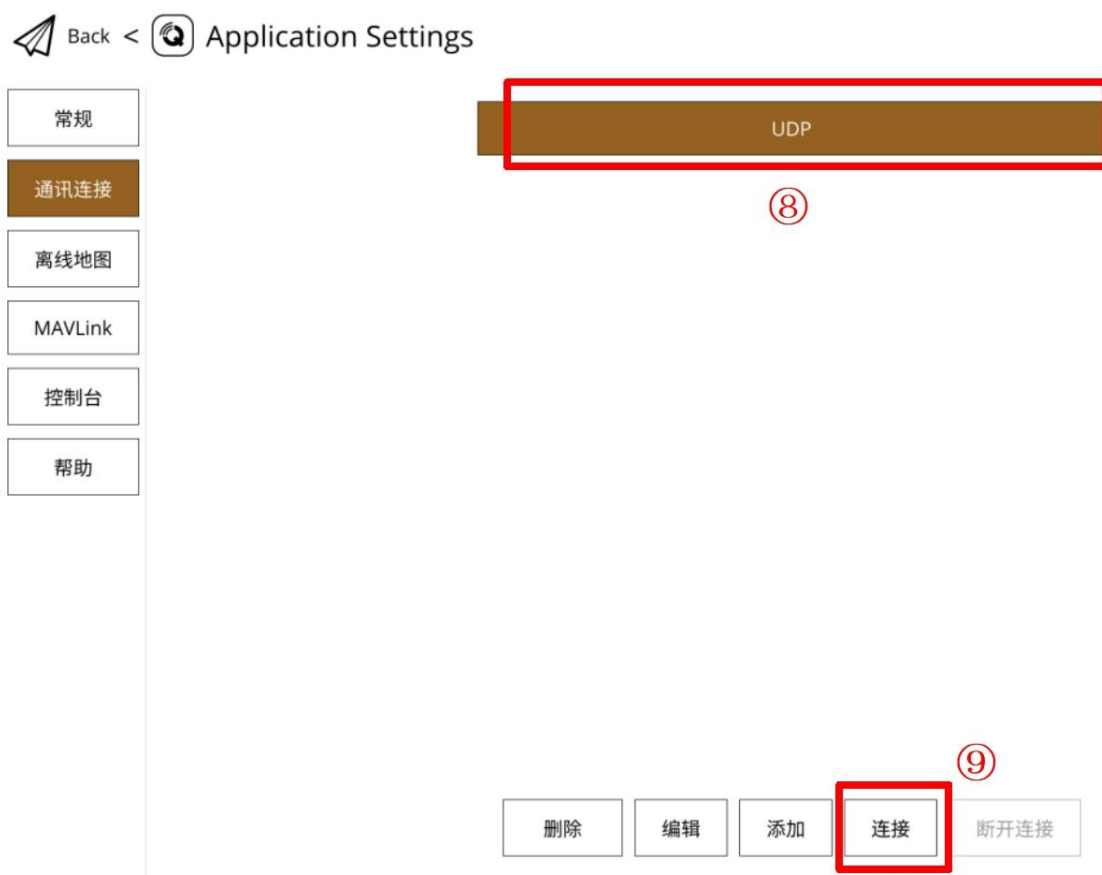
(4) 数传设置：

- ① NAME 添加名称；
- ② 勾选开始时自动连接；
- ③ Type（连接方式）点开选项设置为 UDP；
- ④ Port（端口）设置为 14551；
- ⑤ Server Addresses 下框内输入数传 IP 地址：127.0.0.1:14552；
- ⑥ 点击 Add Server（添加）；
- ⑦ 点击确认。

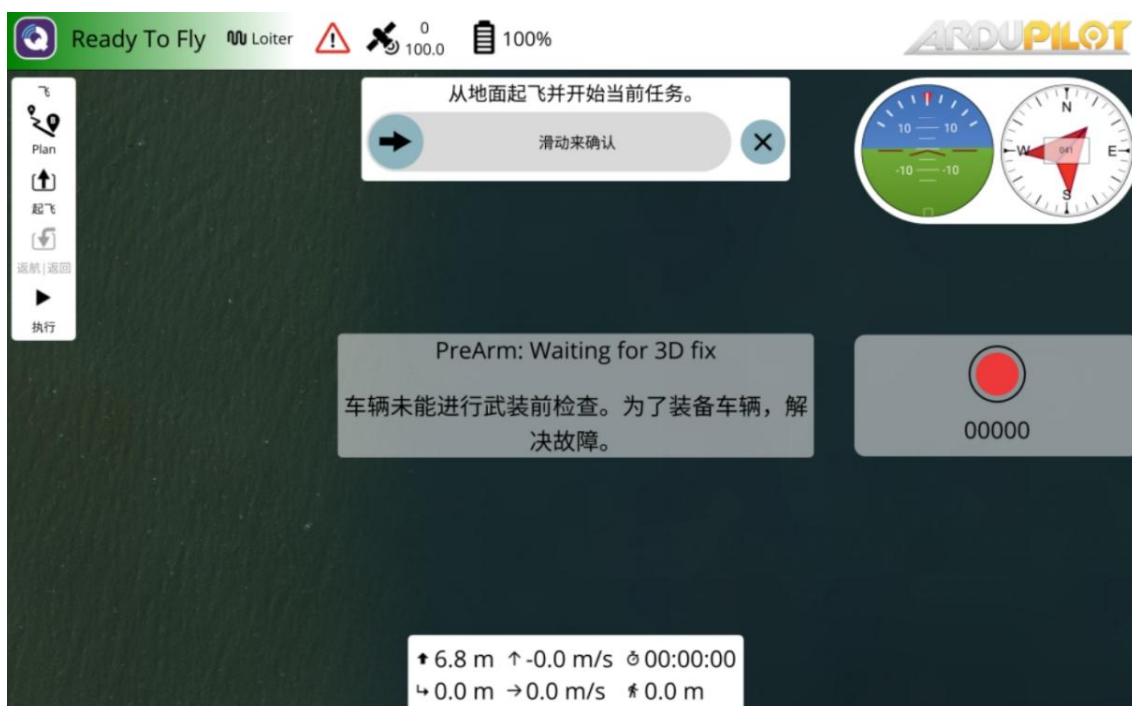


⑧ 点击选择刚才命名的 UDP；

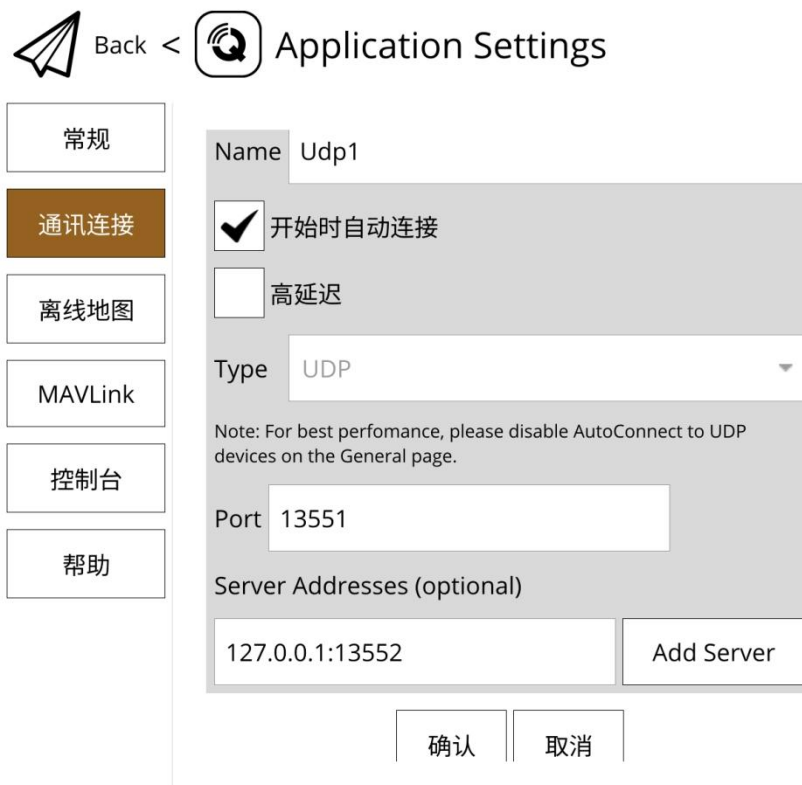
⑨ 再点击连接。



(5) 正常连接上航电系统数传。

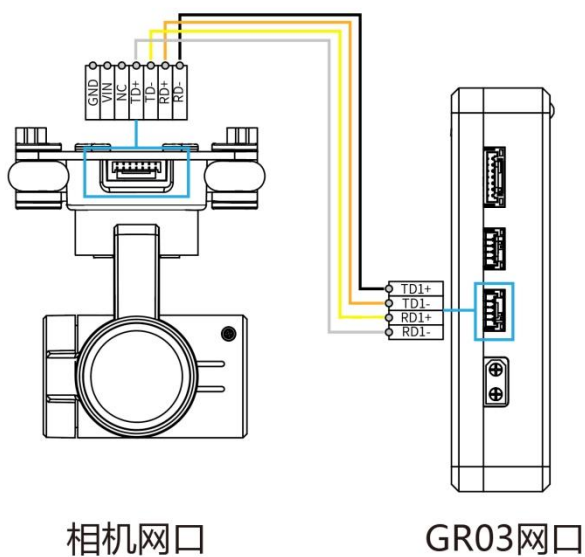


如接收机使用串口 1，则需要更改为下图连接方式

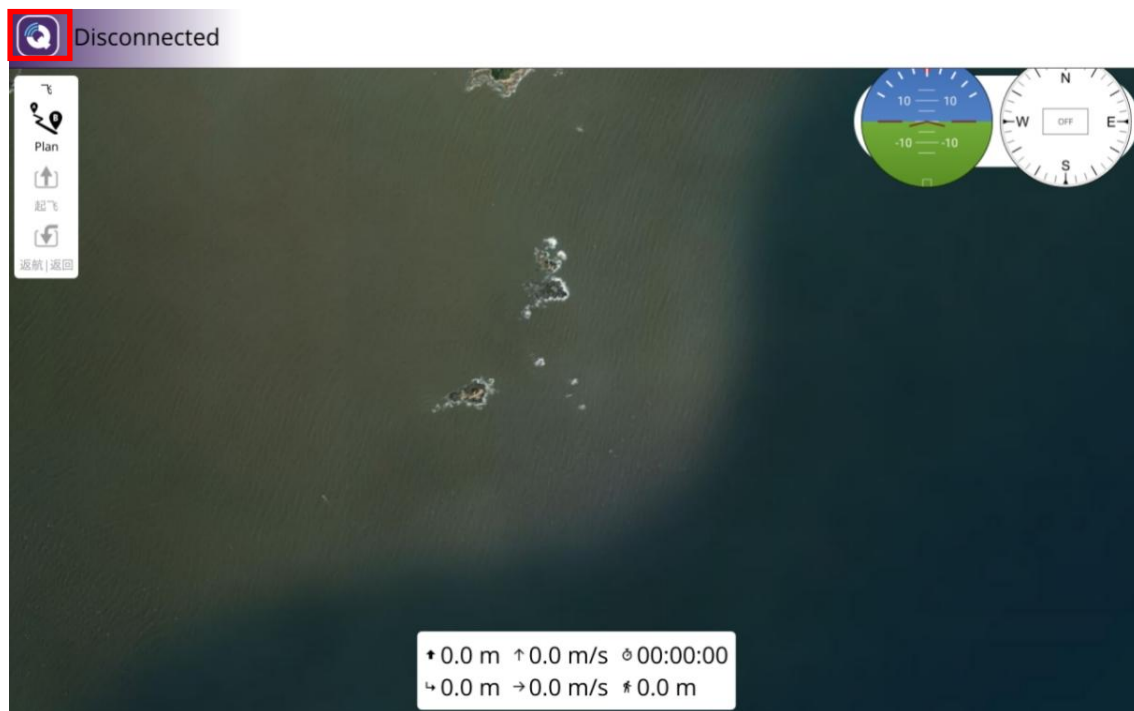


11.2 QGC 图传设置

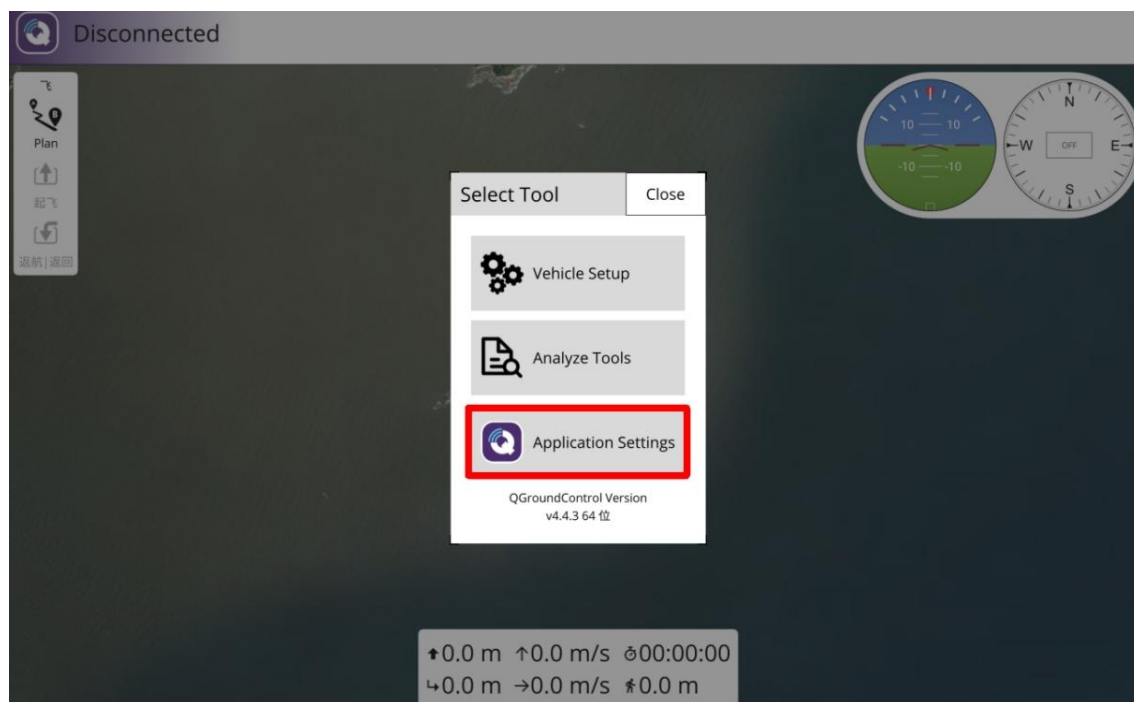
以 G30 遥控器 QGC 地面站为例做参考连接 C10PRO 摄像头图传（G30 助手后台需要关闭），网口线需要双绞。



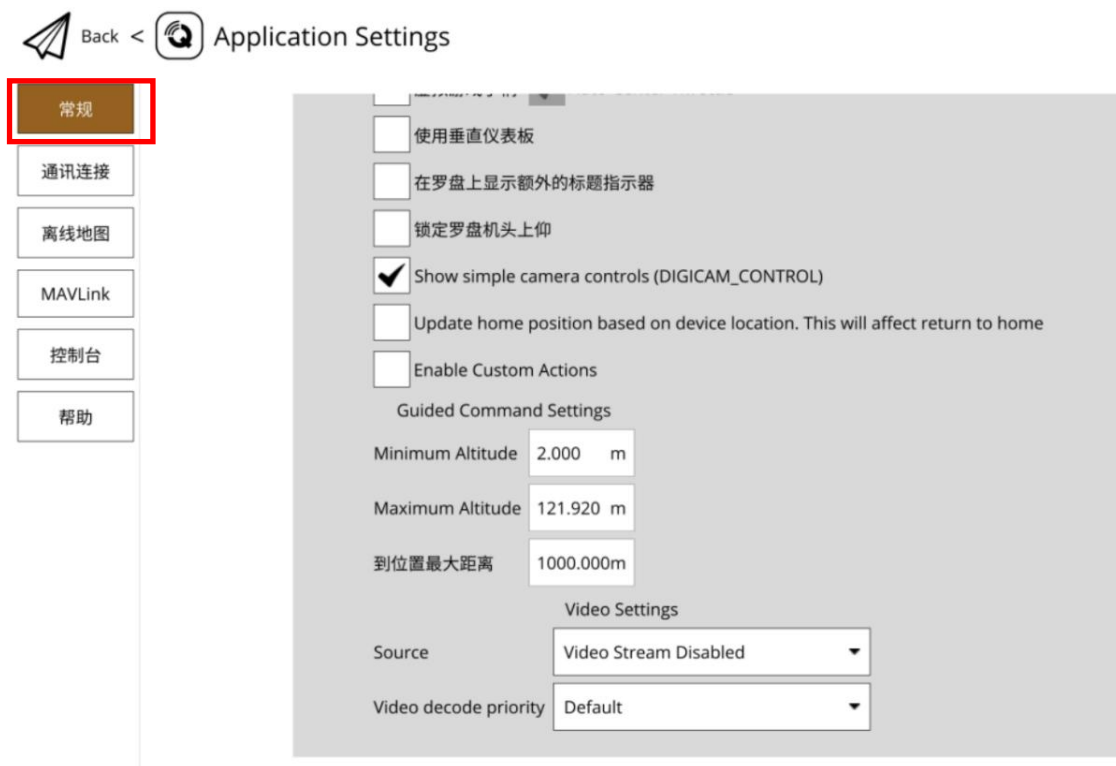
(1) 打开 QGC，点击 QGC 左上角的 Q 图标。



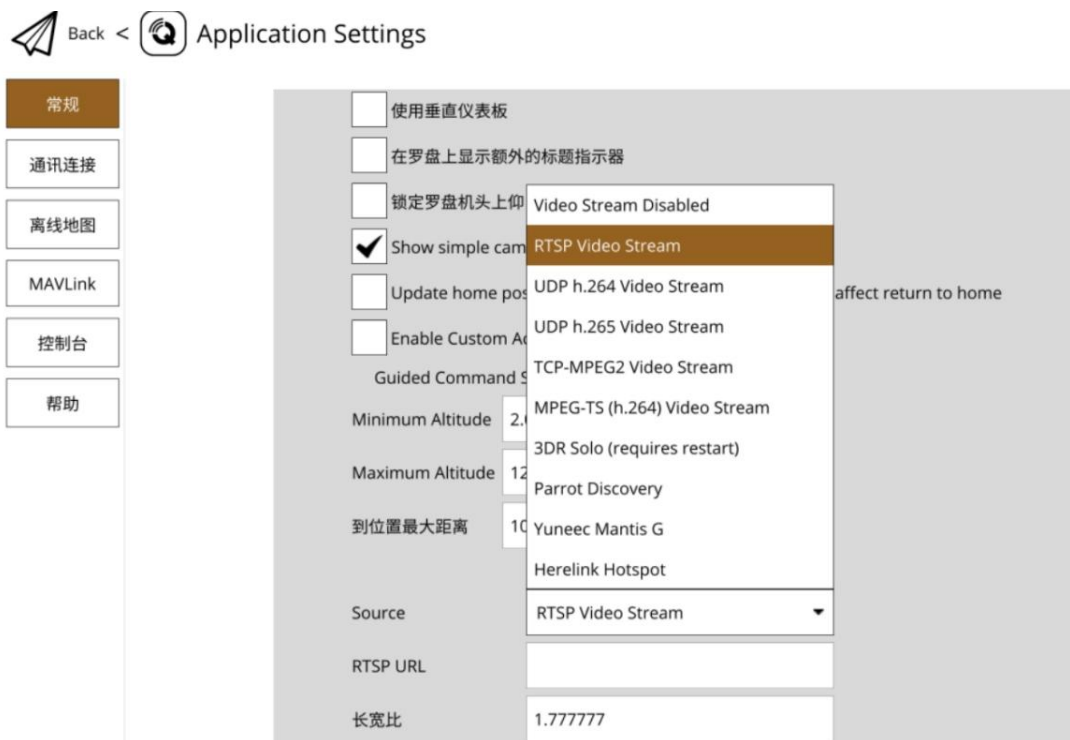
(2) 在弹出的弹窗上，选择 Application Settings。



(3) 点击 General （常规）。



(4) 将 Source（视频来源）更改为 RTSP Video Stream。



(5) 在 RTSP URL 填入网口相机的 RTSP 地址。

C10PRO/网口三体的图像（需要接 C10PRO）RTSP 地址：

rtsp://192.168.144.108:554/stream=0。

C12 双光分别是

rtsp://192.168.144.108:554/stream=1

rtsp://192.168.144.108:555/stream=2

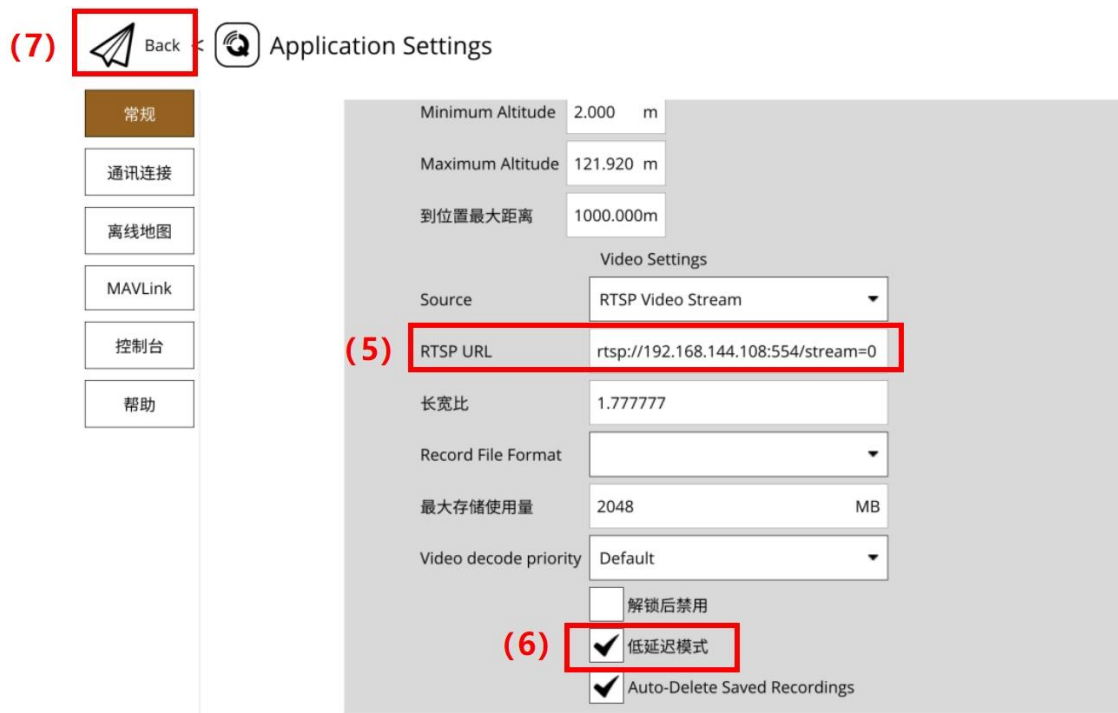
C20 是 rtsp://192.168.144.108:554/main

第三方摄像头仅支持拉流显示可设置自定义后，在下列输入摄像头对应的 RTSP 拉流地址。

注意：摄像头网段需要设置为 144 网段。

(6) 勾选低延迟模式

(7) 点击左上角飞机图标 Back 返回飞行页面。



(8) 正常连接上图传。



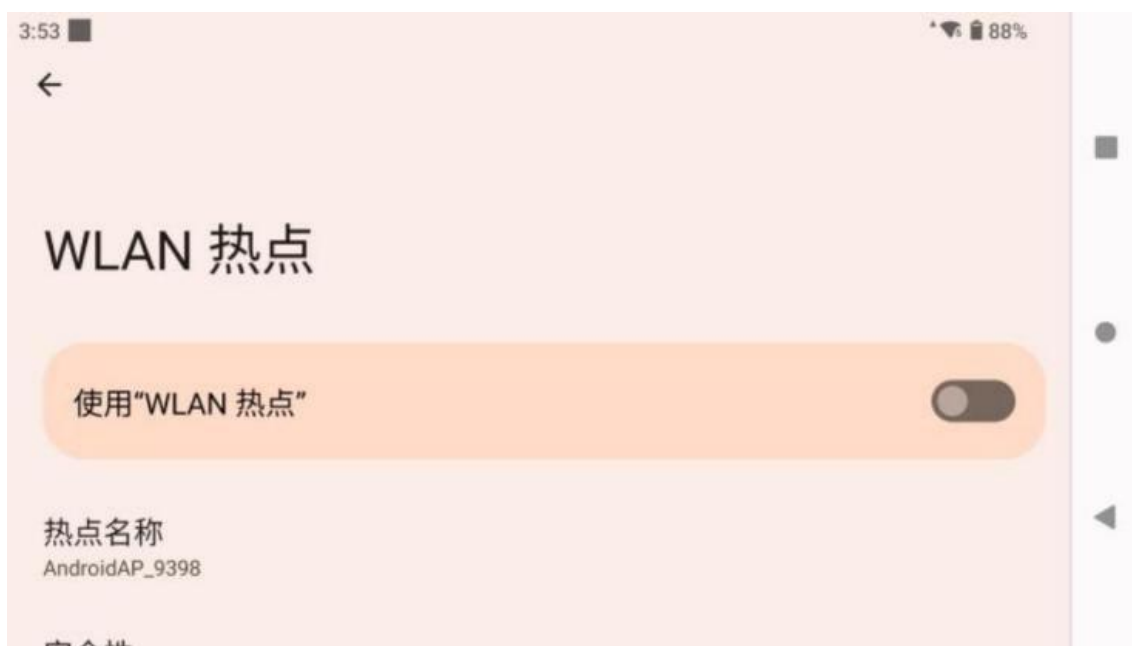
12. 使用热点共享数传图传

注意：此教程以使用开源航电系统为例，如使用第三方航电系统详询航电系统技术是否支持此连接。

遥控器开启热点步骤如下：

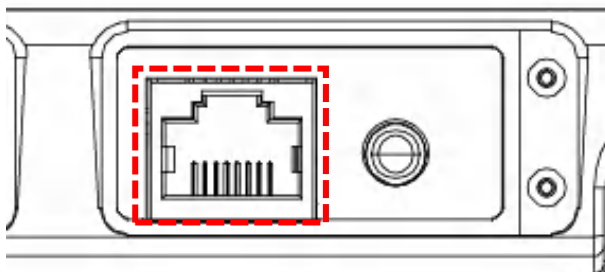
(1) 方式一：

打开设置->网络和互联网->热点和网络共享->WLAN 热点->打开“使用 WLAN 热点”，将电脑连接到遥控器的热点。



(2) 方式二：

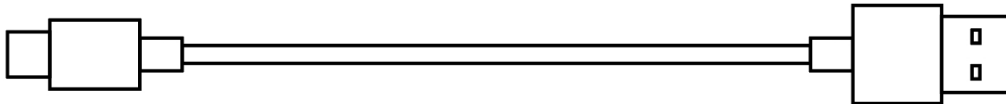
通过网线将电脑网口与遥控器的 RJ45 网口端口连接起来，打开设置->网络和互联网->热点和网络共享->打开“以太网网络共享”





(3) 方式三：

通过 A to C 数据线将电脑 TYPE-A 与遥控器的 TYPE-C 端口连接起来，打开设置->网络和互联网->热点和网络共享->打开“USB 网络共享”。

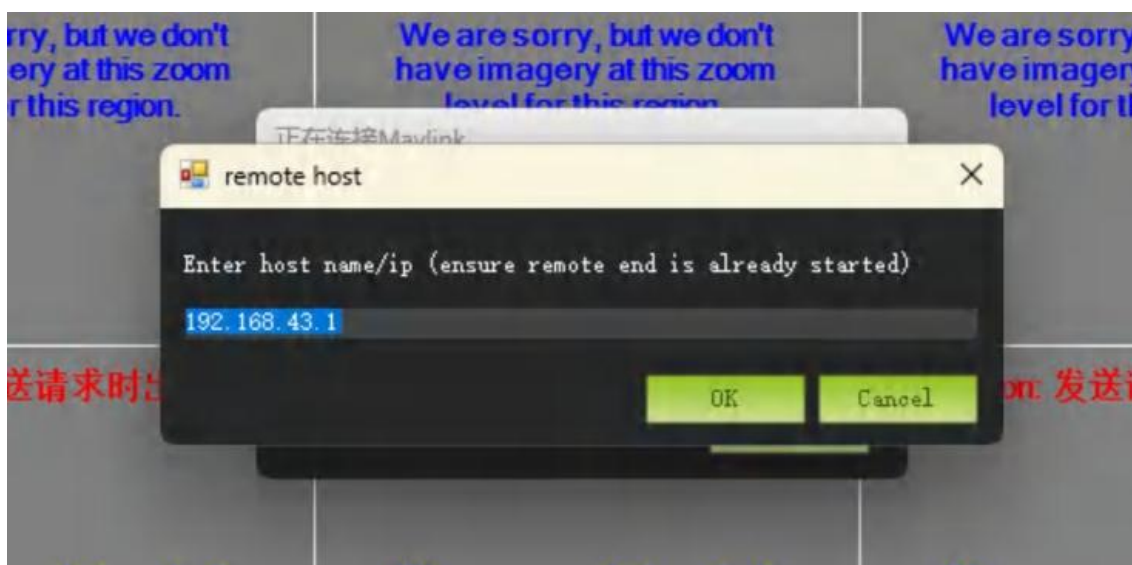


13.1 共享数传

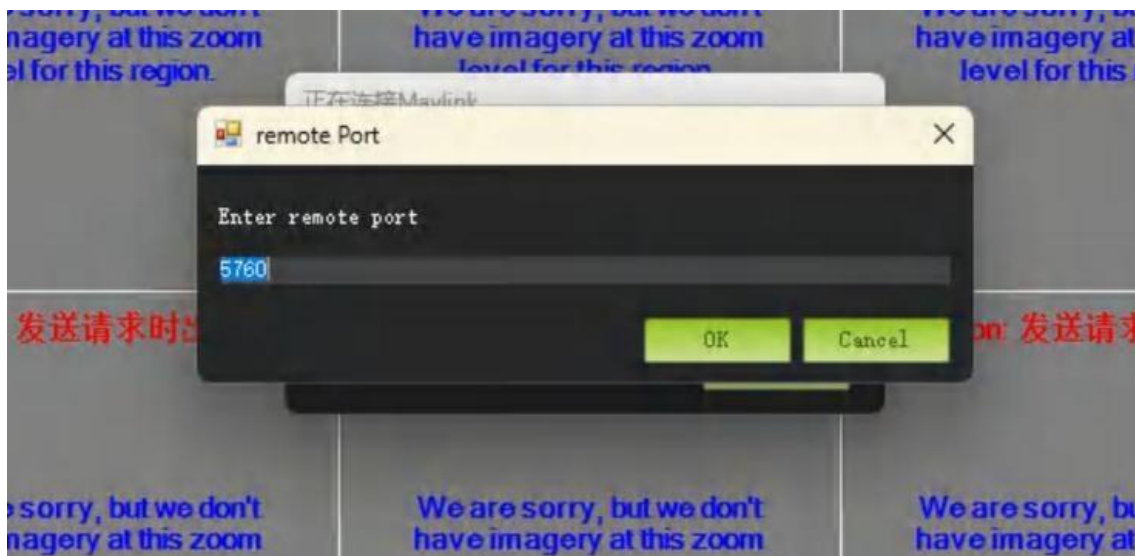
上述三种方式三选一连接成功后，打开 Mission Planner，连接方式选择 TCP。



点击连接后，IP 输入 192.168.43.1 输入完成后点击 OK。



端口号输入 5760 点击 ok，即可连上数传。



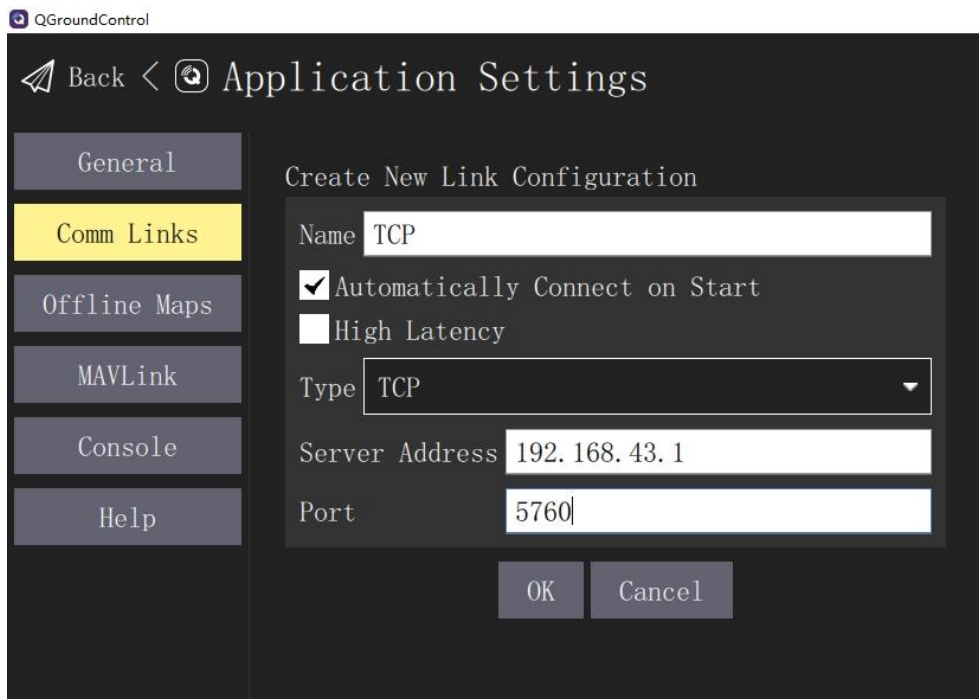
共享数传使用 QGC 连接数传

打开 QGC 软件 1.选择点击左上角的 Q。2.在弹窗的对话框,选择 Application Settings。

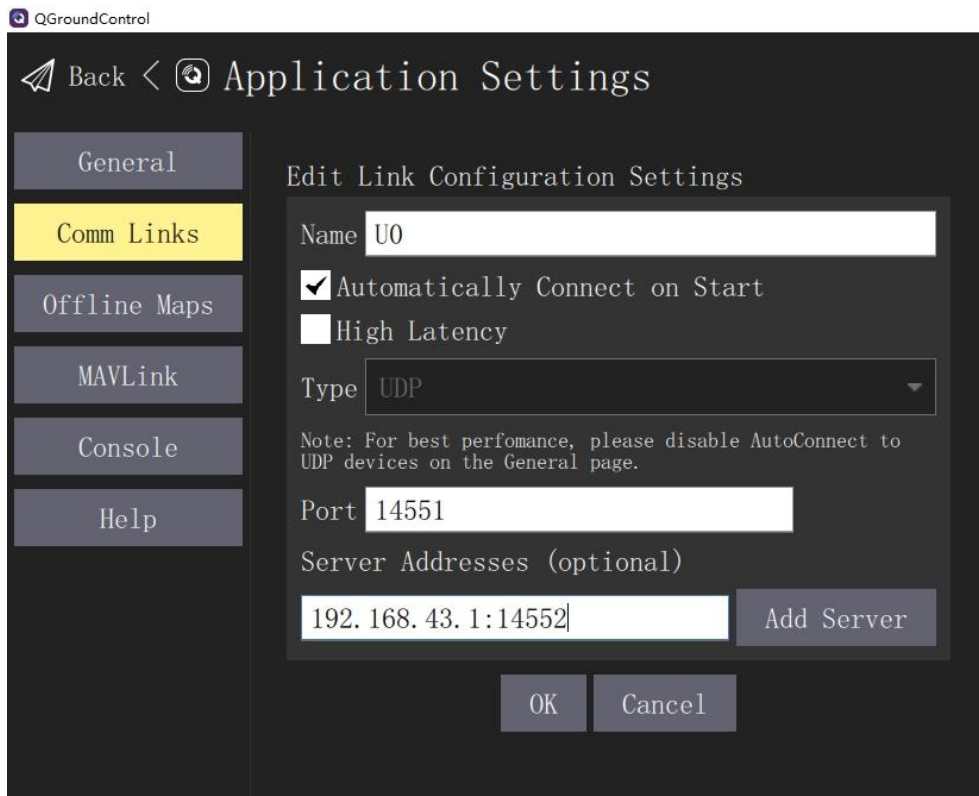


4.选择 Comm Links, 5.点击 Add

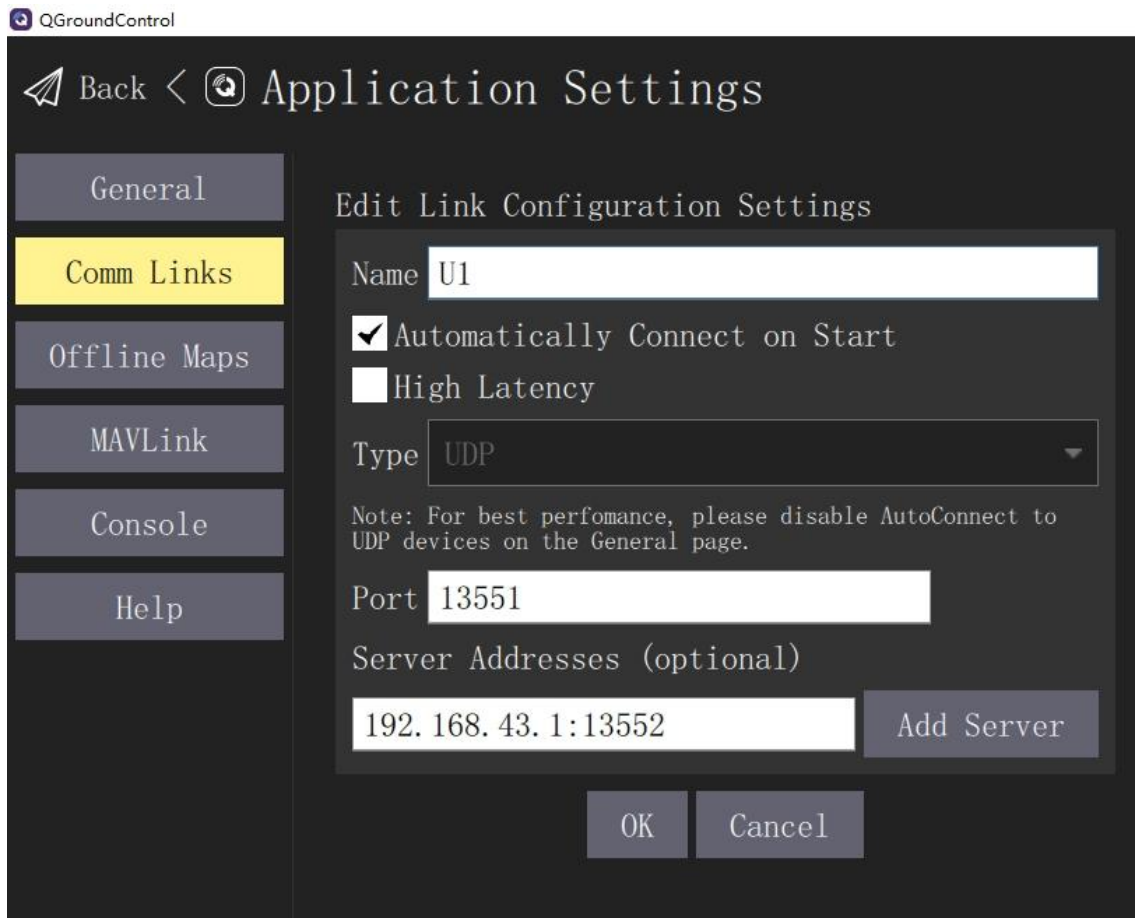
(1) 串口 0 TCP 连接方式：TCP 192.168.43.1 5760



(2) 串口 0 UDP 连接方式：UDP 14551 192.168.43.1:14552



(3) 串口 1 UDP 连接方式：UDP 13551 192.168.43.1:13552



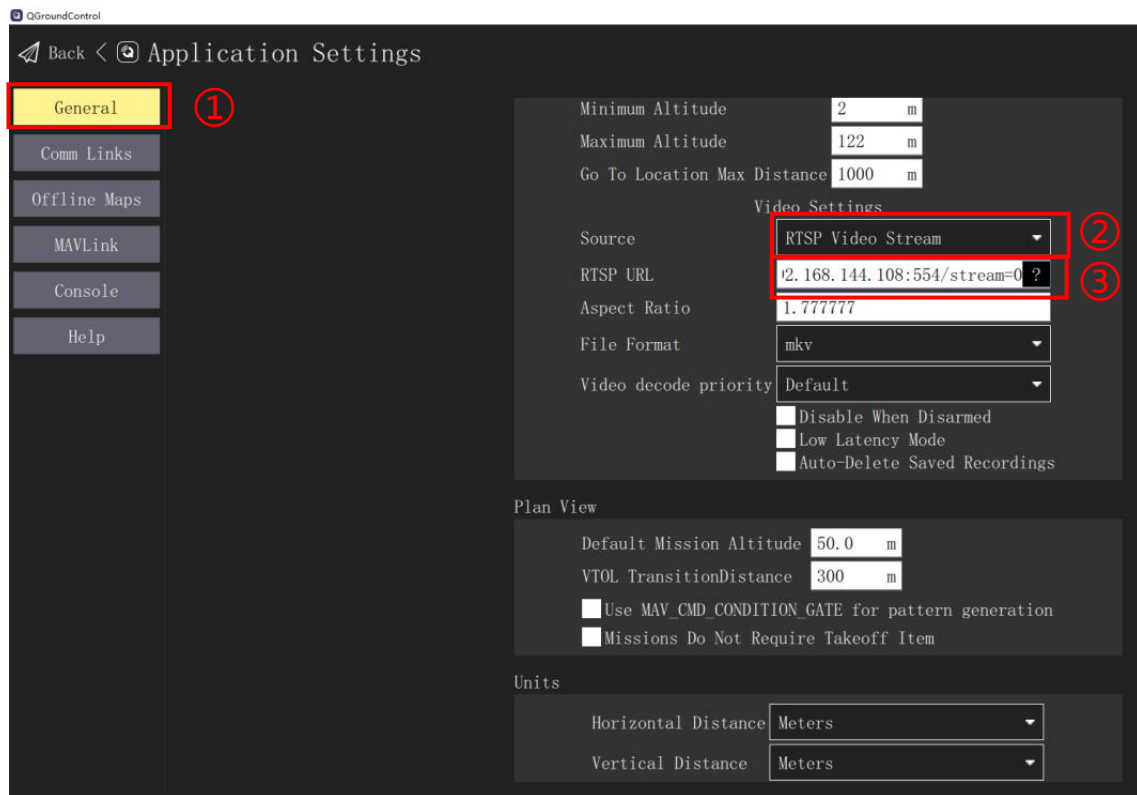
13.2 共享图传

上述三种方式三选一连接成功后，启动电脑上的 VLC 播放器。在媒体菜单中选择“打开网络串流”，然后 输入相机的码流地址，如下图所示，即可实现图传共享。



使用 QGC 显示共享图传

如下设置输入摄像头 RTSP 拉流地址即可。



注意：如果使用第三方摄像头时，需要设置摄像头的网关为 192.168.144.11 才能共享图传。遥控器和电脑端只用一方去拉流，同时拉流会导致带宽占用导致图传卡顿。

13. 参数

G30 遥控器参数			
显示屏	10.1 英寸高亮屏	分辨率	1920*1200
处理器	高通 6nm 处理器	系统	Android 14
尺寸	346×196.5×89.4mm	重量	1.5kg
电池	20000mAh	续航时间	6~8 小时
运行内存	8G	系统存储内存	128G
工作频段	2.4G/5.8G	通道数	16
动态调频	自动跳频	射频功率	23dBm@CE/FCC
遥控距离	9KM	工作温度	-10℃~55℃
充电接口	TYPE-C	外部接口	USB-A、SIM 卡槽、 TYPE-C、RJ45

GR03 接收机参数			
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	12V/500mA
数传口	2 路	空口速率	出厂默认上行 200kbps (上传模式：≤17.7Mbps) 下行 15Mbps (下载模式：≤30Mbps) (注意：打开助手的上传/下载模式后会影响通讯距离，建议近距离使用。)
网口	2 路	尺寸	82×58.7×20mm
SBUS 输出	1 路	重量	120g
PWM 接口	3 路	工作温度	-10℃~60℃
音频输出	1 个		
射频功率	23dBm@CE/FCC	信道带宽	1.25MHz/2.5MHz/5MHz/ 10MHz/20MHz/40MHz

14. 相关软件下载

云卓 Skydroid FLY 下载：

<http://file.skydroid.xin/SkydroidFly.apk>

云台 FPV app 下载地址：

<http://file.skydroid.xin/SkydroidCameraFPV.apk>

RCSDK（数传通讯，遥控器、云台、相机相关接口）：

适用于 H12、H12Pro、H16、H16Pro、H20、H30、G30、G20、三体相机（串口版）、
三体相机（网口版）、串口双轴云台、C10、C20、C10Pro、C12、电子云台 C01。

<https://gitee.com/skydroid/rcsdk-demo>

图传播放器（适用网口图传/串口图传）：

<https://gitee.com/skydroid/fpv-player-demo>

DEMO <https://gitee.com/skydroid/SkydroidDemo>

五、保养保修

长期停放时的维护、保养：

将遥控器存放于干燥通风处，减少阳光直射以防止电池过热。若需存放超过三个月，
则推荐的存放温度区间为 22 摄氏度至 28 摄氏度。切勿将电池存在于低于零下 20 摄氏度或高于 45 摄氏度的场所。

六、运输储存

警告

为避免可能的伤害和损失，务必遵守以下各项：

由于线材和小零件可能对儿童造成危险，所以务必让儿童远离遥控器的部件。

注意

- 1) 切勿让遥控器浸入水中，若入水，请及时用柔软干布擦拭，并立即关闭电源。
- 2) 禁止机械撞击、碾压、刺穿电池，禁止将电池跌落。

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

附页一

针对于无人车，船，大载重等设备运行时导致图传卡死问题解决方案：

图传设备在大型车，船上面使用时，偶发出现机器不启动时，图像运行正常。机器电机一启动（驱动），图传瞬间卡死的情况，需要对图传摄像头、接收机和设备进行隔离。

- 1.接收机馈线金属部位与设备金属外壳隔开。接收机的馈线，摄像头图传线都要避开电源线。
- 2.接收机供电线、摄像头供电线加绕磁环，磁环要多绕几圈才会有效果，要绕满，能绕多少圈就多绕。只绕一圈或者没绕没效果（磁环绕线原理的核心在于通过绕线匝数调节磁环的阻抗特性，利用电磁感应实现对高频噪声的抑制）。



- 3.接收机更换安装位置避开干扰。
- 4.接收机单独供电。

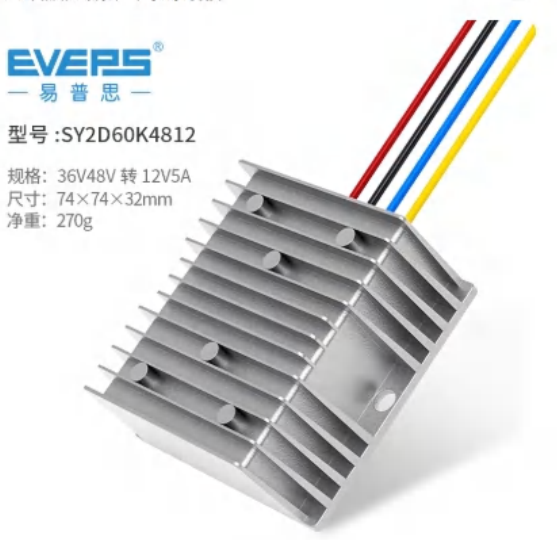
如上述方式无效时：

5.接收机和摄像头供电单独加隔离电源 注意隔离电源不能共地，共地就没有隔离效果。
隔离电源的好处就是隔离这种电机产生的那个地线上的扰动。

链接：

<https://e.tb.cn/h.SvaqBlbBZMad0Ez?tk=W4PnflVti99> CZ007 「EVEPS 隔离电源
24v36v48v80v100v 转 12v 直流升压稳压转换器降压模块」

电压选择载具电源电压符合的选项，（如 48V 电源可以选择 48 即可）一般电流选择
5A 就可以。



EVEPS®
一易普思一

型号:SY2D60K4812

规格: 36V48V 转 12V5A
尺寸: 74×74×32mm
净重: 270g

图集 参数

文详情 本店推荐 看了又看

12V5A隔离大铝Y2

12V8A隔离大铝Y2

EVEPS隔离电源24v36v48v80v100v转12v直流升压稳压转换器降压模块

可开发票

券后¥110.64 优惠券¥118 已售1000+

¥5 店铺新客礼金限享一次 即时可用 店铺新客立减5元 淘金币可抵1.00元起

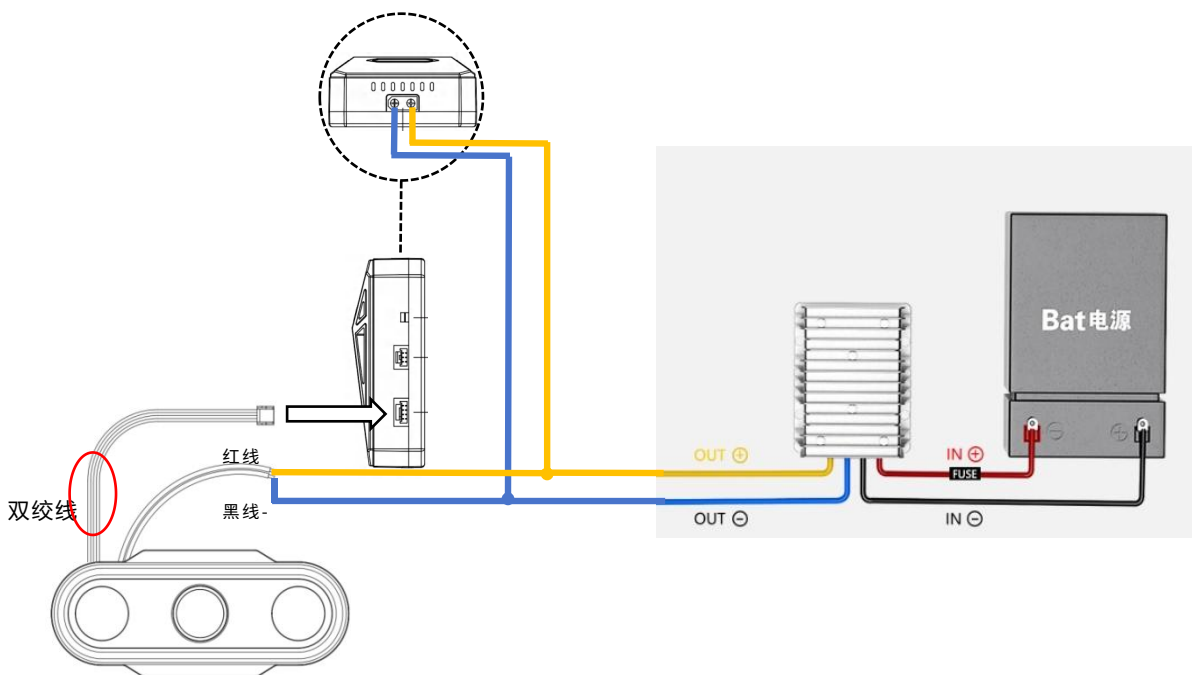
预计4小时内发货 | 承诺48小时内发货 | 快递: 免运费 | 广东东莞 至 泉州市 丰泽区

退货宝 | 假一赔四 | 极速退款 | 7天无理由退换

信用卡支付

颜色分类

9-36V转12V1A隔离大铝J3	9-36V转12V2A隔离大铝J3
9-36V转12V3A隔离大铝J3	9-36V转12V5A隔离大铝Y2
9-36V转12V8A隔离大铝Y2	9-36V转12V10A隔离大铝Y2
48V(30-60V)转12V5A隔离大铝Y2	48V(30-60V)转12V8A隔离大铝Y2
48V(30-60V)转12V10A隔离大铝Y2	80V (50-100V)转12V5A隔离大铝Y2
80V (50-100V)转12V8A隔离大铝Y2	80V (50-100V)转12V10A隔离大铝Y2
100V (75-150V)转12V5A隔离大铝Y2	100V (75-150V)转12V8A隔离大铝Y2
100V (75-150V)转12V10A隔离大铝Y2	9-36V转12V15A隔离大铝Y3
48V (30-60V)转12V15A隔离大铝Y3	80V (50-100V)转12V15A隔离大铝Y3
100V(75-150V)转12V15A隔离大铝Y3	48V(30-60V)转12V20A隔离大铝Y4
48V(30-60V)转12V30A隔离大铝Y4	80V(50-100V)转12V20A隔离大铝Y4
80V(50-100V)转12V30A隔离大铝Y4	100V(75-150V)转12V20A隔离大铝Y4
100V(75-150V)转12V30A隔离大铝Y4	



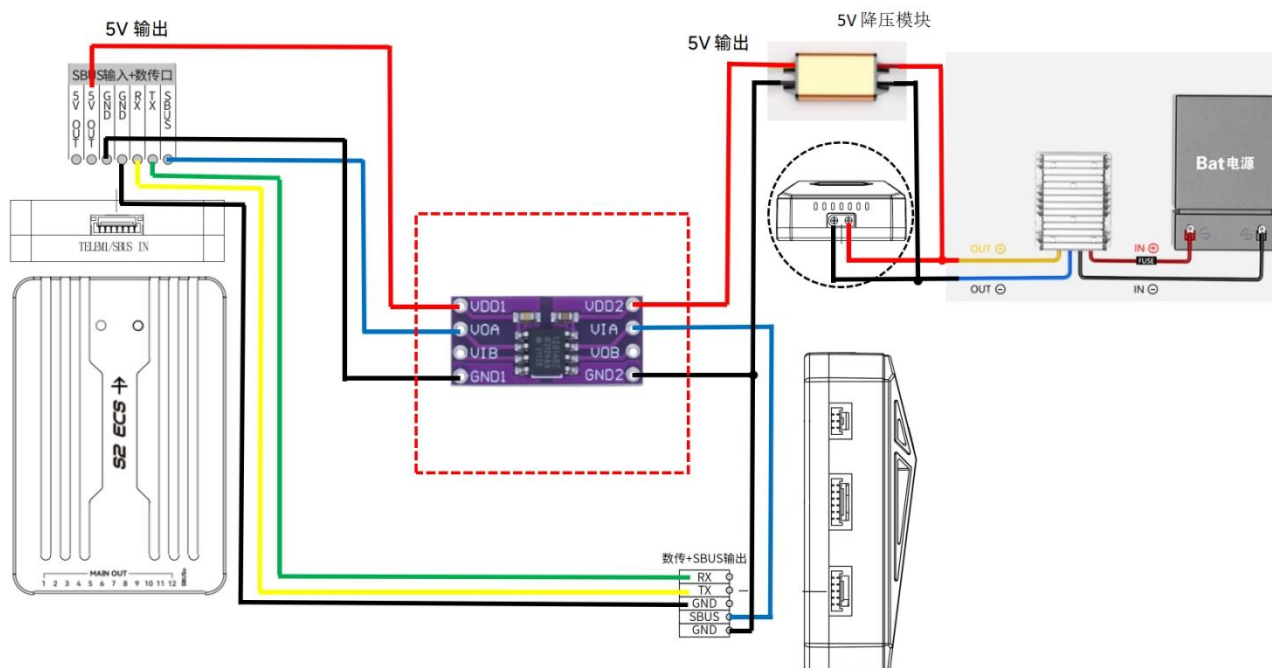
电源加隔离器 接线图如上

6.SBUS 隔离

sbus 可以用这个模块做一下隔离，接收机和摄像头单独用小电池供电（注意，VDD1 和 VDD2 需要同时供电，需要再单独购买降压模块，输出电压 3.3-5V。隔离模块推荐两边供电使用 3.3V）

链接 <https://e.tb.cn/h.SF7iEbc40yA5M3v?tk=5DDPfl4M22x HU287> [ADUM1201 两款串口数字隔离器模块磁隔离/SPI/CAN 总线收发器信号。





接收机，摄像头单独小电池供电加电源隔离器，接收机和航电系统（控制器）sbus 传输线串联这个隔离器。

注意：文档中的链接均为客户有购买使用过的链接，仅供参考。

SKYDROID 云卓

SKYDROID TECHNOLOGY (FUJIAN) CO., LTD



SKYDROID G30 GR03

Use manual

V1.2

This manual may not be the latest version. For the latest version, please go to the Official Website's Resource Download Center - Resource Documents to download it:

<https://skydroidglobal.com/>

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 Skydroid Technology (FUJIAN) Co., Ltd., and also to products sold by authorized Skydroid distributors.
2. For products with non-human-caused quality issues verified by our company within one week from the date of purchase, Skydroid shall bear the round-trip courier fees for the returned products. For products with quality issues verified by our company more than one week but within one year from the date of purchase, the user and Skydroid shall each bear the courier fee for sending the product back for repair.
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 non-human-caused quality issues under normal use within seven days from the date of purchase, with no appearance damage, the user may negotiate with the distributor for a free replacement of the same-model product by presenting the warranty card and purchase certificate. Distributors are requested to notify Skydroid immediately for record-filing when receiving the product to be replaced.
5. Skydroid Technology (FUJIAN) Co., Ltd. provides lifelong after-sales service for Skydroid products. For non-human-caused quality issues, free warranty service is offered within one year from the date of purchase. For products with human-caused damage, modification, disassembly, or those beyond the one-year free warranty period, the user shall bear the round-trip shipping fees and repair costs.
6. To protect your rights and ensure timely and effective service, please fill out the warranty card completely and request a purchase certificate when buying a Skydroid product. The user must provide the warranty card and purchase certificate to enjoy the after-sales service under these terms.
7. Repaired products will be sent back to the customer within 15 working days after Skydroid receives them, along with a repair report.
8. The above after-sales service terms apply only to Skydroid products sold in Mainland China.

For after-sales issues of 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.

Table of Contents

I . Overview	1
1. Product Features	1
2. Main Uses and Scope of Application	1
3. Operating Environment Conditions	2
4. Working Conditions	2
II . Component Names	3
1. Remote Controller	3
2. Receiver	5
III.Prepare remote controller	7
1. Remote Control Charging	7
2. Open the antenna	7
IV. Usage and Operation	8
1. Remote Control Power On and Off	8
2. System Desktop	8
3. Adjusting Brightness	10
4. Adjusting Volume	12
5. Language Settings	13
6. Transferring Files to/from a Computer	16
7. Introduction to Device Tool	18
8. Introduction to Device Tool - ⑤ Advanced Options (Password: 999)	20
9. Video and Data Transmission Connection	24
10. How to Display Data Transmission and Video Transmission on the G30	
Remote Controller' s QGroundControl Ground Station	29
11.1 QGC Data Transmission Settings	31
11.2 QGC Image Transmission Settings	35
11. Using Hotspot to Share Data Link and Image Transmission	39
12.1 Sharing Data Link	42
12.2 Sharing Image Transmission	45
12. Parameters	47
13. Related Software Downloads	49
V. Maintenance and Warranty	49
VI. Transportation and Storage	49

I . Overview

1. Product Features

(1) The G30 series adopts a Qualcomm 6nm processor and is equipped with an Android 14 (64-bit) embedded system, ensuring smooth operation and an open ecosystem that supports the installation of most apps available on the market. It uses an all-new high-power, high-bandwidth 2.4/5.8G dual-band wireless module, supporting automatic frequency hopping and MCS autonomous dynamic adjustment, with an image & data transmission range of up to 9km.

(2) The G30 is equipped with a rich set of interfaces, Type-C interface, SIM card slot, RJ45 Ethernet port, PPM interface, and USB-A (upgrade interface); the GR03 features dual serial port transparent transmission, dual Ethernet ports, SBUS, PWM interface, and audio output interface. It provides an SDK development kit, supports video floating windows. Made of meteorological silica gel, frosted rubber, stainless steel, and ABS, the product not only offers an excellent hand feel but also meets the harsh conditions of outdoor drone use. The G30 is equipped with dust-proof protection at the body, control switches, and all peripheral interfaces to ensure stable and smooth operation of the device in harsh environments.

(3) It features a 10.1-inch industrial touchscreen with a resolution of 1920*1200 and a sunlight-readable display. With an ultra-large screen-to-body ratio, real-time display information can still be clearly viewed even in direct sunlight.

(4) It uses a high-energy-density lithium-ion battery, which supports 6-8 hours of operation on a full charge. When using the standard charger and cable, it enables PD 33W fast charging. The consistent "wilderness survival" design philosophy ensures you have no worries about the device's reliability.

2. Main Uses and Scope of Application

The G30 is suitable for video image transmission (a camera is required as an optional accessory), data transmission, and control of unmanned devices such as vehicles and ships.

3. Operating Environment Conditions

Caution:

a) Ambient temperature: $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$.

b) Storage temperature: $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$.

c) Relative humidity: Not to exceed 85%.

d) Atmospheric pressure: $86\text{kPa} \sim 106\text{kPa}$.

e) The use location must be free of explosive media. The surrounding media shall not contain gases or conductive substances that corrode metals, damage insulation, or be filled with water vapor or severe mold.

f) The use location shall be equipped with facilities to protect against rain, snow, wind, sand, and dust.

Warning: Direct sunlight on the product is not allowed during use.

4. Working Conditions

Power Supply Method and Precautions:

The G30 series ground station is equipped with a built-in integrated rechargeable lithium-ion battery and is compatible with standard Type-C interfaces on the market. Please use the original charger for charging.

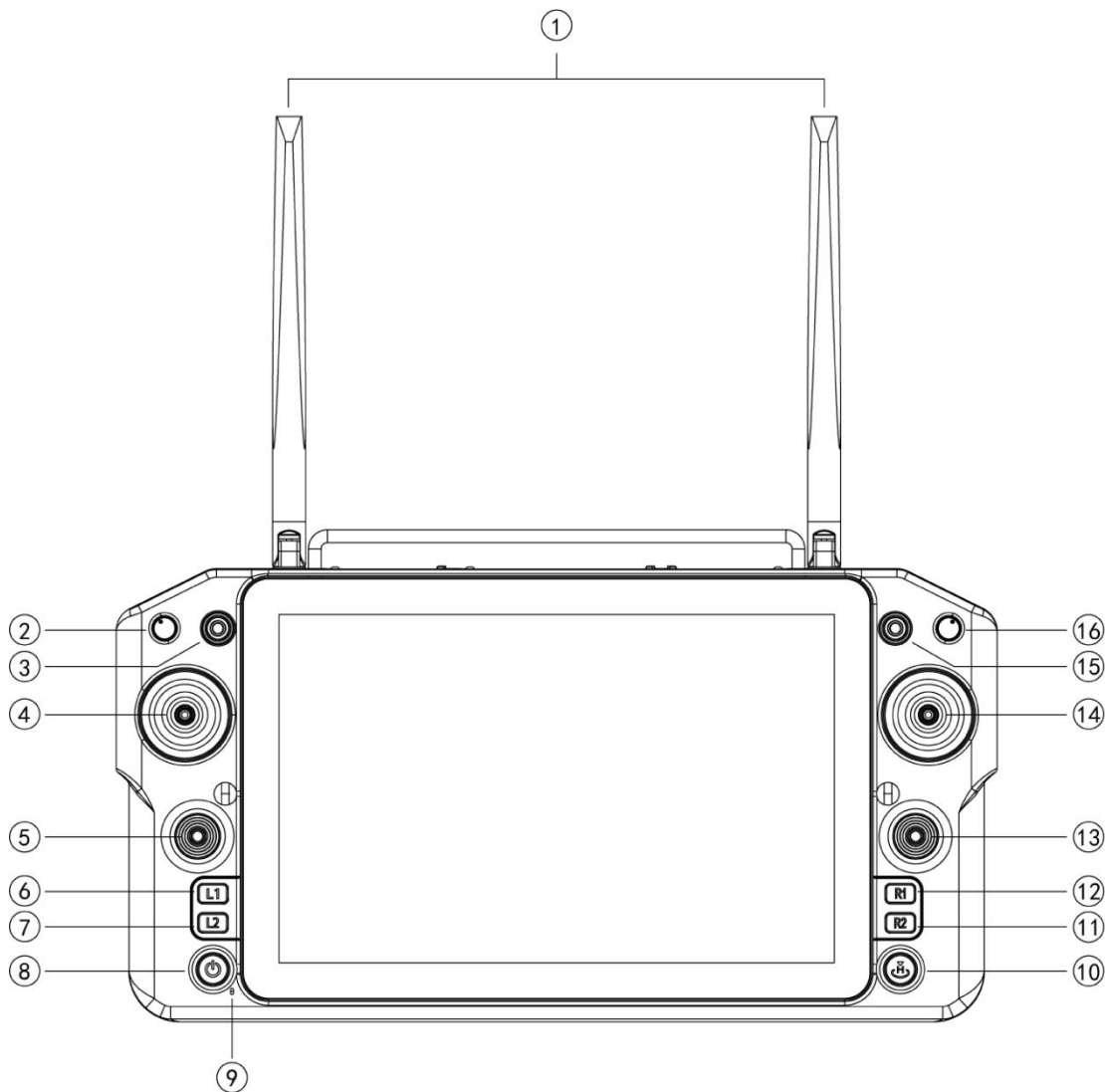
If smoke, unusual odor, or liquid leakage occurs while charging the ground station, do not continue charging the remote controller and please send it to our company for repair.

Do not charge this product in areas accessible to infants to avoid the risk of electric shock.

Do not charge this product in an environment where the temperature exceeds 60°C

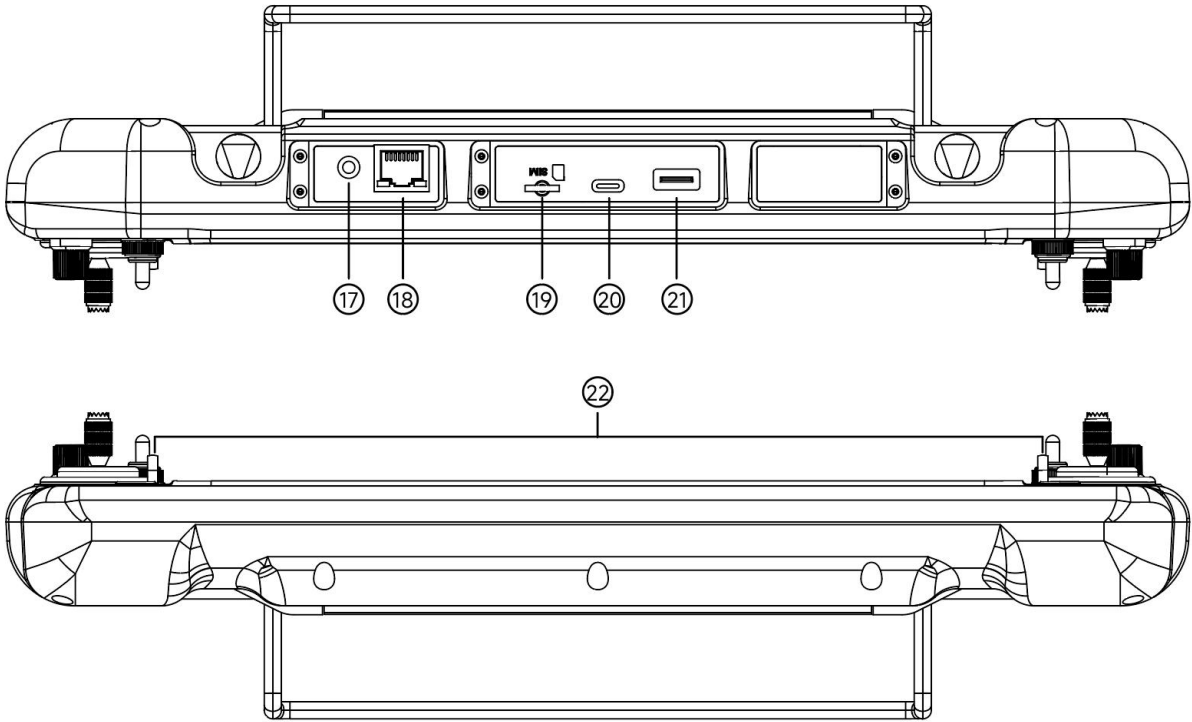
II . Component Names

1. Remote Controller



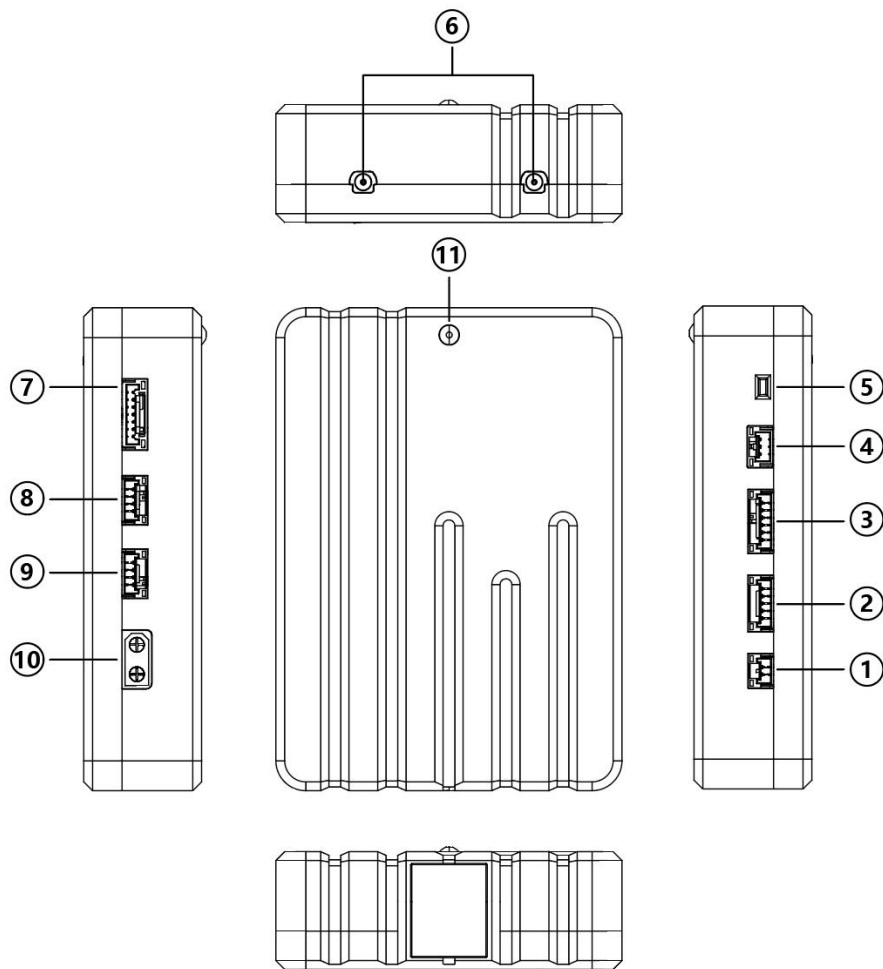
No.	Description	No.	Description
1	2.4G/5.8G 4dBm Antenna	9	Microphone
2	Knob Switch AUX1	10	Button H
3	Toggle 3-Position Switch SW1	11	Button R2
4	Left Joystick (X1, Y1)	12	Button R1

5	Left Mini Joystick (X3, Y3)	13	Right Mini Joystick (X4, Y4)
6	Button L1	14	Right Joystick (X2, Y2)
7	Button L2	15	Toggle 3-Position Switch SW2
8	Power Button	16	Knob Switch AUX2

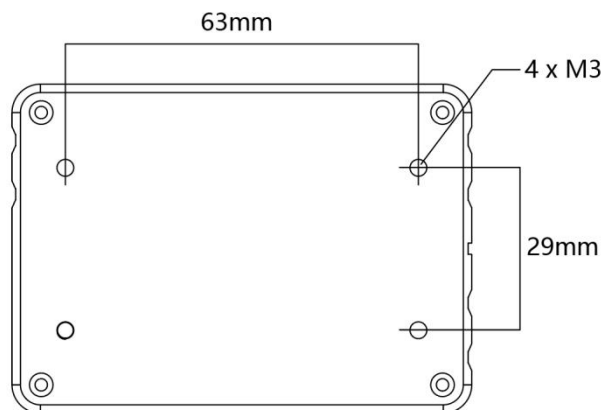


No.	Description	No.	Description
17	PPM Interface	21	USB-A Upgrade Interface
18	RJ45 Ethernet Port	22	Lanyard Interface
19	SIM Card Slot (4G)		
20	TYPE-C Interface		

2. Receiver



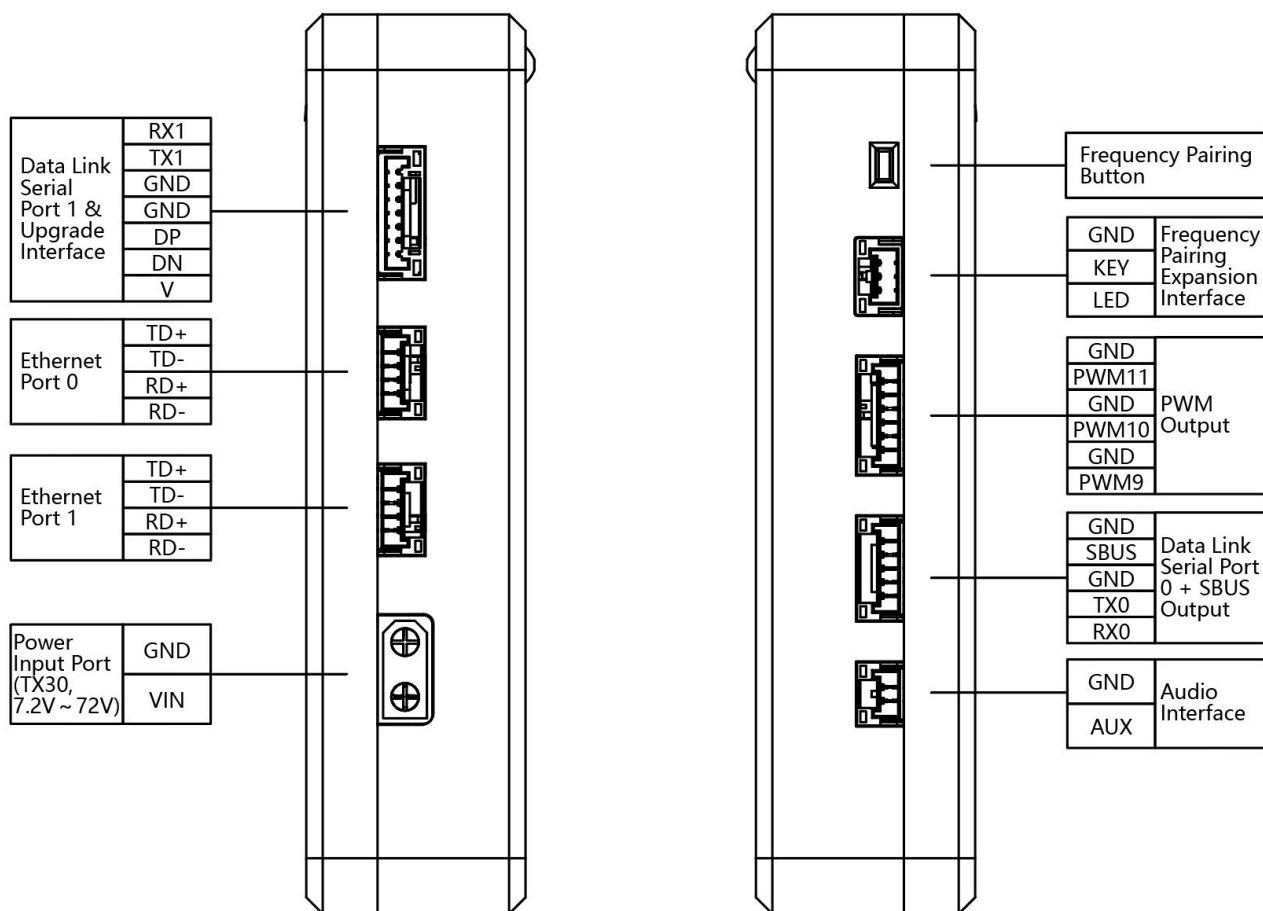
Mounting Hole Diagram:



We provide fixing holes with a depth of 3mm, which use national standard M3 screws.

No.	Description	No.	Description
1	Audio Interface	7	Data Link Serial Port 1 & Upgrade Interface
2	Data Link Serial Port 0 + SBUS Output	8	Ethernet Port 0
3	PWM Output	9	Ethernet Port 1
4	Frequency Pairing Expansion Interface	10	Power Input Port (TX30, 7.2V~72V)
5	Frequency Pairing Button	11	Frequency Pairing Connection Indicator Light
6	Antenna Interface (MMCX)		

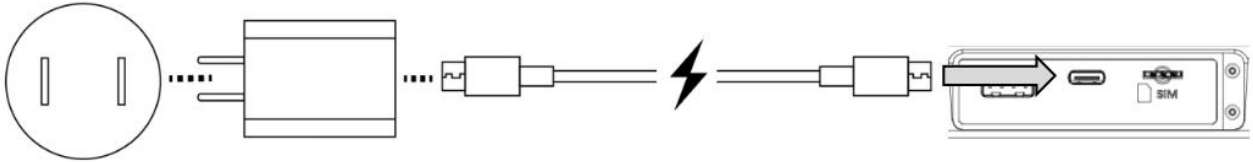
Definition of Receiver Interfaces:



III.Prepare remote controller

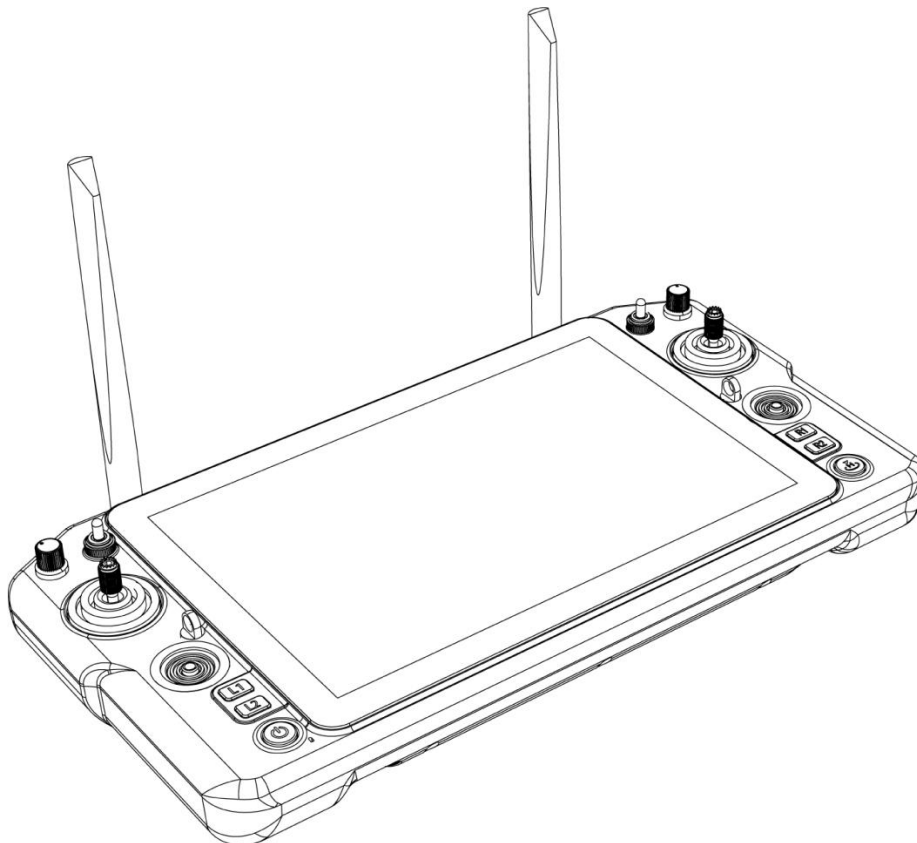
1. Remote Control Charging

It takes approximately 3 to 4 hours to fully charge using the original charger.



Please charge using the original charger. To maintain the remote control battery in optimal condition, ensure the battery is fully charged once a month.

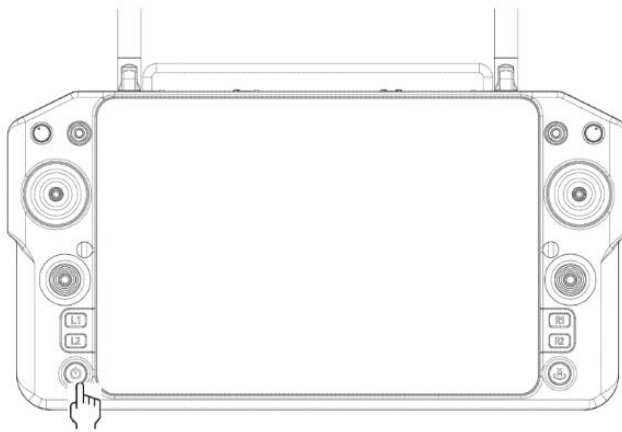
2. Open the antenna



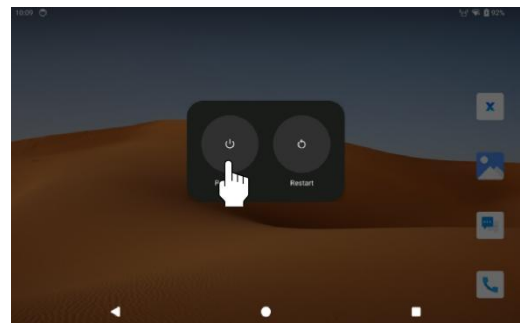
IV. Usage and Operation

1. Remote Control Power On and Off

Press and hold the power button for 2 seconds to turn on the remote control. To turn it off, press and hold the power button for 2 seconds, then tap the screen.

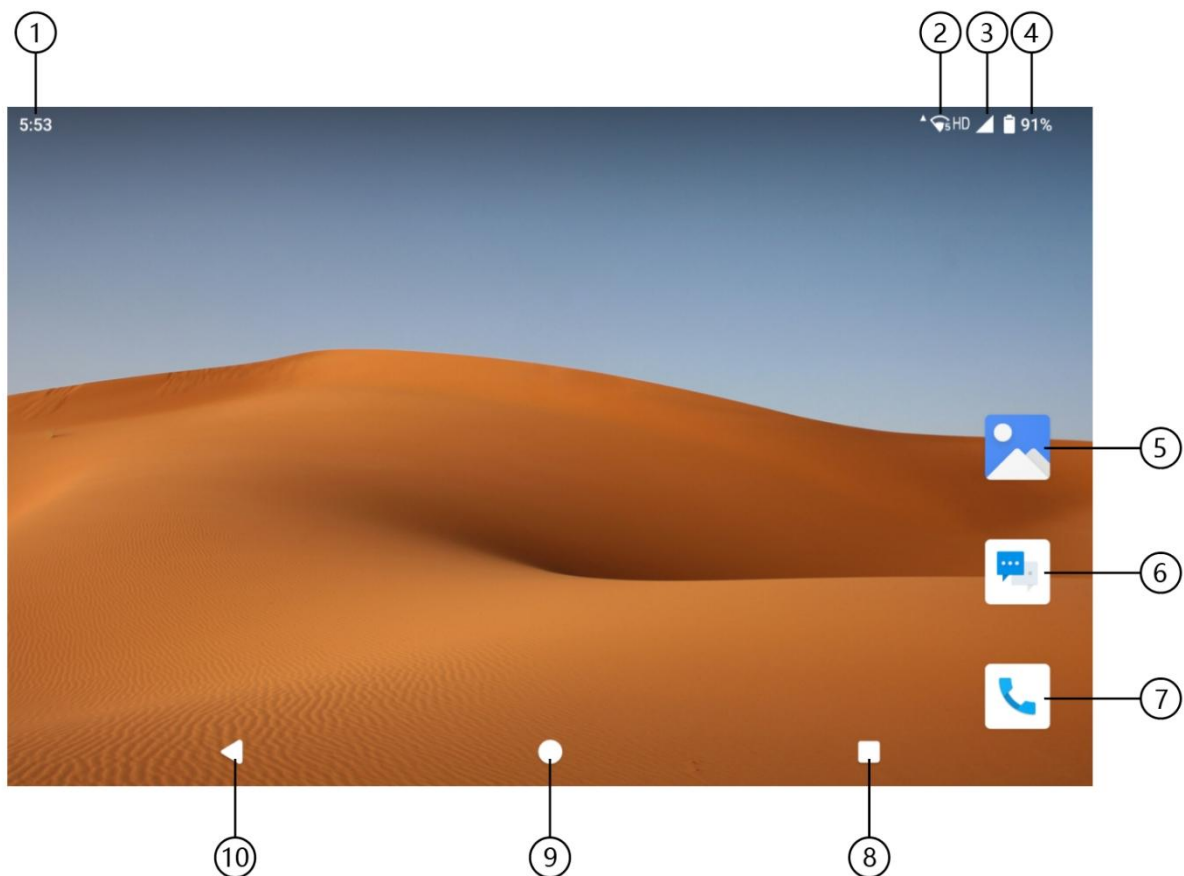


Turn on



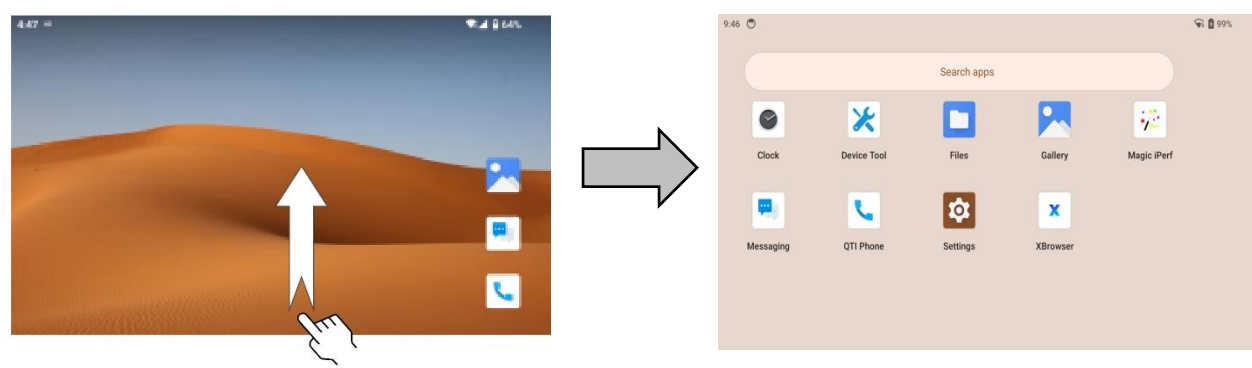
Turn off

2. System Desktop



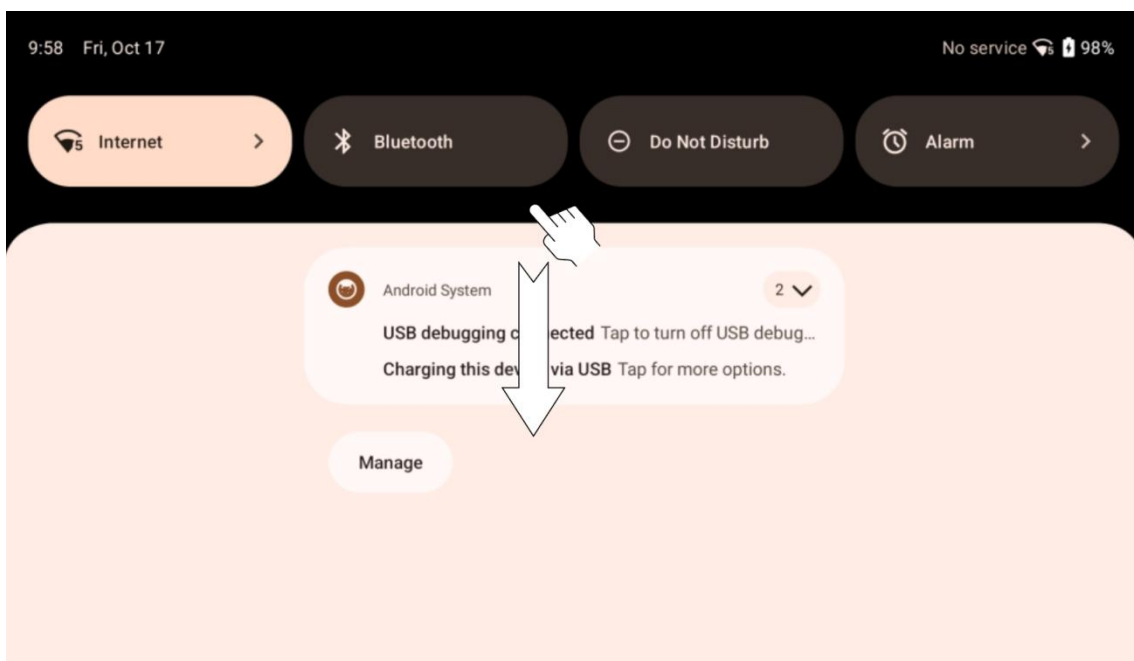
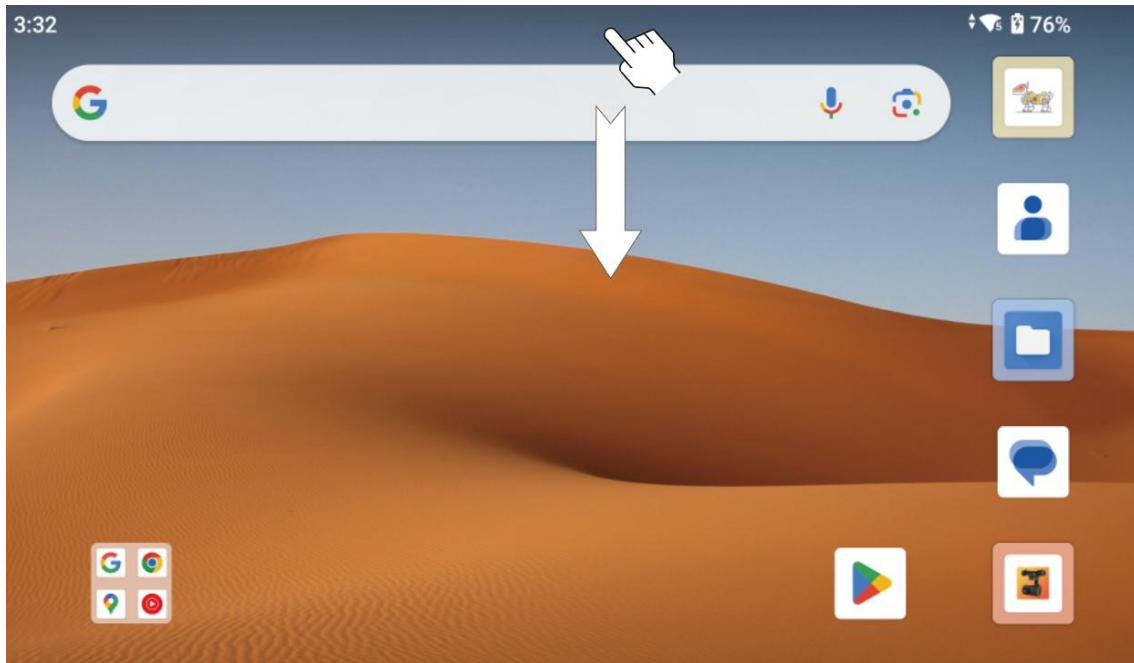
No.	Description	No.	Description
1	Time	6	SMS
2	WIFI Signal Status Display	7	Telephone
3	SIM Card Status Display	8	Task Center
4	Battery Level Display	9	Return to Desktop
5	Gallery	10	Return Action

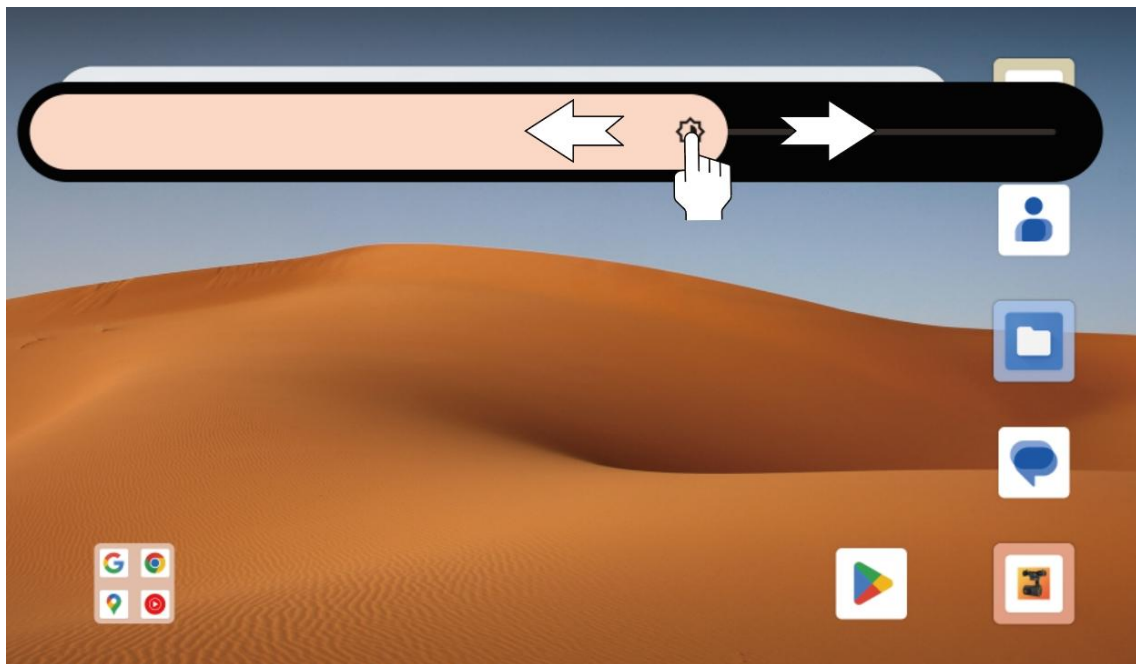
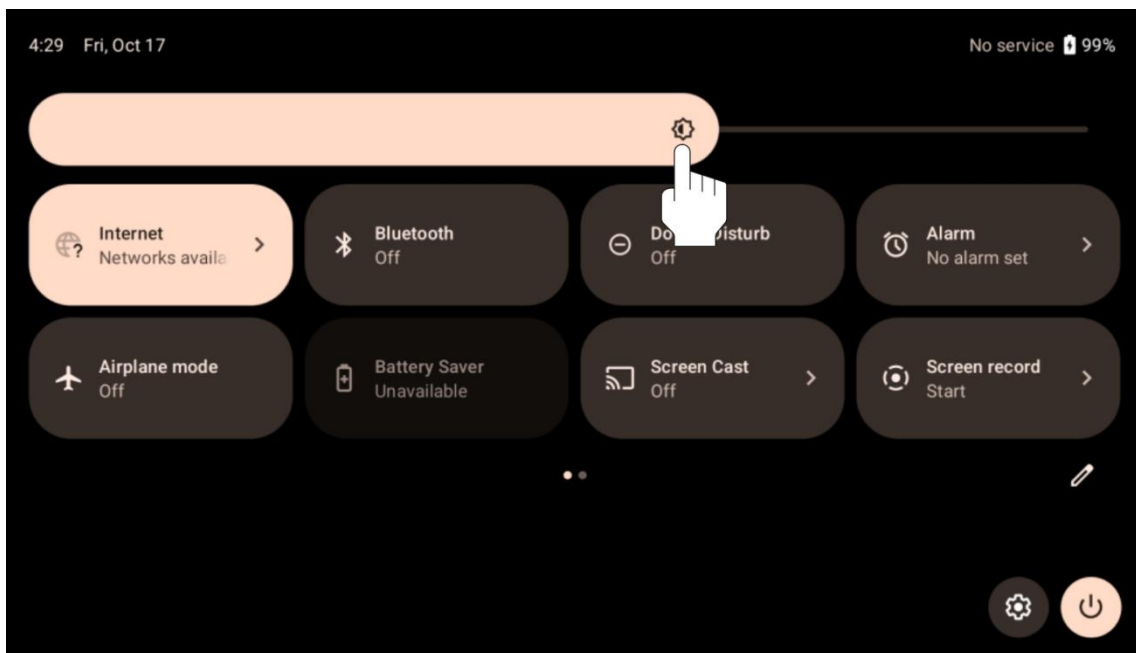
Swipe up from the bottom edge of the screen to access the app interface.



3. Adjusting Brightness

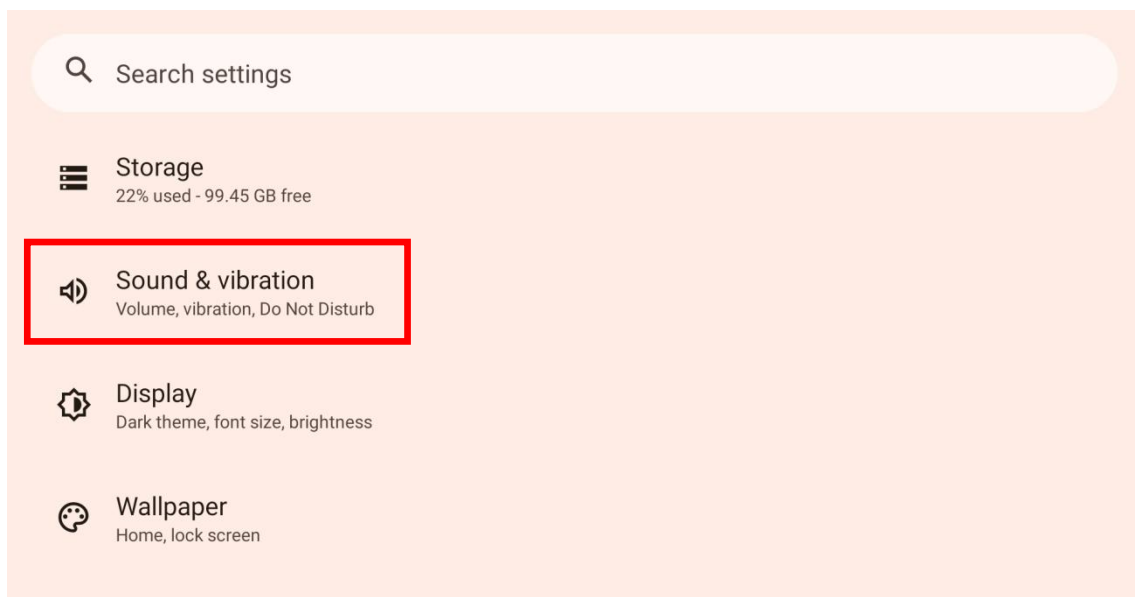
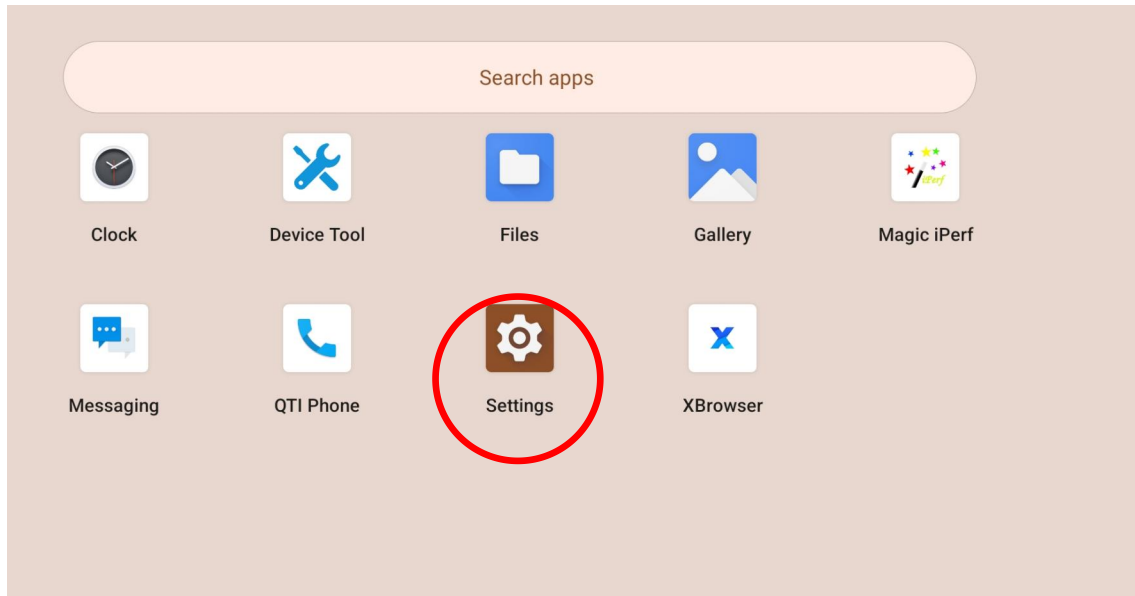
Swipe down from the top of the screen to access the Control Center, then drag the slider to adjust the screen brightness.

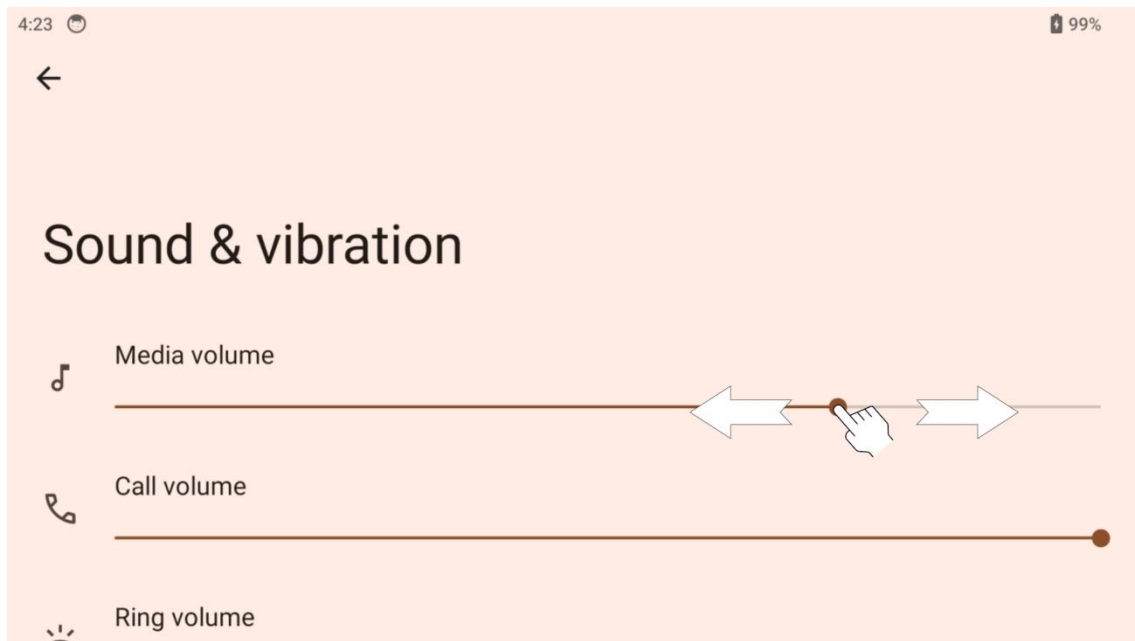




4. Adjusting Volume

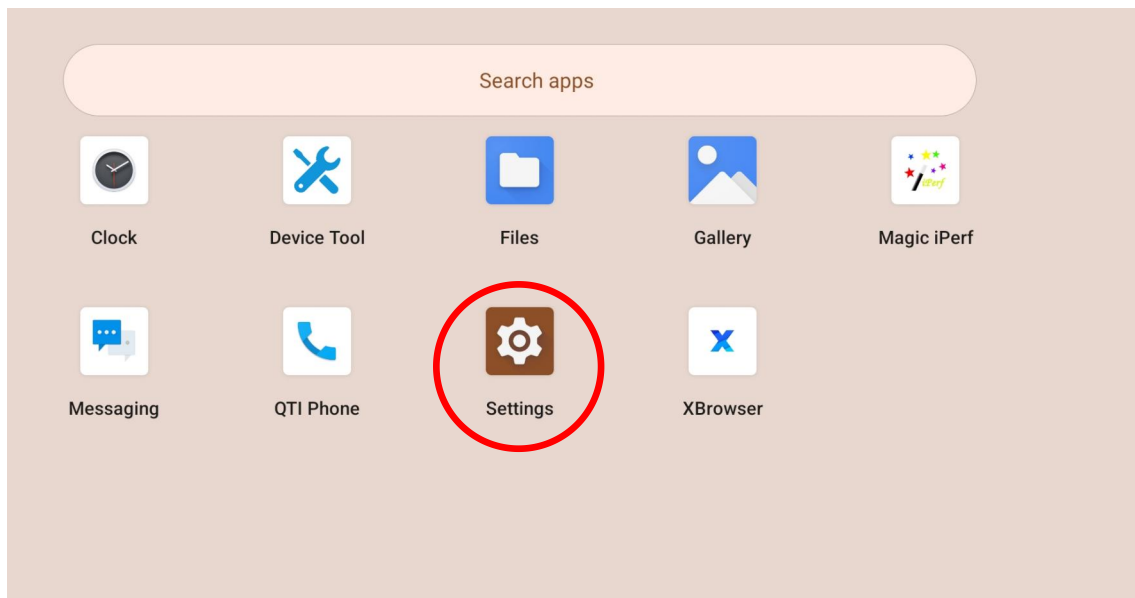
Access the app interface, tap "Settings", locate the "Sound" option, then drag the slider to adjust the volume.

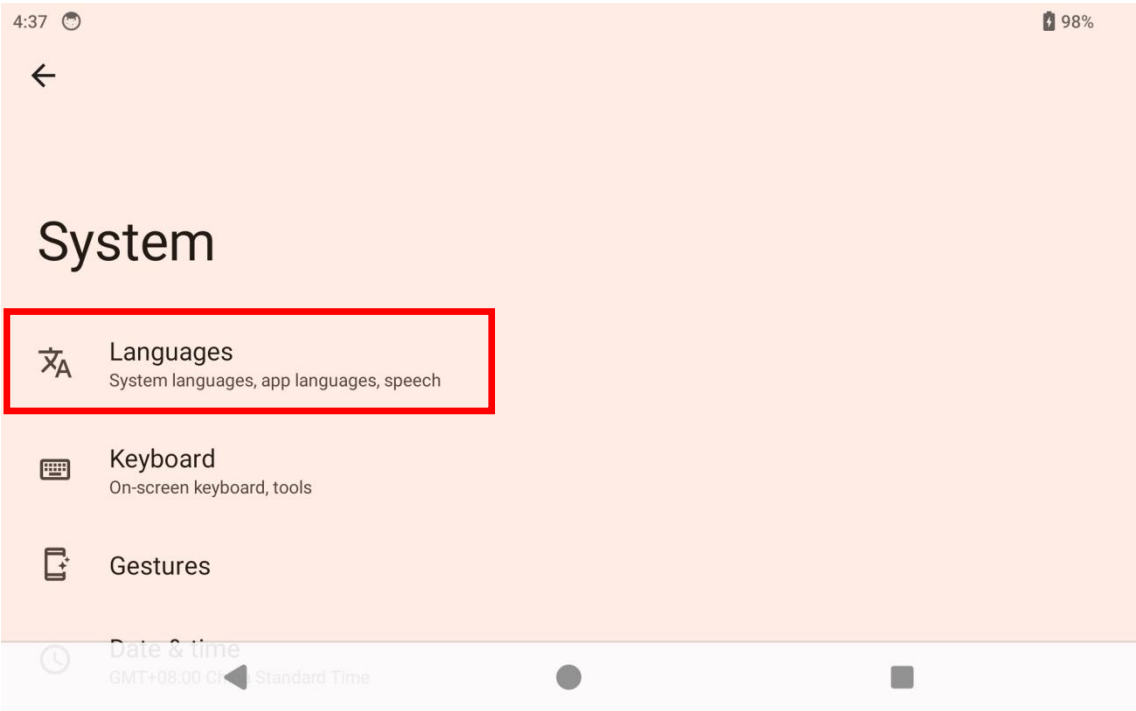
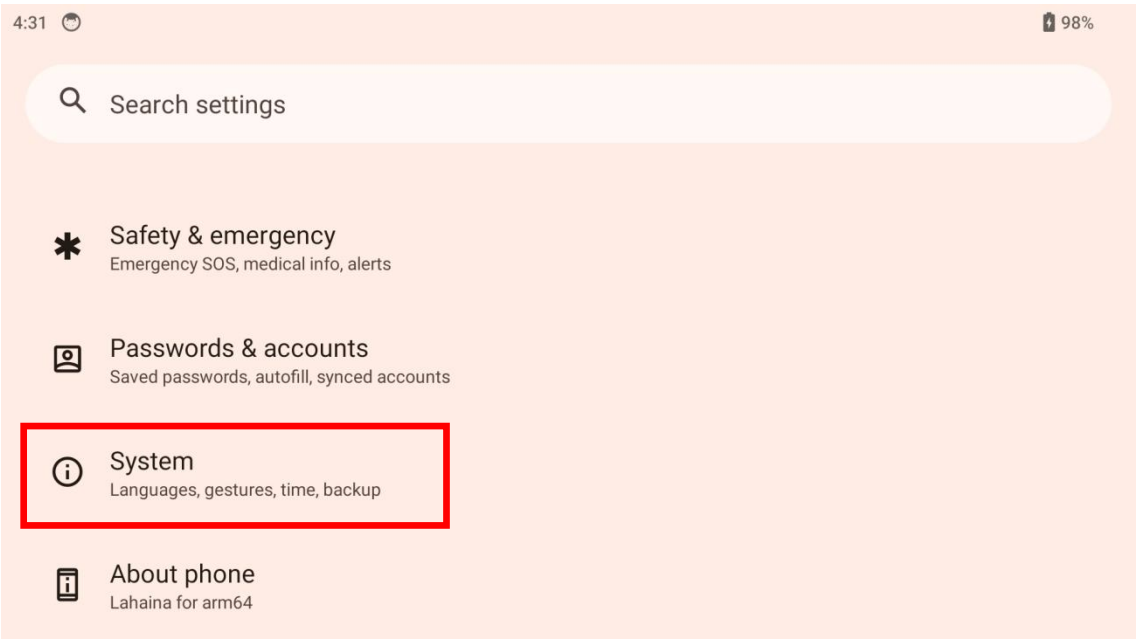


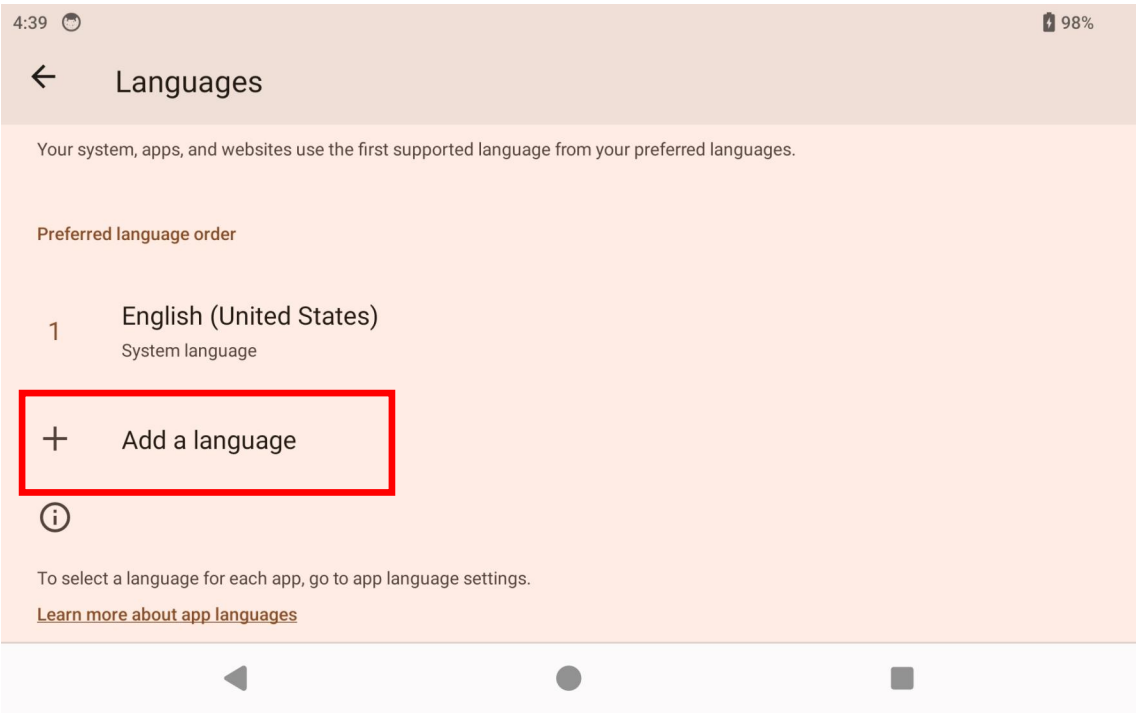
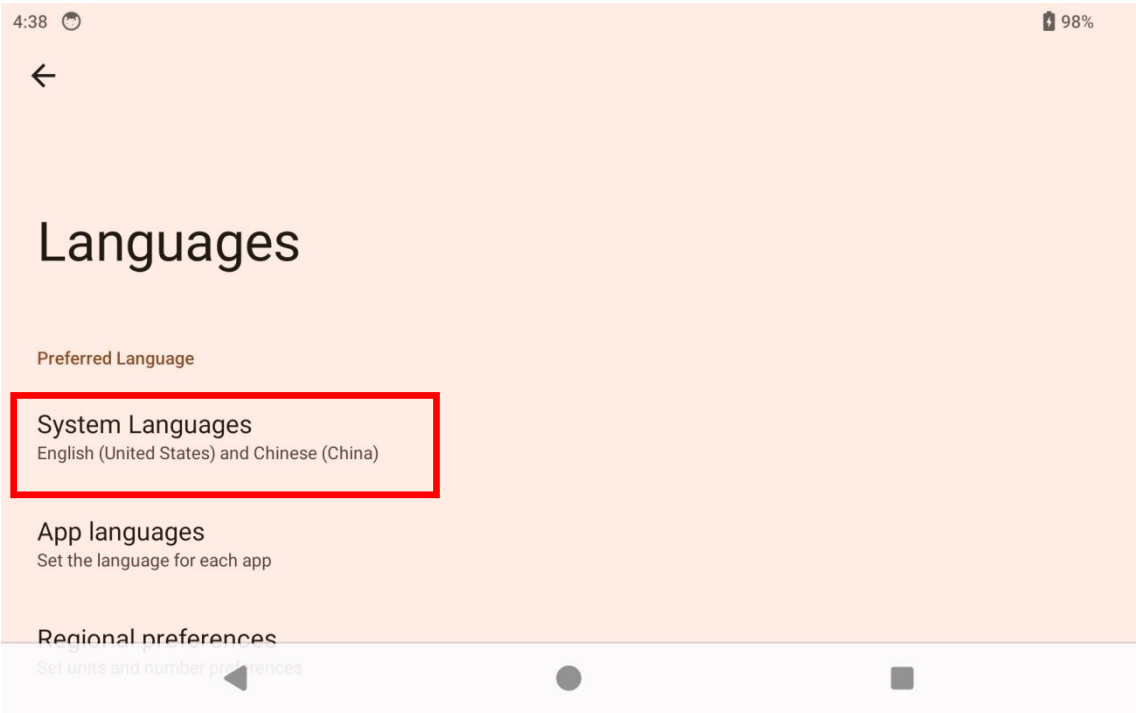


5. Language Settings

Tap "Settings", select "System", tap "Language", select "System Language", select "Add Language", and after adding the desired language, drag it to the top of the list to change the system language.



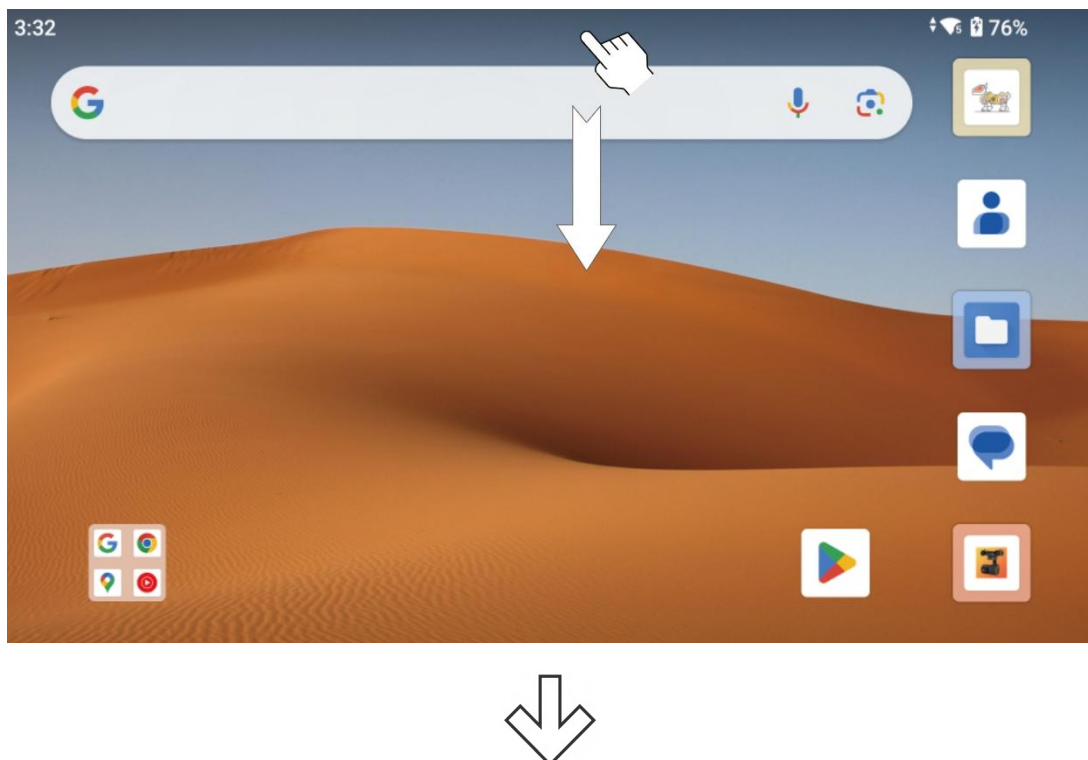


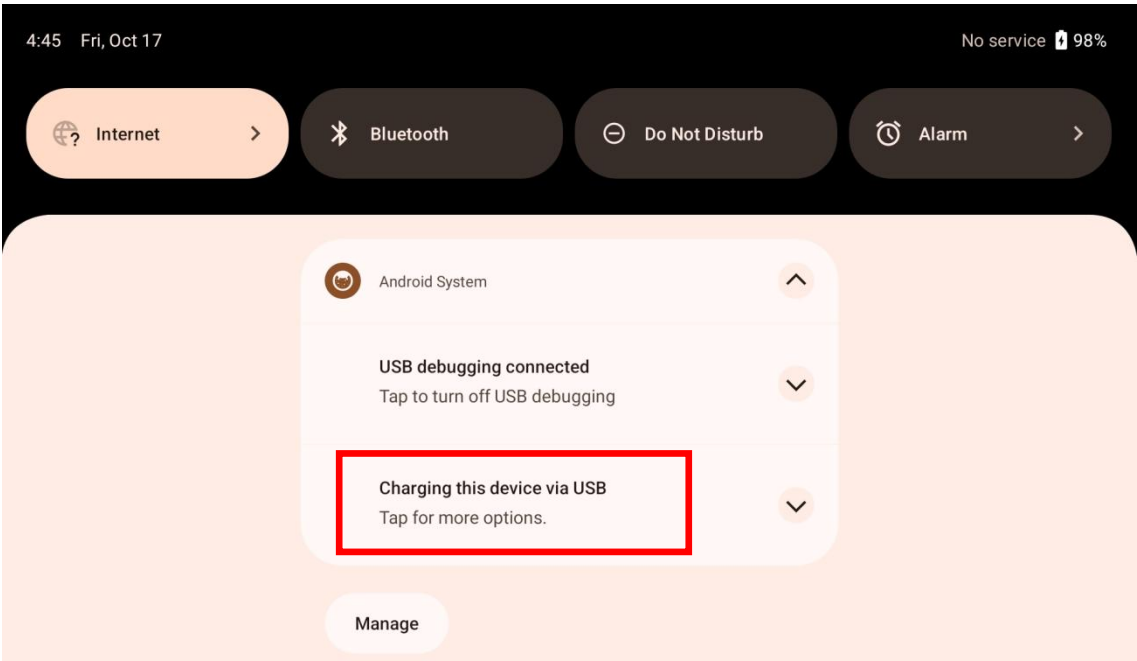
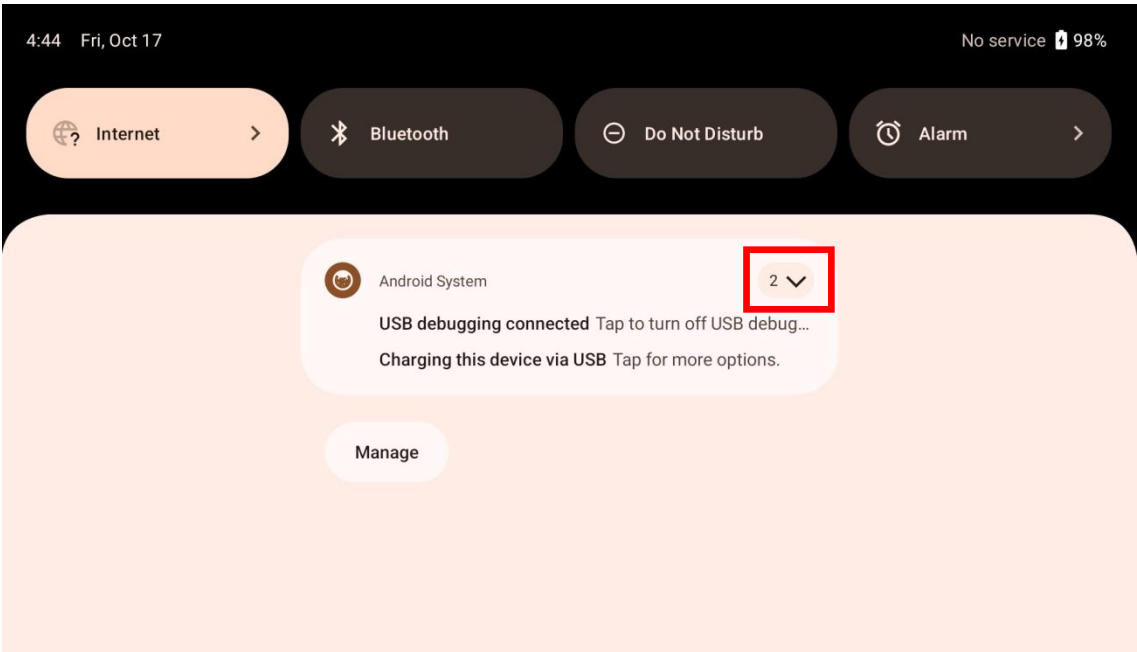


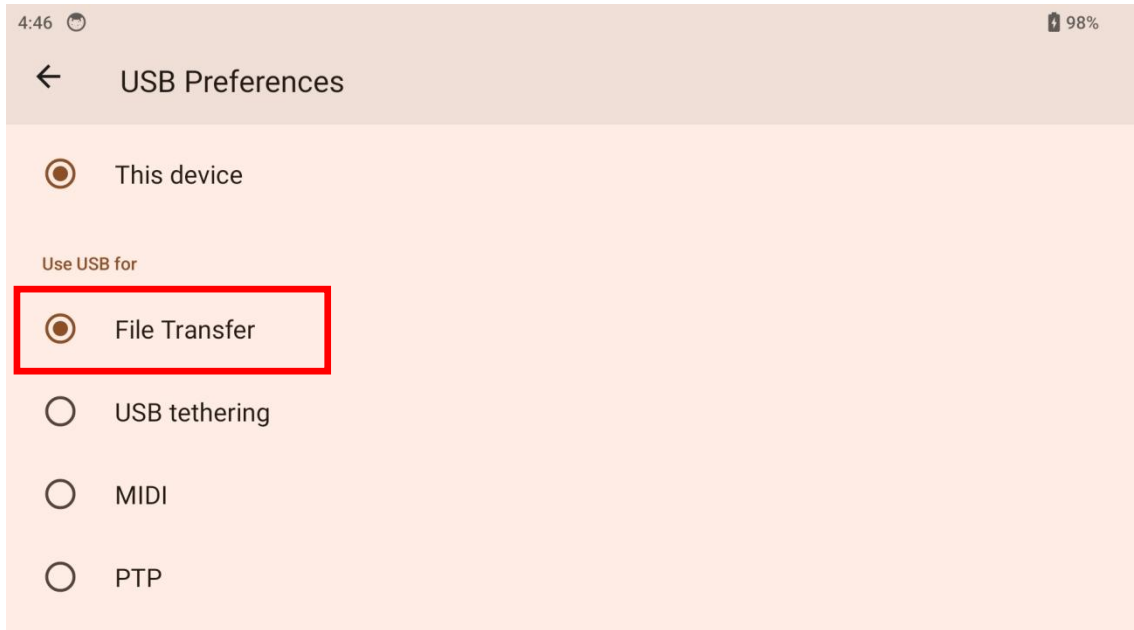


6. Transferring Files to/from a Computer

Connect the remote control to the computer using a Type-C cable, access the Control Center, tap "View More", then select "Files Transfer".

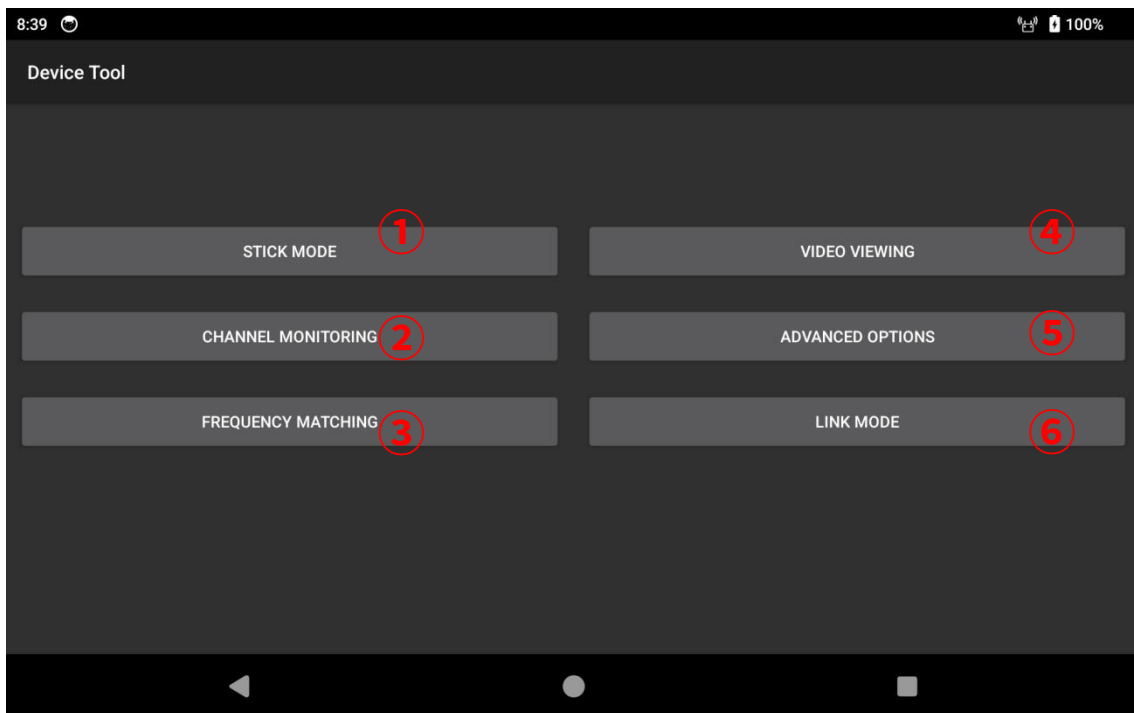




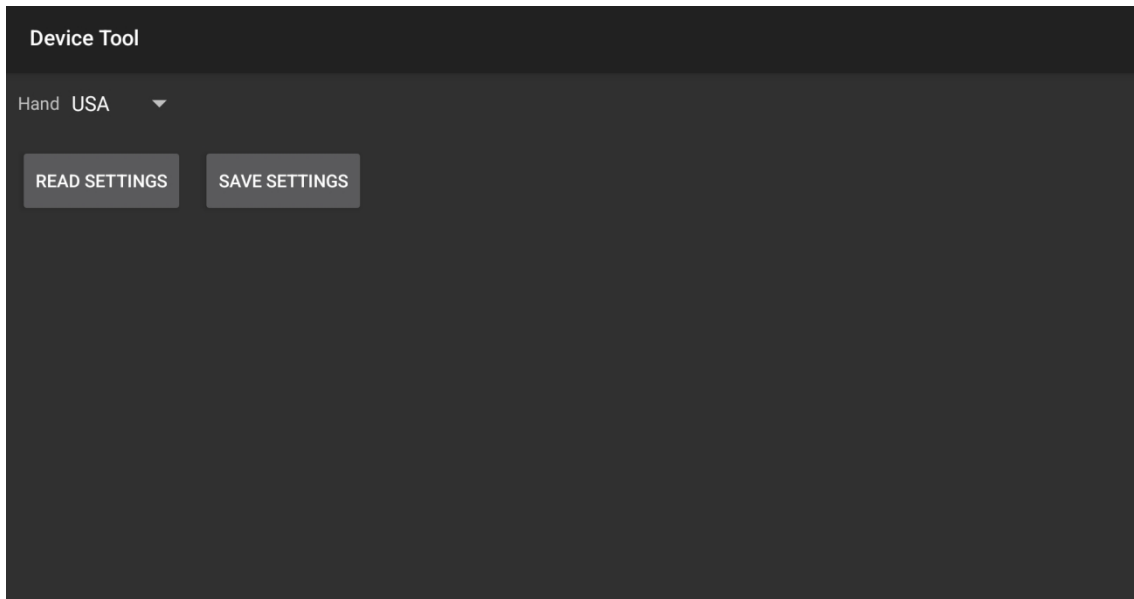


7. Introduction to Device Tool

The tool version needs to be updated to the latest version with an internet connection.



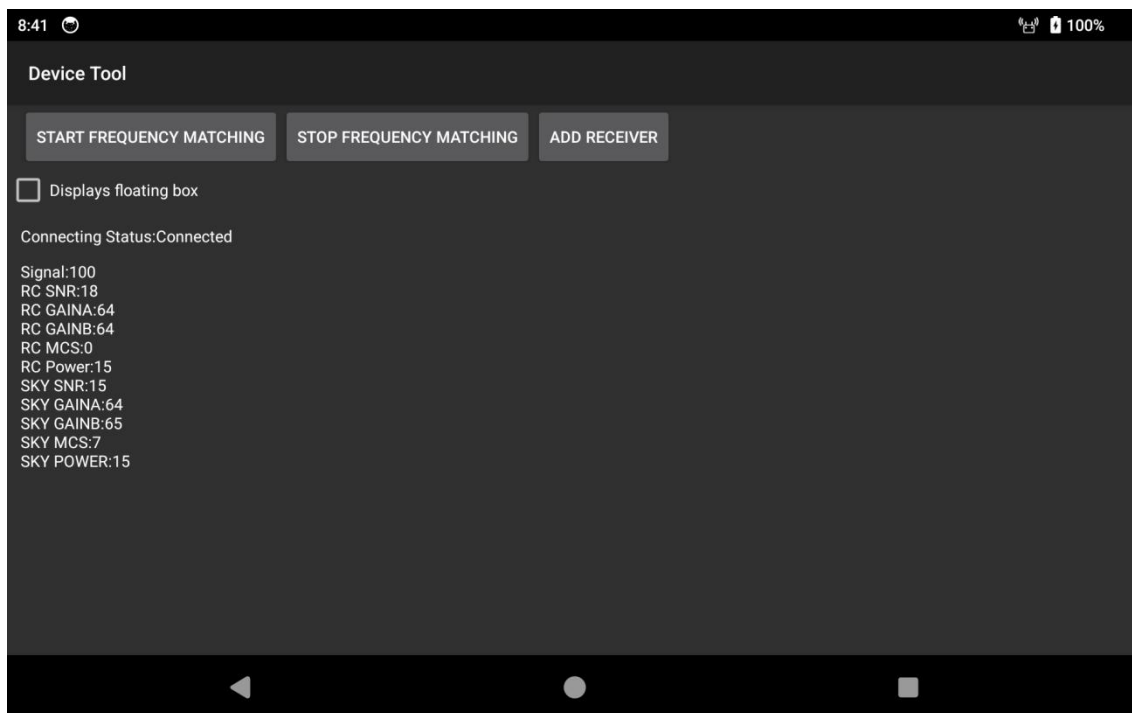
- ① **Stick mode:** The remote control's hand configuration can be set; the default is the USA hand.



- ② **Channel monitoring:** The real-time servo travel values of each channel on the remote control can be viewed.



③ **Frequency matching:** The frequency matching status and frequency pairing information can be viewed.

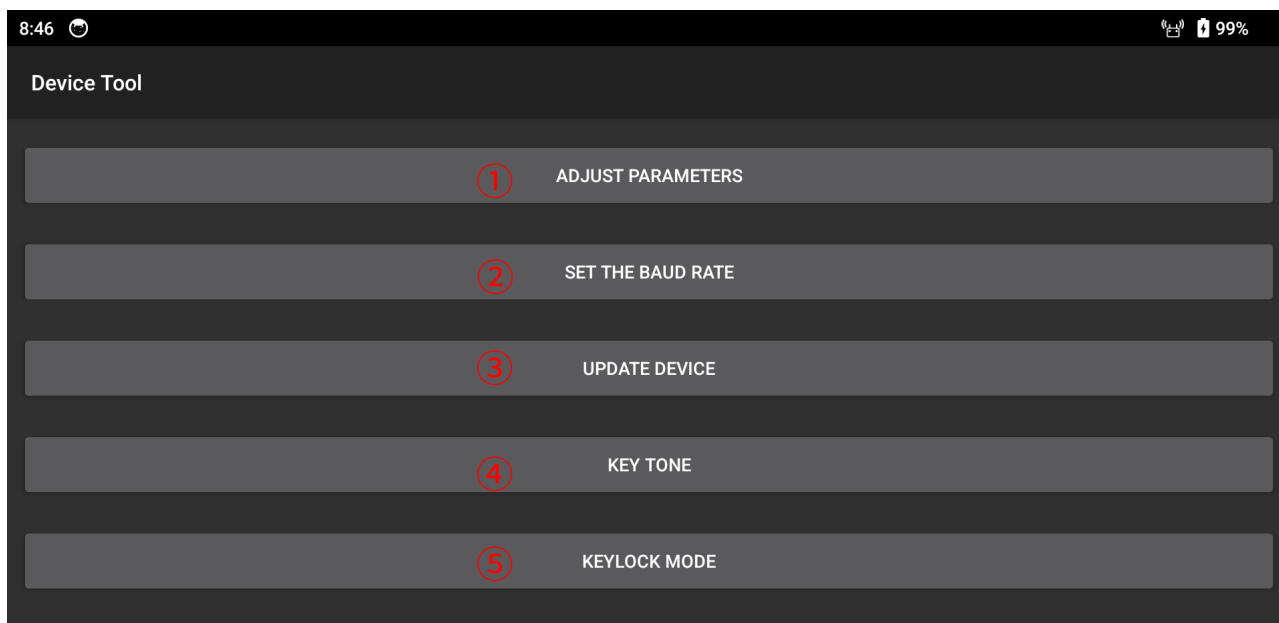


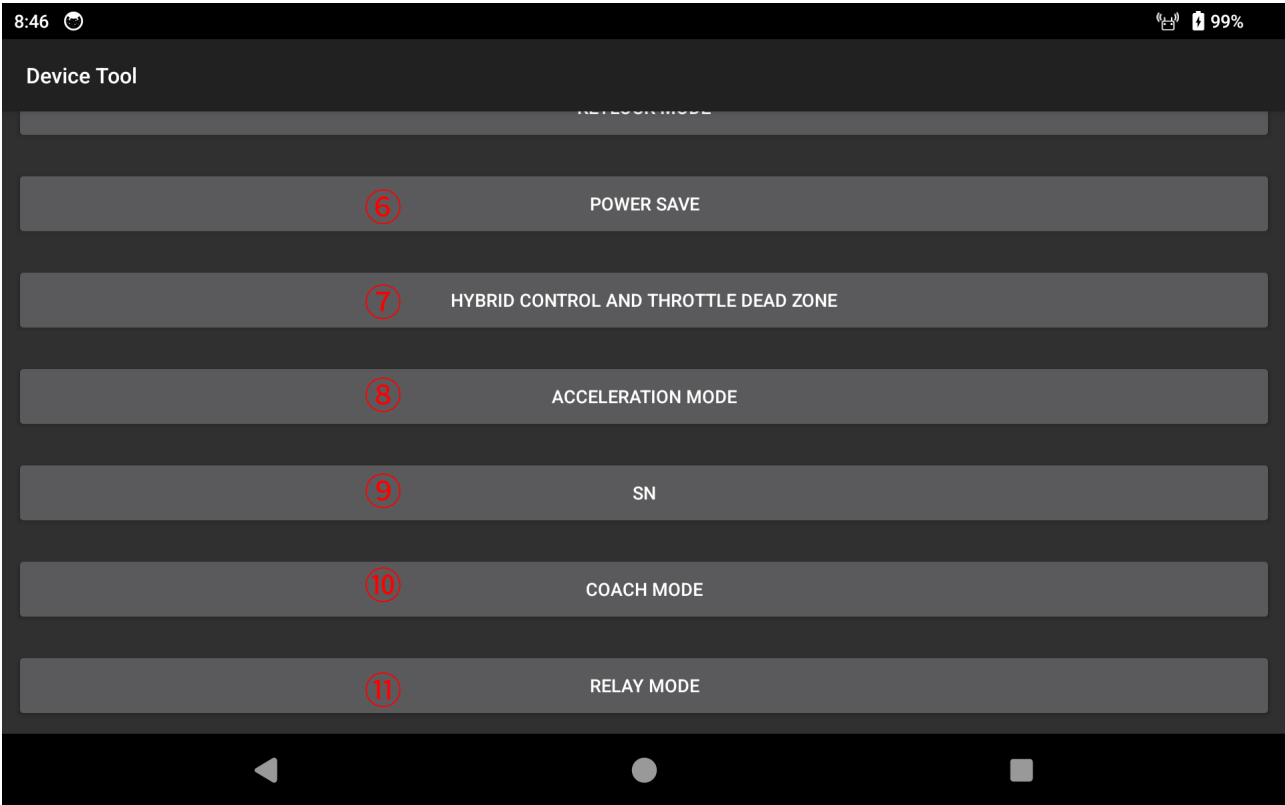
④ **Video Viewing:** The camera feed can be viewed.

⑤ **Advanced Options:** Advanced settings for the remote control receiver can be configured (detailed description below).

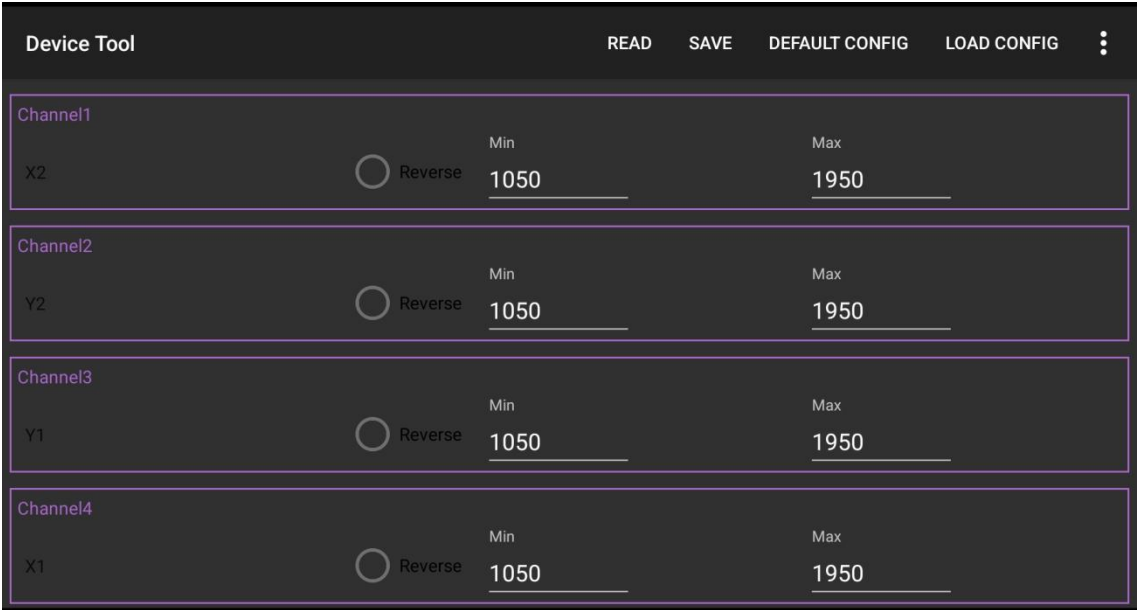
⑥ **Link Mode.**

8. Introduction to Device Tool - ⑤ Advanced Options (Password: 999)

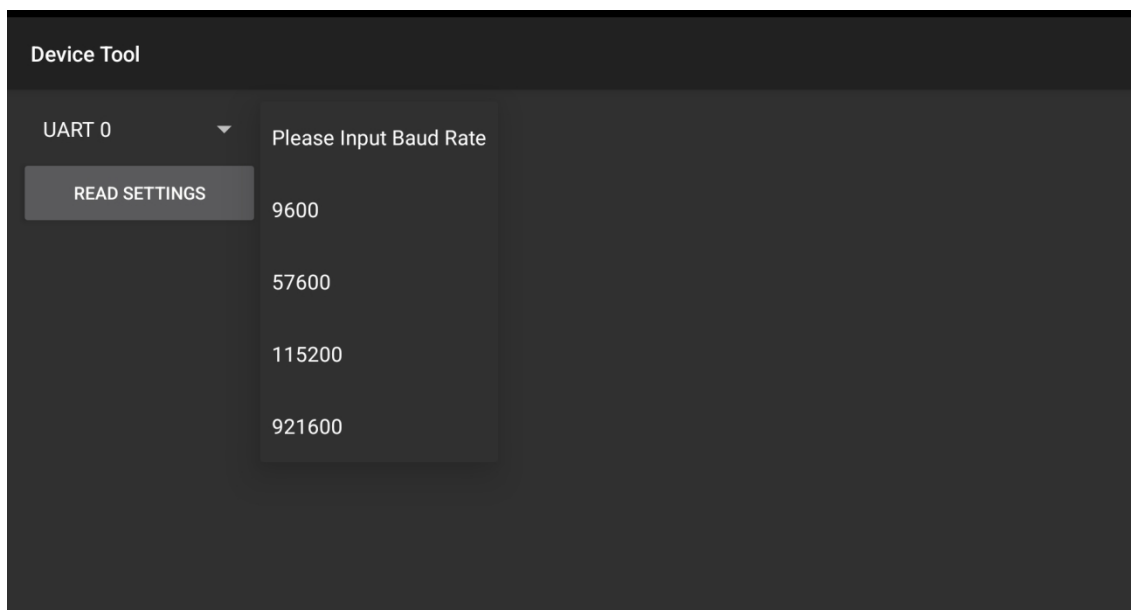




① Adjust Parameters: Allows customization of button channels, setting of reverse directions, and modification of the maximum and minimum servo travel values.



②Set the Baud Rate: Modifies the baud rate of the receiver's serial port.



③ Update Device

1. Upgrade Remote Control MCU Firmware: Upgrade the firmware of the remote control's joystick MCU.
2. Upgrade Receiver Wireless Module: Wirelessly upgrade the RF firmware of the receiver (the receiver must be upgraded first; it can only be upgraded after being powered on and connected to the remote control).
3. Upgrade Remote Control Wireless Module: Upgrade the RF firmware of the remote control.
4. Upgrade Android Wireless Driver: Upgrade the wireless driver of the Android system.
5. Upgrade GR03 SOC: Upgrade the firmware of the GR03 SOC.

④Key Tone: Allows setting of keypad tones and long-press configurations for keys.

⑤Keylock Mode: Enables setting the lock or non-lock mode for keys (e.g., L1).

⑥ Power Save: Permits setting whether key settings are retained after a power outage.

⑦ Hybrid Control and Throttle Dead Zone: Allows setting of the hybrid control switch and throttle dead zone.

⑧ Acceleration Mode: Enables setting of upload mode (enabling upload mode affects range).

- ⑨ SN: Allows the remote control to view the SN (Serial Number).
- ⑩ Coach Mode: Permits setting of PPM output or coach controller mode.
- ⑪ Relay Mode: Enables setting of relay mode and a floating window.

Remote Control Frequency matching

Method 1:

- ① Power on the remote control and the receiver. After power-on, the blue light flashes intermittently; wait for 30 seconds.
- ② Press and hold the frequency matching button on the receiver until the blue light flashes rapidly, then release the button.
- ③ Open the Device Tool on the remote controller, tap "Frequency matching" → "Start matching", and confirm the matching. For matching a single receiver, you can tap "Stop matching" and wait for the "Matching Successful" prompt to appear.
- ④ Once matching is successful, the receiver's indicator light will remain steadily blue.

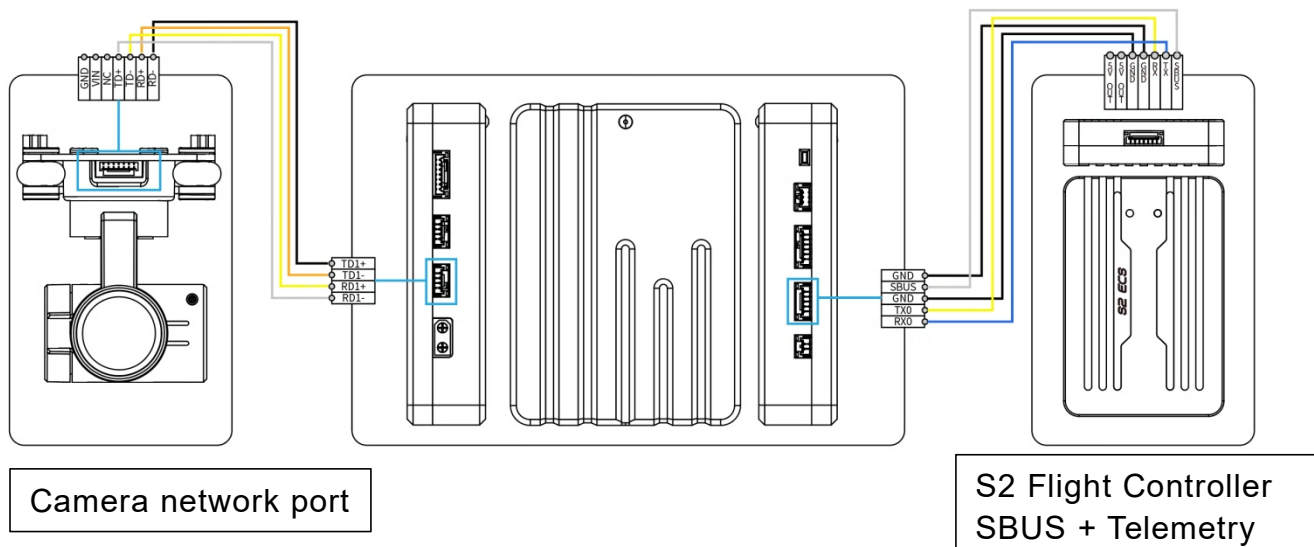
Method 2:

- ① Power the receiver on and off quickly 4 times(A 1-second interval between each power connection) On the 4th power-on, it will automatically enter the frequency matching mode, and the blue light will flash rapidly.
- ② Open the Device Tool on the remote controller, tap "Frequency matching" → "Start matching", confirm the matching, and wait for the "Matching Successful" prompt to appear.
- ③ Once matching is successful, the receiver's indicator light will remain steadily blue.

Note: Keep the distance between the remote controller and the receiver within 50 cm during frequency matching.

9. Video and Data Transmission Connection

The network port is connected to Serial Port 0.



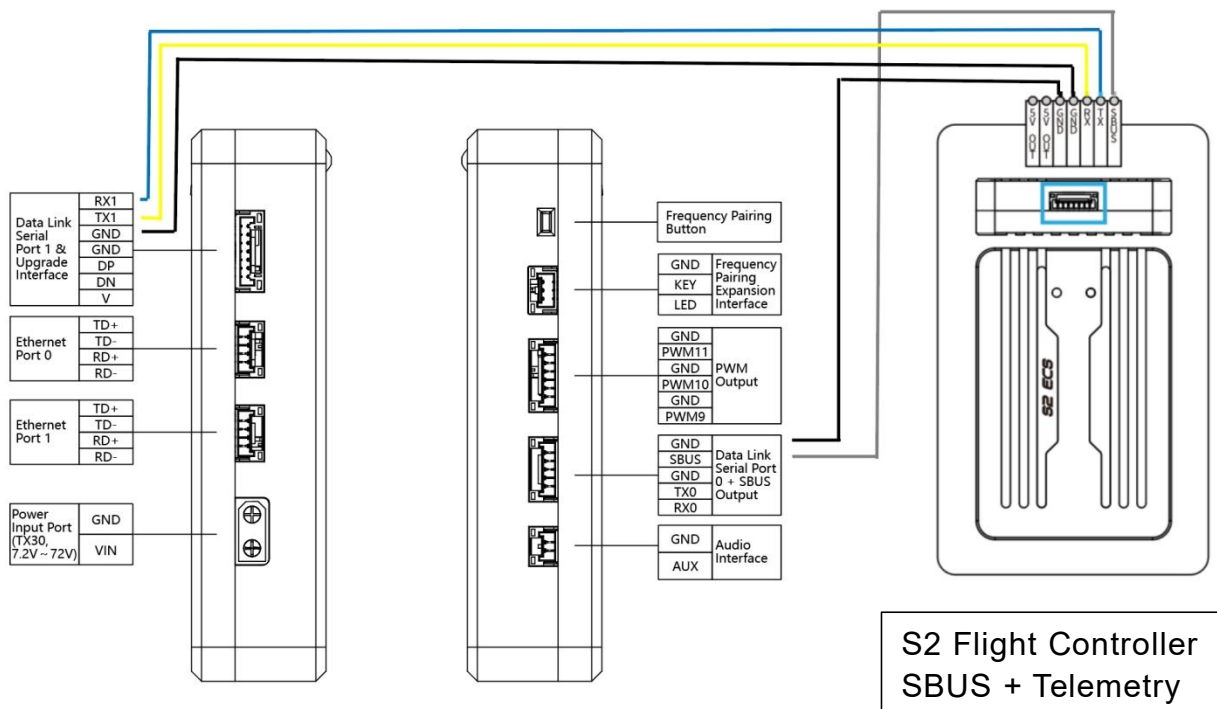
Wire the components as shown in the diagram above:

Connect the SBUS + Data Transmission interface of the receiver to the SBUS + Data Transmission interface of the flight controller.

Connect the Ethernet port of the receiver to the Ethernet port of the camera.

Note: For device power supply and other wiring connections, please refer to the corresponding instruction manual.

Wiring diagram for Serial Port 1



(1) Video Transmission



Taking the Skydroid C10Pro as an example:

Power on the camera and connect it to the receiver's Ethernet port. Open the Gimbal FPV app, and you will be able to see the video transmission feed.

Download link for the Gimbal FPV app:

<https://file.skydroid.xin/SkydroidCameraFPV.apk>

If using a third-party camera:

The camera's network segment needs to be set to the 144 segment (192.168.144.XXX).

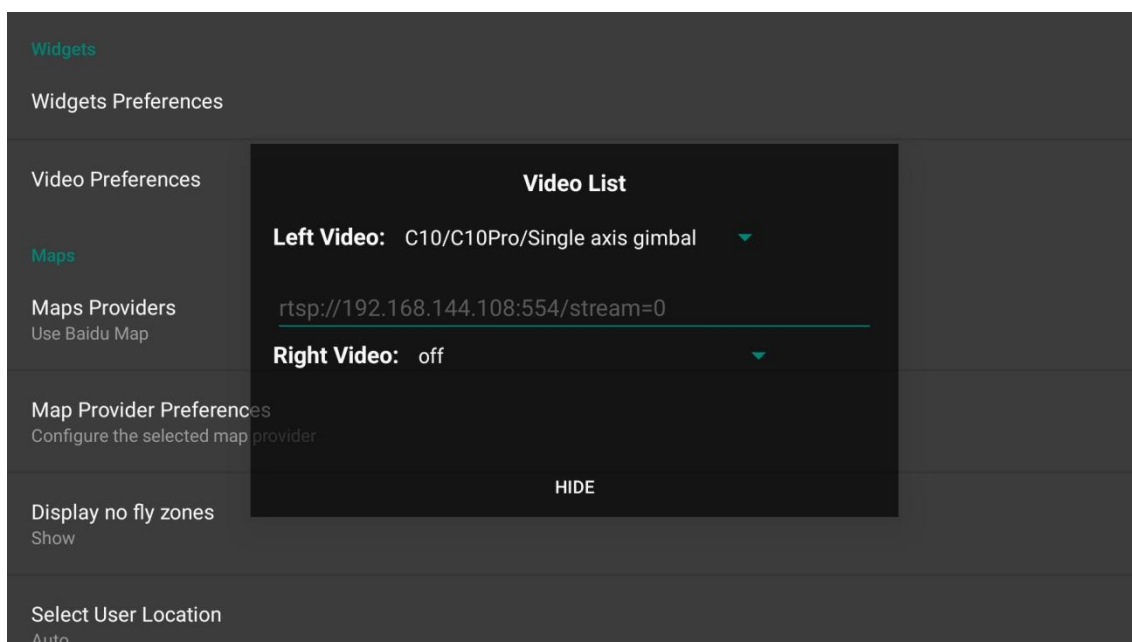
Open the Device Tool → select "Video Viewing" → tap the settings button at the bottom → go to "Video Stream Address" → select "Custom", then enter the camera's RTSP pull stream address.

Note: The RTSP address of the third-party camera needs to be obtained from the manufacturer.

If using the FLY GCS ground station software:

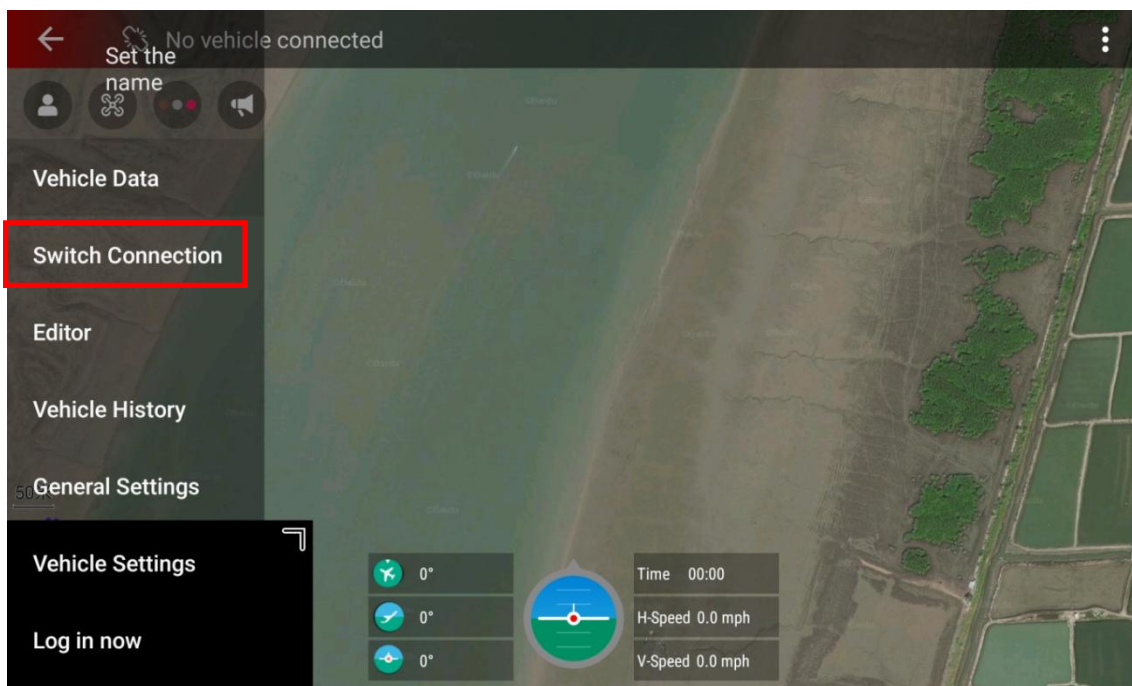
Download link for the Skydroid Fly app: <https://file.skydroid.xin/SkydroidFly.apk>

Navigate to "Common Settings" → "Other Settings" → "User Interface" → "Video Window" → select "C10".



(2) Data Transmission

Taking Skydroid FLY GCS as an example: Enter the ground station, tap the top-left corner, and access the Switch connection interface.



Select the S2 + G20 combination, tap to enter, and click "Connect".

Click the gear icon, select the connection method, choose the serial port through which the current flight controller is connected to the receiver, and then click to enter.

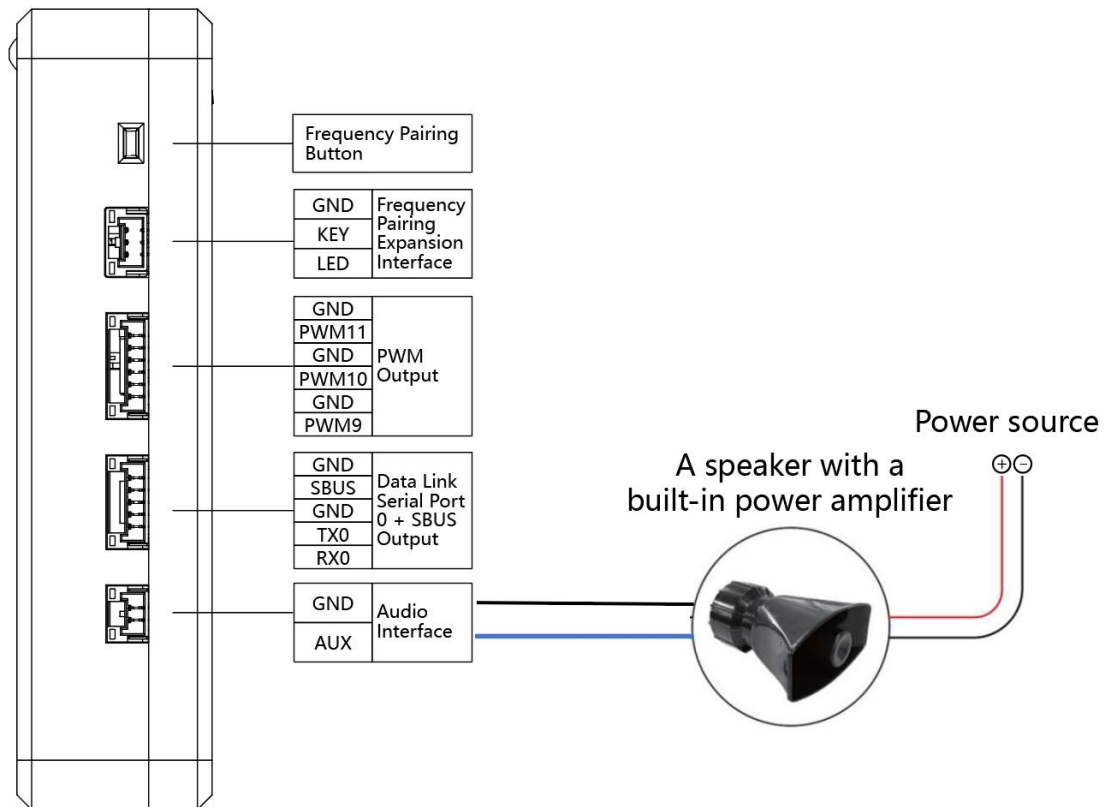


Note: If the connection fails, please check the following:

- ① Whether the baud rate of the receiver's serial port is consistent with that of the flight controller's data transmission port; (The baud rate of the S2 flight controller is 921600, which can be set in Assistant - Advanced - 999 - Baud Rate Settings);
- ② Whether the wiring definition of the data transmission is correct (RX connected to TX).

(3) Intercom Function

Receiver Audio Wiring Diagram



a. Switch to the Video page, tap the icon , and the following intercom settings will pop up.

b. Single Record: Use the remote controller's built-in microphone for one-time voice transmission.

c. Loop Record: Use the remote controller's built-in microphone for continuous looped voice transmission.

Note: To use the intercom function, speak with your mouth close to the remote controller's microphone.

d. Select MP3: Use an MP3 file for intercom playback.

e. Text: Convert text to voice for intercom playback.

f. Start Play: Toggle between play and pause for playback.

g. SQ: Toggle the playback sound quality (options: Smooth Sound Quality / High-Definition Sound Quality).



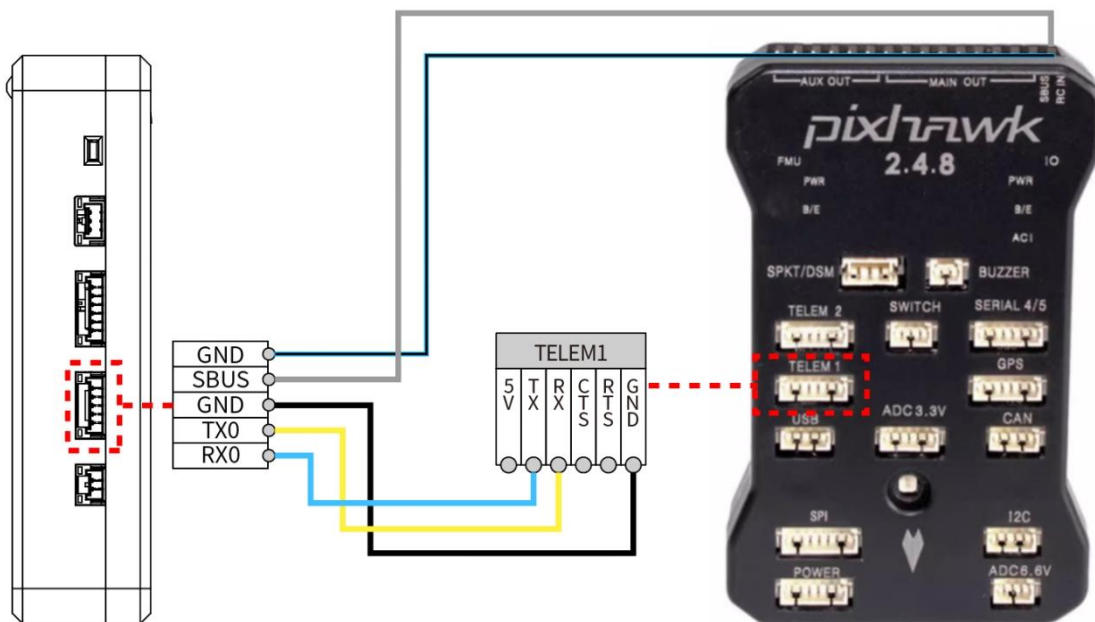
10. How to Display Data Transmission and Video Transmission on the G30

Remote Controller' s QGroundControl Ground Station

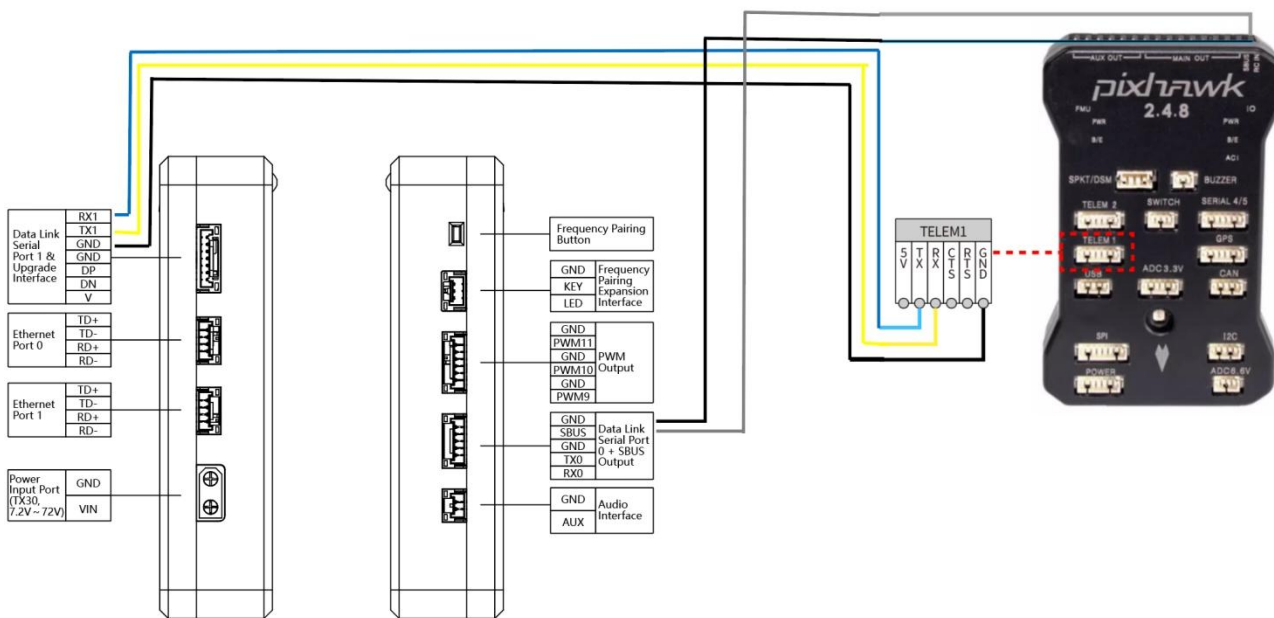
Connect the data transmission cable of the open-source flight controller to the data transmission port of the receiver. Take the QGroundControl (QGC for short; current version: V4.4.3 64-bit) ground station as a reference for data transmission connection. QGC official website download link: <http://qgroundcontrol.com>

Note: The S2 flight controller can only be used with the Skydroid FLY ground station; do not connect it via QGC.

Diagram of Open-Source PIX Flight Controller SBUS + Data Transmission Connection:

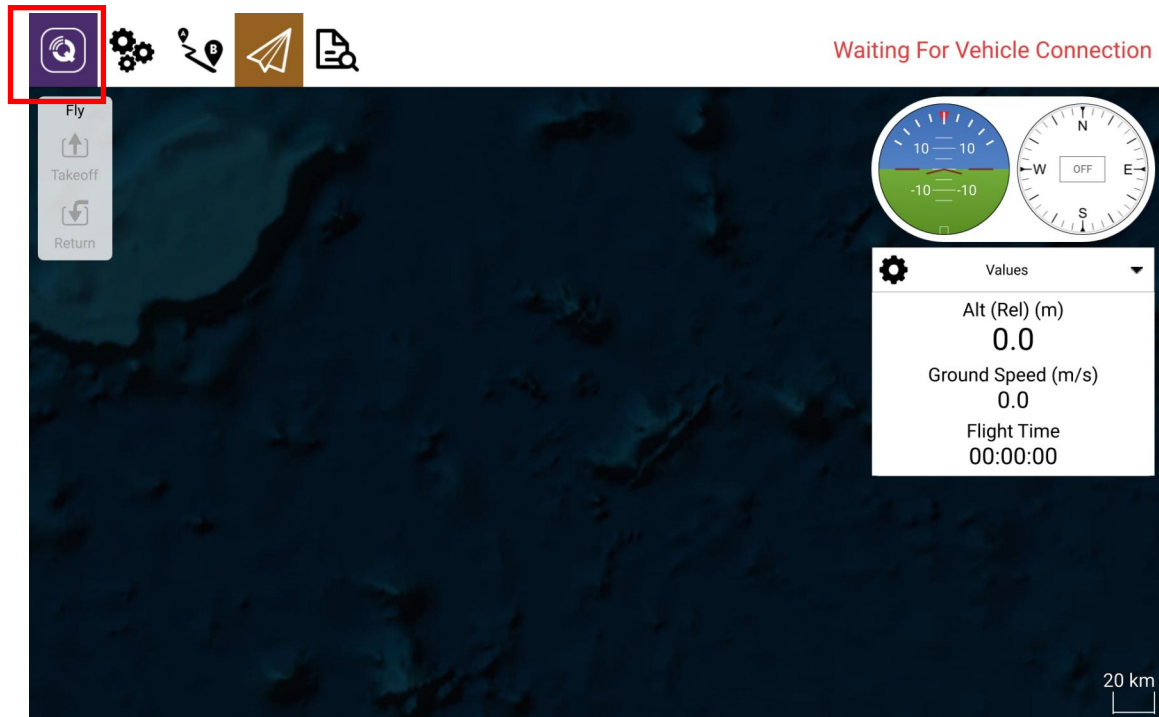


Wiring Diagram for Serial Port 1

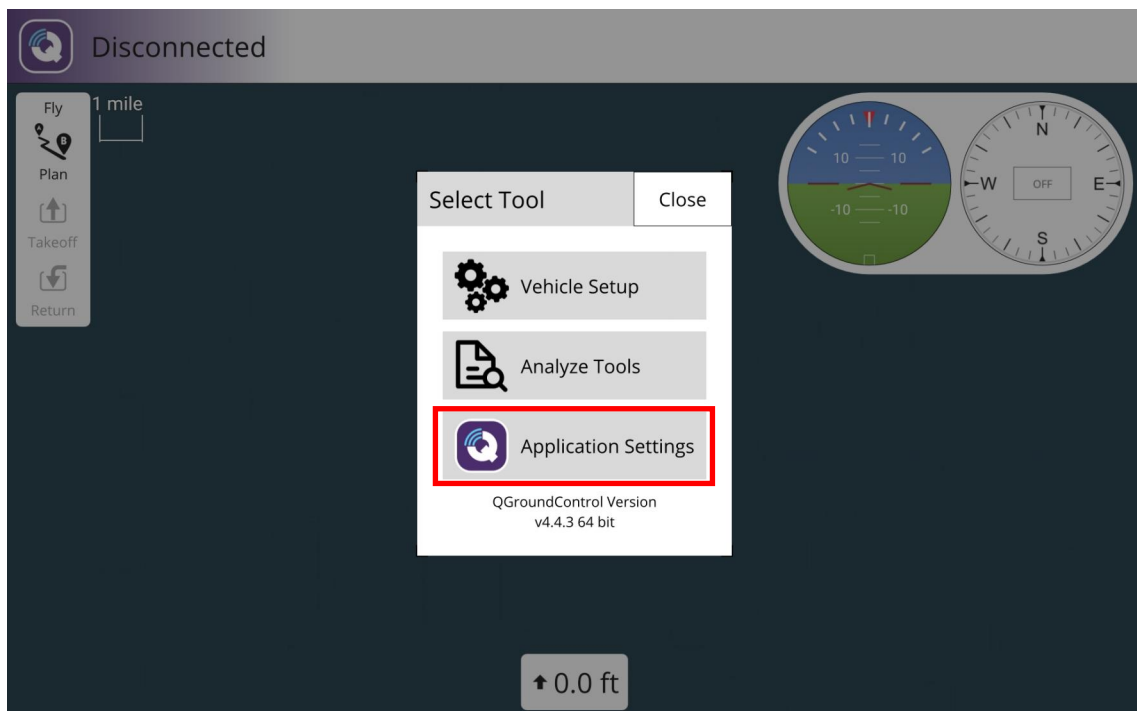


11.1 QGC Data Transmission Settings

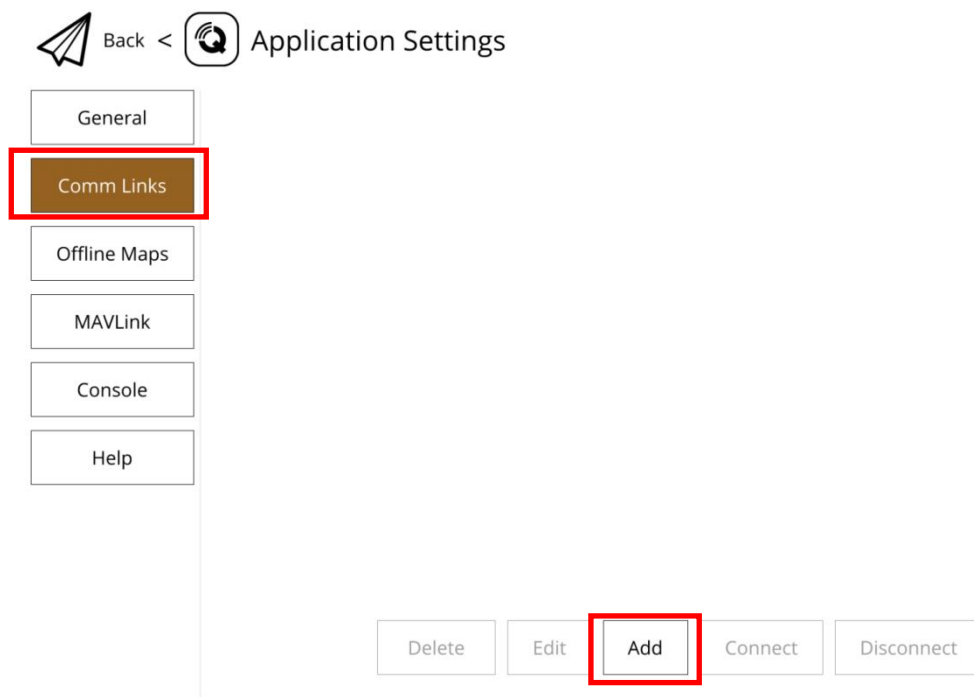
(1) Click the Q icon in the top-left corner of QGC.



(2) In the pop-up window that appears, select "Application Settings".



(3) Click "Comm Links", then click "Add".



(4) Data Transmission Settings:

- ① Under NAME, enter a custom name;
- ② Check the box for "Automatically connect on start";
- ③ Click to expand the Type (connection method) dropdown and select UDP;
- ④ Set Port to 14551;
- ⑤ In the input box under Server Addresses, enter the data transmission IP address: 127.0.0.1:14552;
- ⑥ Click "Add Server" (to add the address);
- ⑦ Click "OK" to confirm.



Back <



Application Settings

- General
- Comm Links**
- Offline Maps
- MAVLink
- Console
- Help

Create New LINK Configuration

Name ①

☒ Automatically Connect on Start ②

☐ High Latency

Type ③

Note: For best performance, please disable AutoConnect to UDP devices on the General page.

Port ④

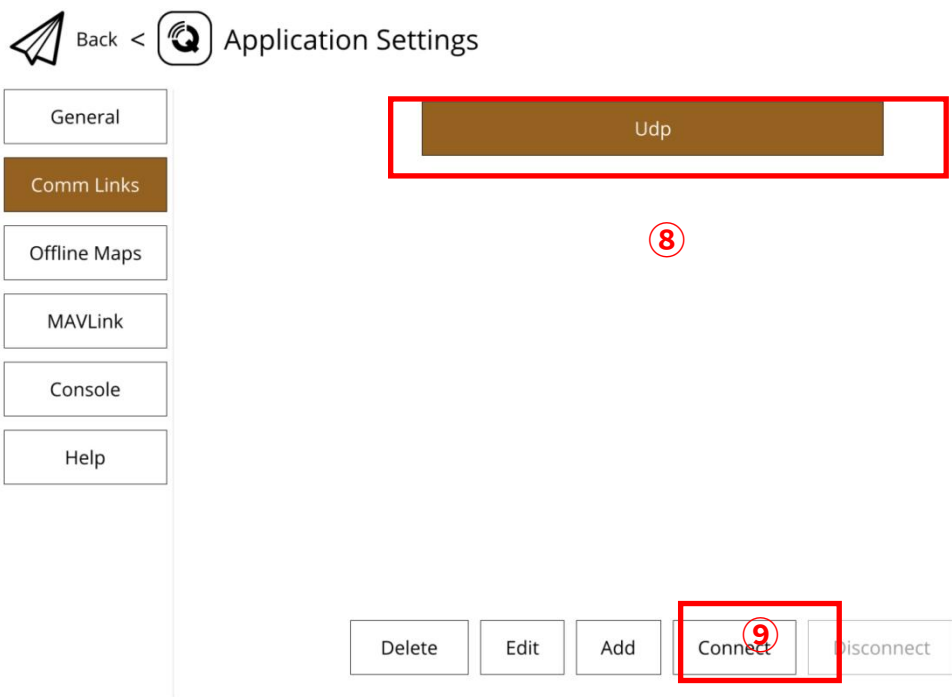
Server Addresses (optional)

⑤ ⑥

⑦

⑧ Select the UDP connection named earlier;

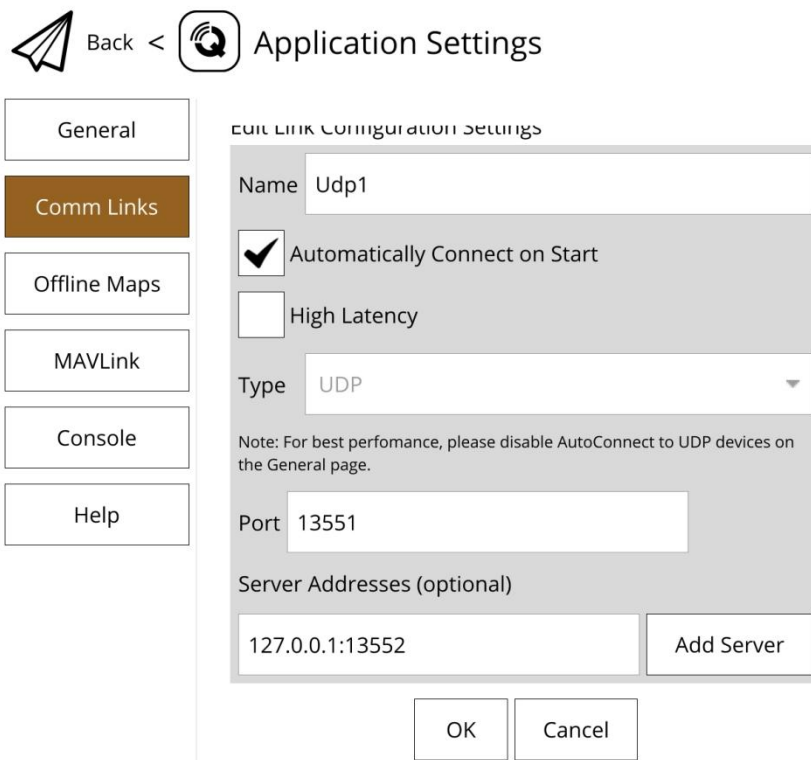
⑨ Then click "Connect".



(5) Establish a normal connection with the flight controller's data link.

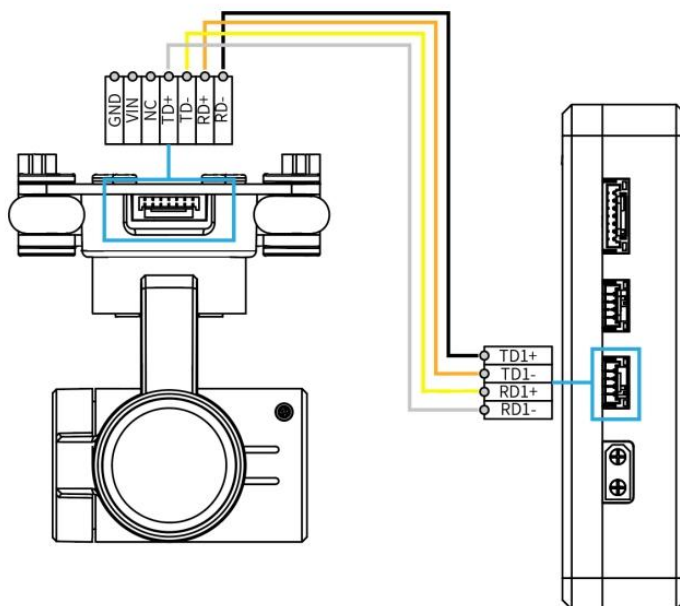


If the receiver uses Serial Port 1, you need to change the connection method to the one shown in the figure below.

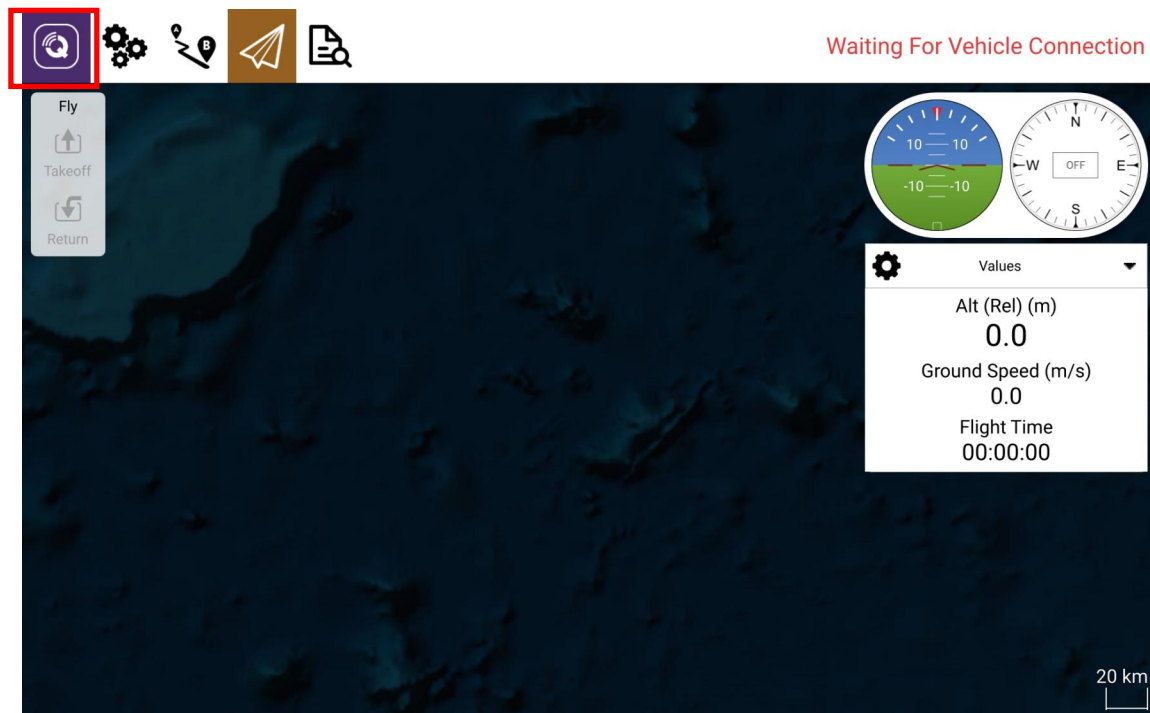


11.2 QGC Image Transmission Settings

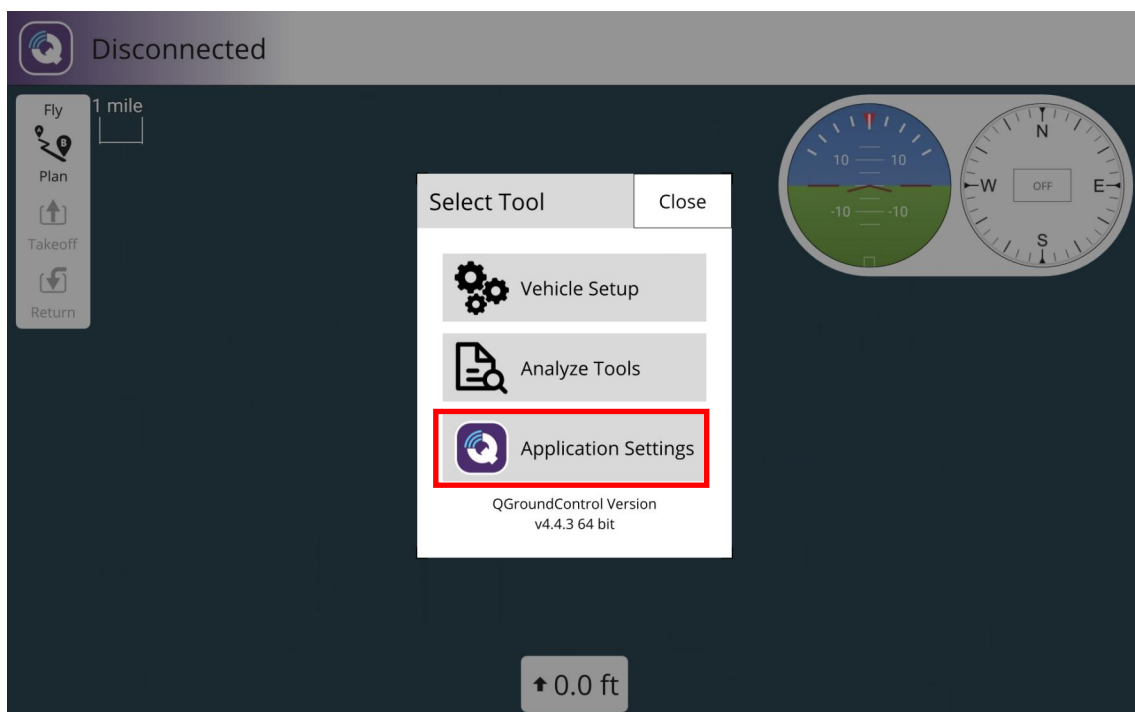
Take the G30 remote controller with QGC ground station as an example for reference to connect the C10pro camera for image transmission (the G30 Tool needs to be closed). The network port cable needs to be twisted-pair.



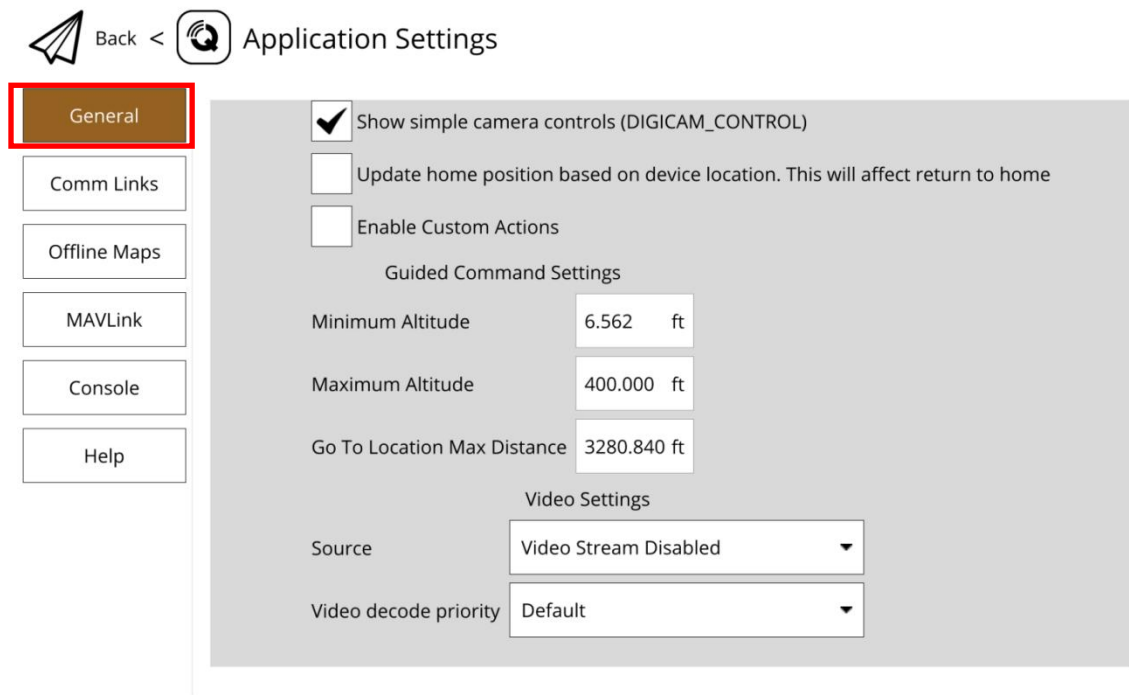
(1) Open QGC and click the Q icon in the upper left corner of QGC.



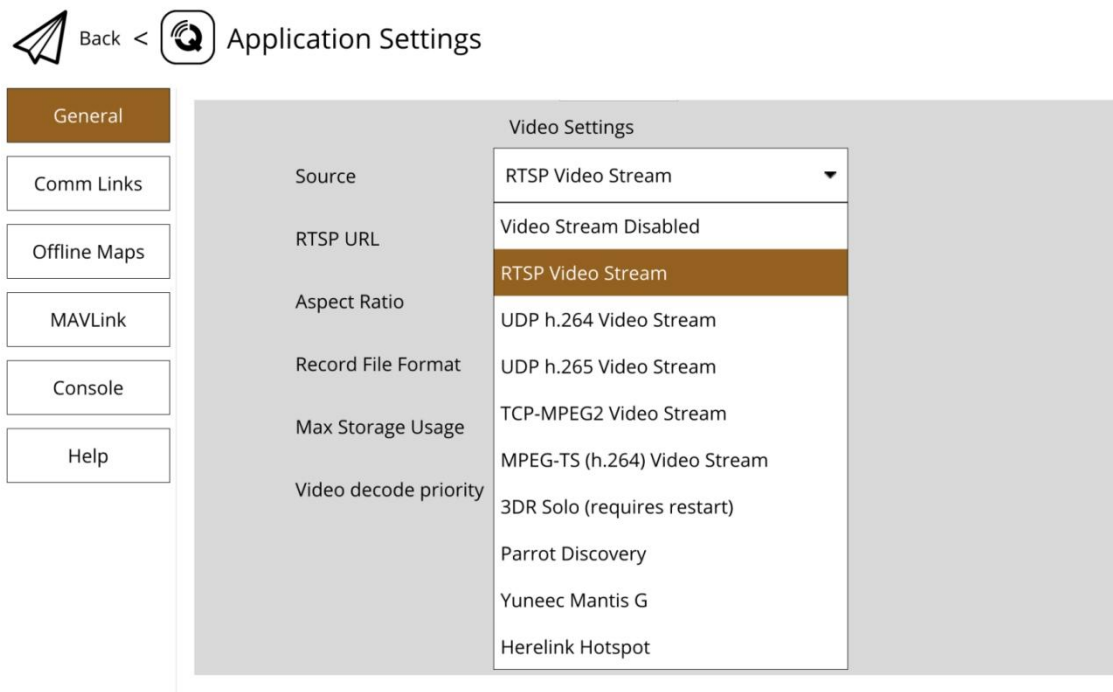
(2) In the pop-up window that appears, select Application Settings.



(3) Click General (General Settings).



(4) Change Source (Video Source) to RTSP Video Stream.



(5) Enter the RTSP address of the Ethernet camera in the RTSP URL field.

For C10PRO/Ethernet Triple-body camera (requires connection to C10PRO): RTSP address is `rtsp://192.168.144.108:554/stream=0`.

For C12 Dual-spectrum camera:

Stream 1: `rtsp://192.168.144.108:554/stream=1`

Stream 2: `rtsp://192.168.144.108:555/stream=2`

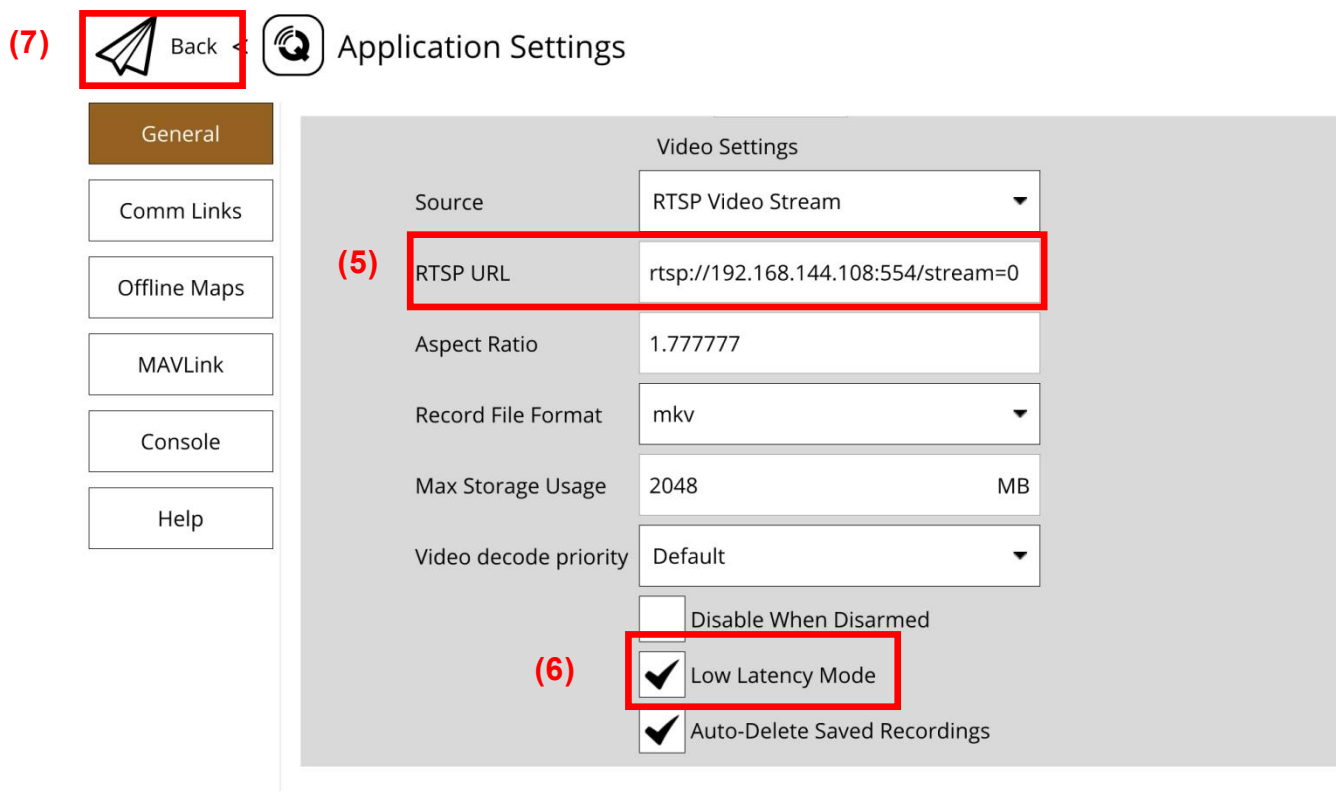
For C20 camera: RTSP address is `rtsp://192.168.144.108:554/main`.

For third-party cameras that only support stream pulling for display: After setting up the custom configuration, enter the corresponding RTSP stream-pulling address of the camera in the field below.

Note: The camera's network segment must be set to the 144 segment (192.168.144.x).

(6) Check the Low-Latency Mode.

(7) Click the aircraft icon in the upper left corner and select "Back" to return to the flight page.



(8) Connect to the image transmission normally.



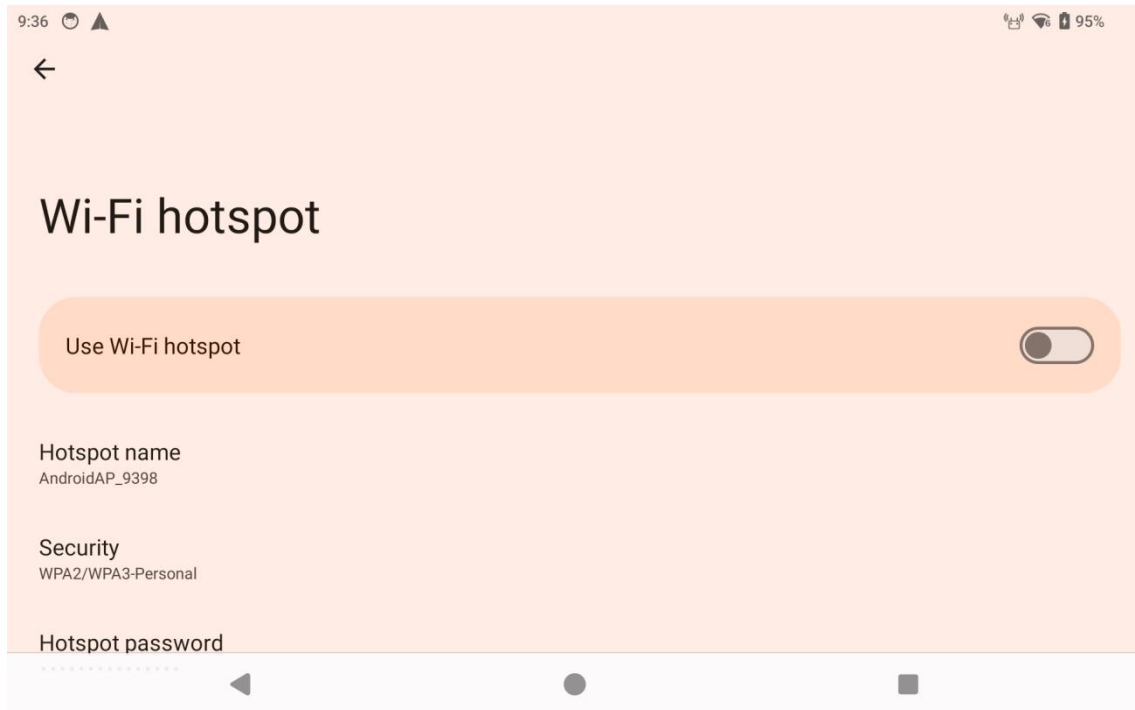
11. Using Hotspot to Share Data Link and Image Transmission

Note: This tutorial uses an open-source flight controller as an example. For third-party flight controllers, please consult the flight controller technical support to confirm compatibility with this connection method.

Steps to enable the remote controller's hotspot:

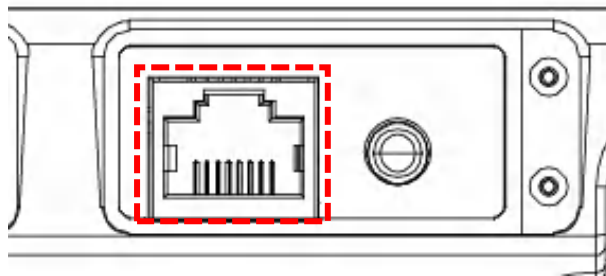
(1) Method 1:

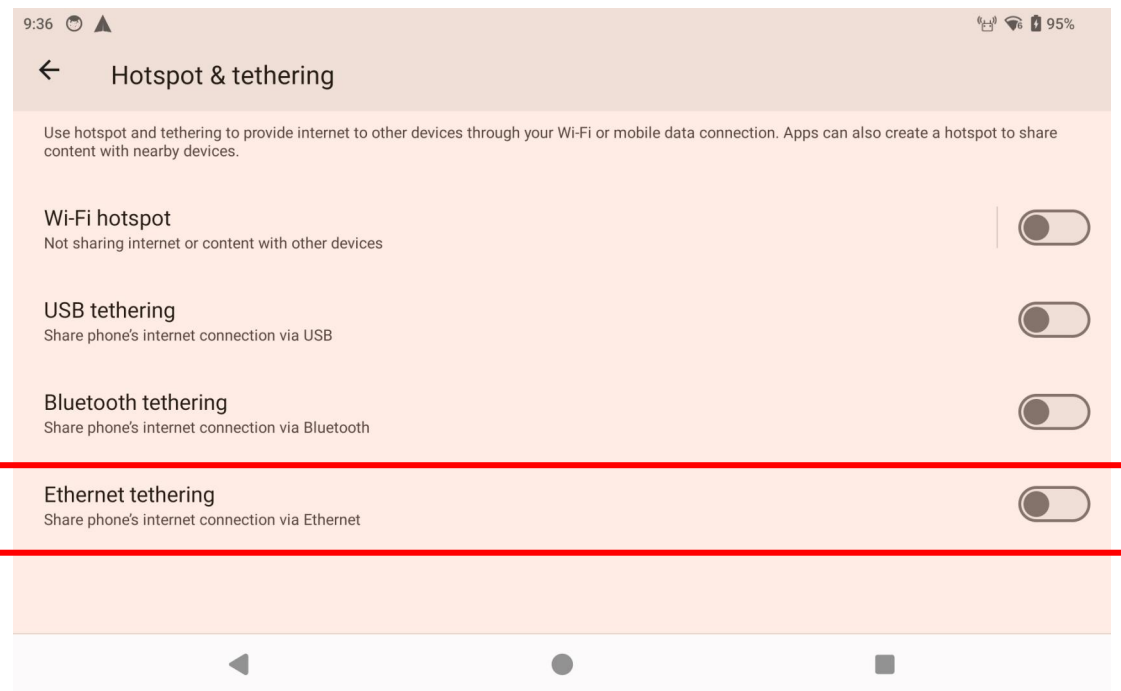
Open Settings -> Network & Internet -> Hotspot & Tethering -> WLAN Hotspot -> Enable "Use Wi-Fi Hotspot", then connect your computer to the remote controller's hotspot.



(2) Method 2:

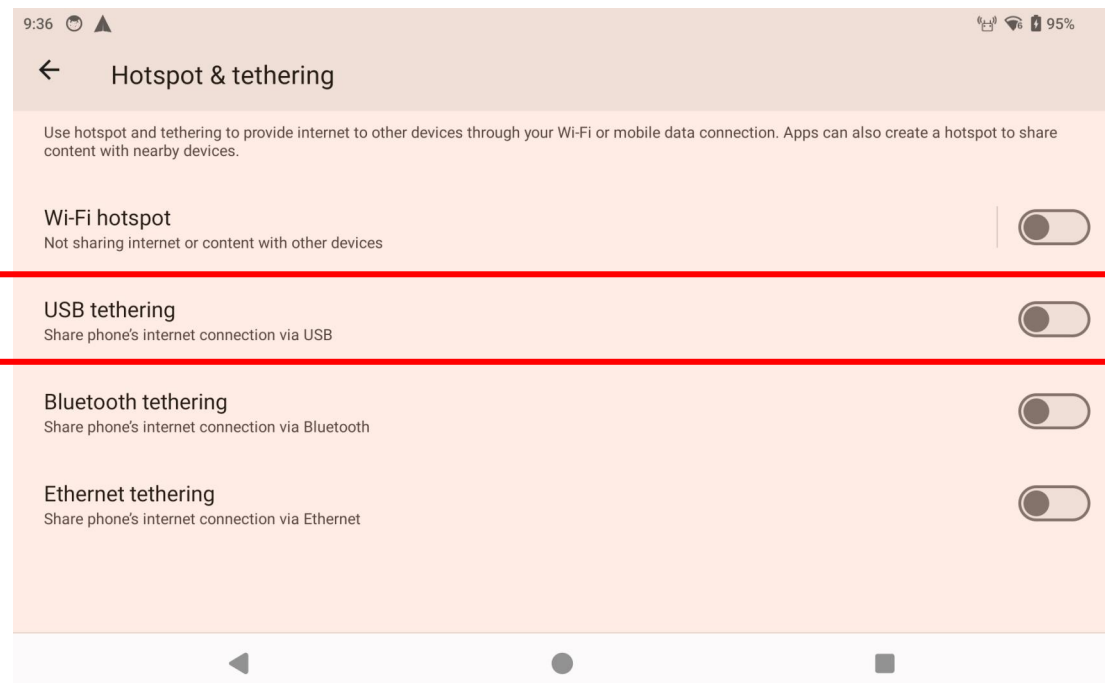
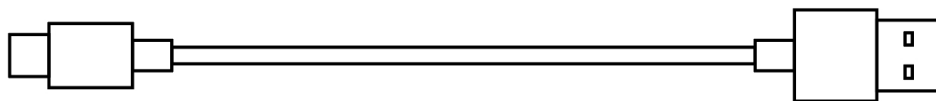
Connect the computer's Ethernet port to the remote controller's RJ45 Ethernet port using an Ethernet cable. Then open Settings -> Network & Internet -> Hotspot & Tethering -> Enable "Ethernet Tethering".





(3) Method 3:

Connect the computer's TYPE-A port to the remote controller's TYPE-C port using an A-to-C data cable. Then open Settings -> Network & Internet -> Hotspot & Tethering -> Enable "USB Tethering".

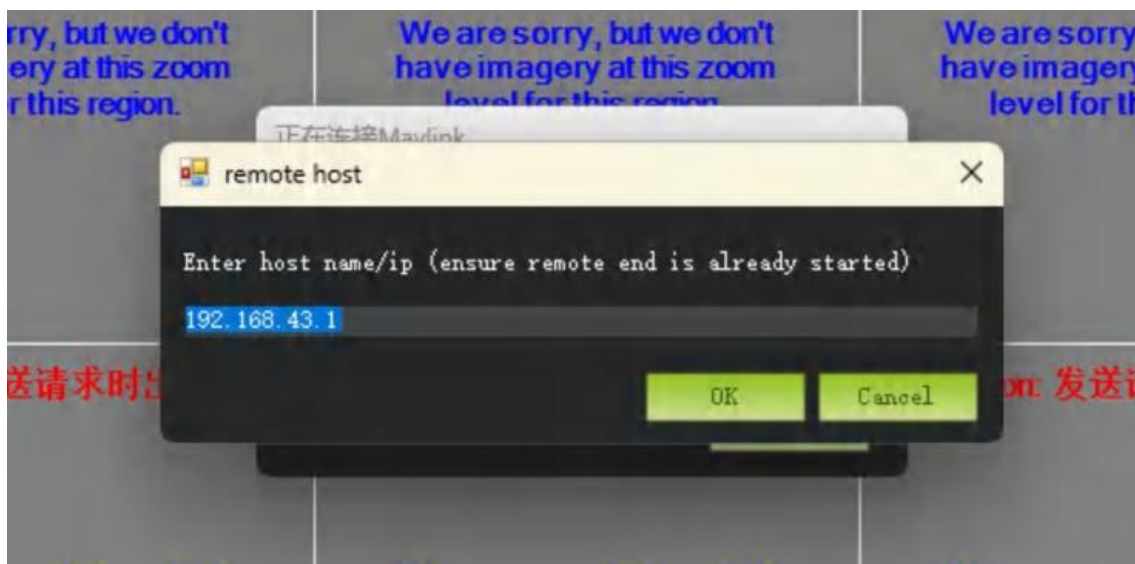


12.1 Sharing Data Link

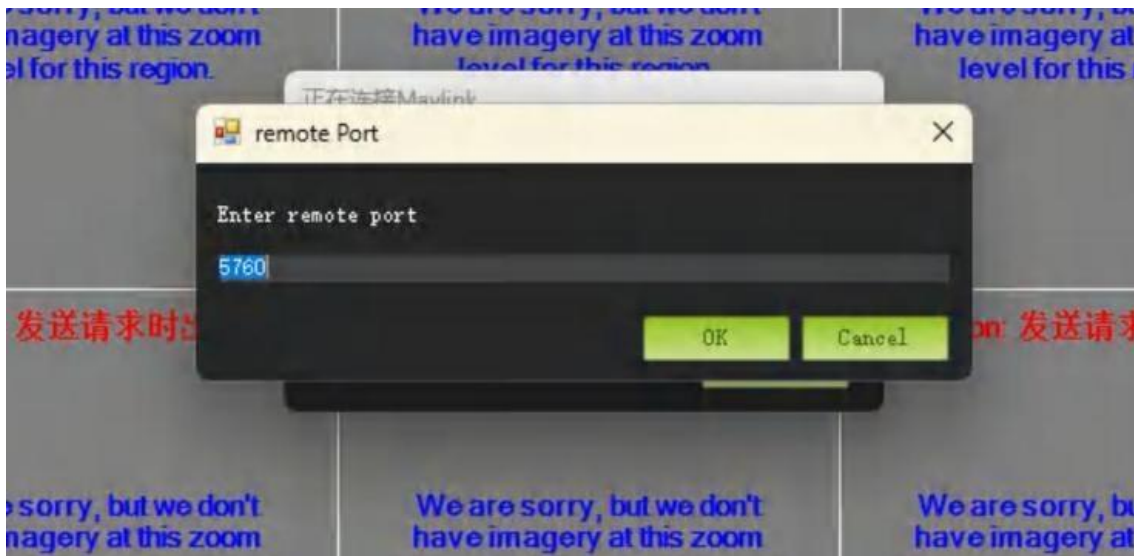
After successfully connecting via one of the three methods mentioned above, open Mission Planner and select TCP as the connection method.



After clicking "Connect", enter the IP address 192.168.43.1, then click "OK" once the input is complete.



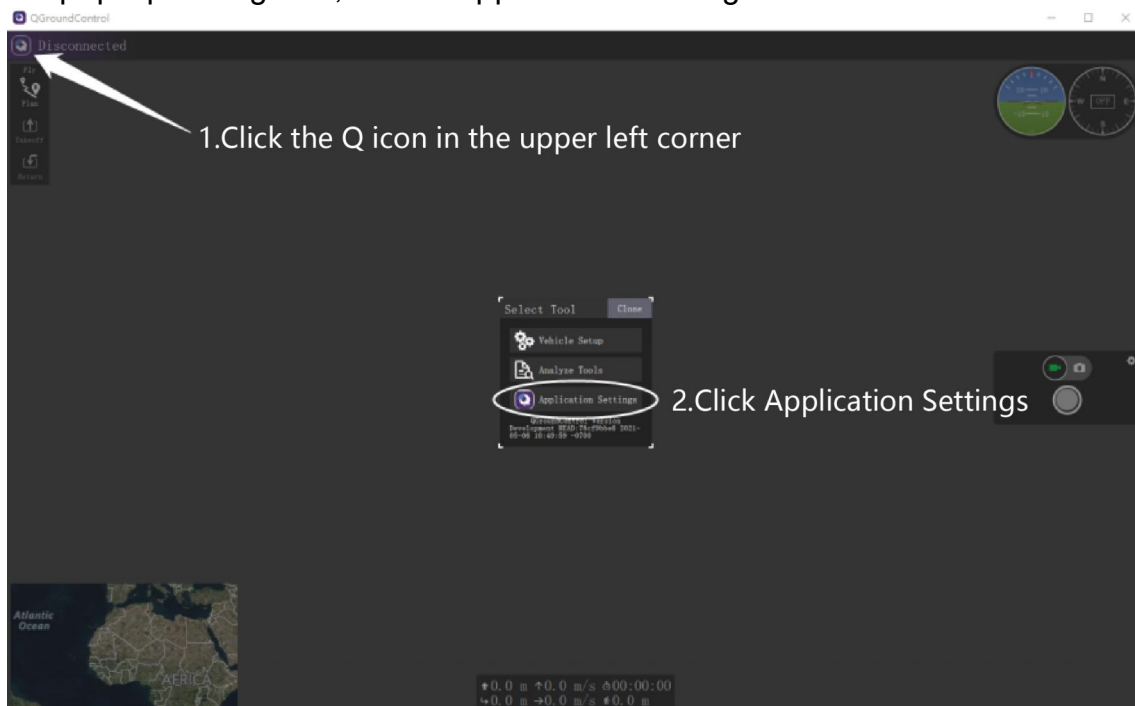
Enter the port number 5760 and click "OK" to connect to the data link.



Sharing Data Link: Connecting Data Link via QGC

Open the QGC software:

1. Click the Q icon in the upper left corner.
2. In the pop-up dialog box, select Application Settings.



4.Select Comm Links.

5.Click Add.

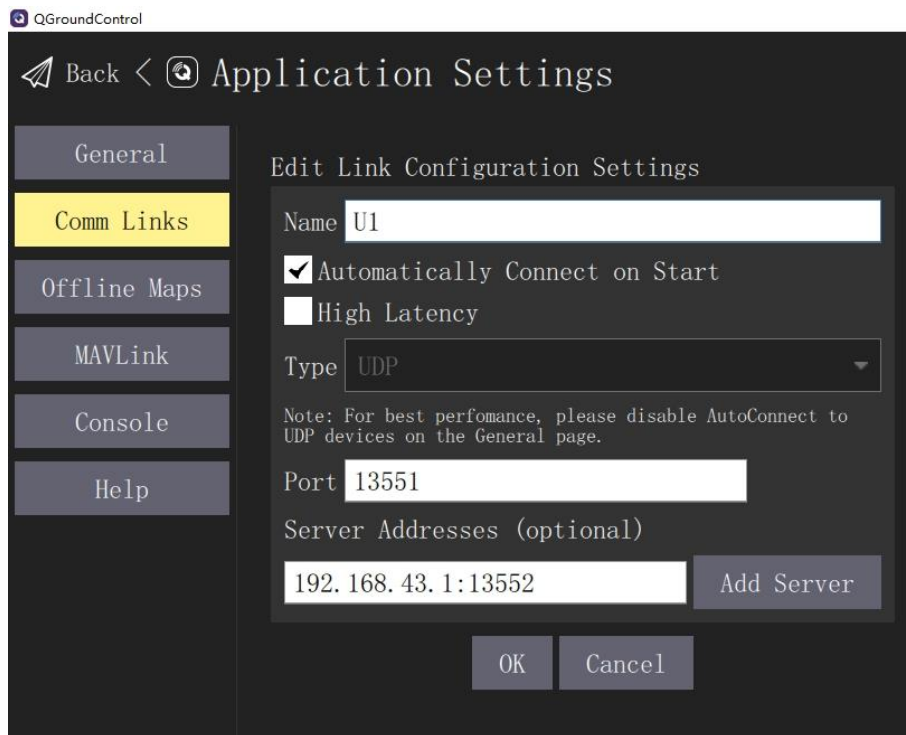
(1) Serial Port 0 TCP connection method: TCP 192.168.43.1 5760

The screenshot shows the 'Application Settings' dialog in QGroundControl. The 'Comm Links' tab is selected. The 'Create New Link Configuration' section is active. The 'Name' field is set to 'TCP'. The 'Automatically Connect on Start' checkbox is checked. The 'High Latency' checkbox is unchecked. The 'Type' dropdown is set to 'TCP'. The 'Server Address' field is set to '192.168.43.1'. The 'Port' field is set to '5760'. The 'OK' and 'Cancel' buttons are at the bottom.

(2) Serial Port 0 UDP connection method: UDP 14551 192.168.43.1:14552

The screenshot shows the 'Application Settings' dialog in QGroundControl. The 'Comm Links' tab is selected. The 'Edit Link Configuration Settings' section is active. The 'Name' field is set to 'U0'. The 'Automatically Connect on Start' checkbox is checked. The 'High Latency' checkbox is unchecked. The 'Type' dropdown is set to 'UDP'. A note states: 'Note: For best performance, please disable AutoConnect to UDP devices on the General page.' The 'Port' field is set to '14551'. The 'Server Addresses (optional)' field is set to '192.168.43.1:14552'. An 'Add Server' button is next to the address field. The 'OK' and 'Cancel' buttons are at the bottom.

(3) Serial Port 1 UDP connection method: UDP 13551 192.168.43.1:13552



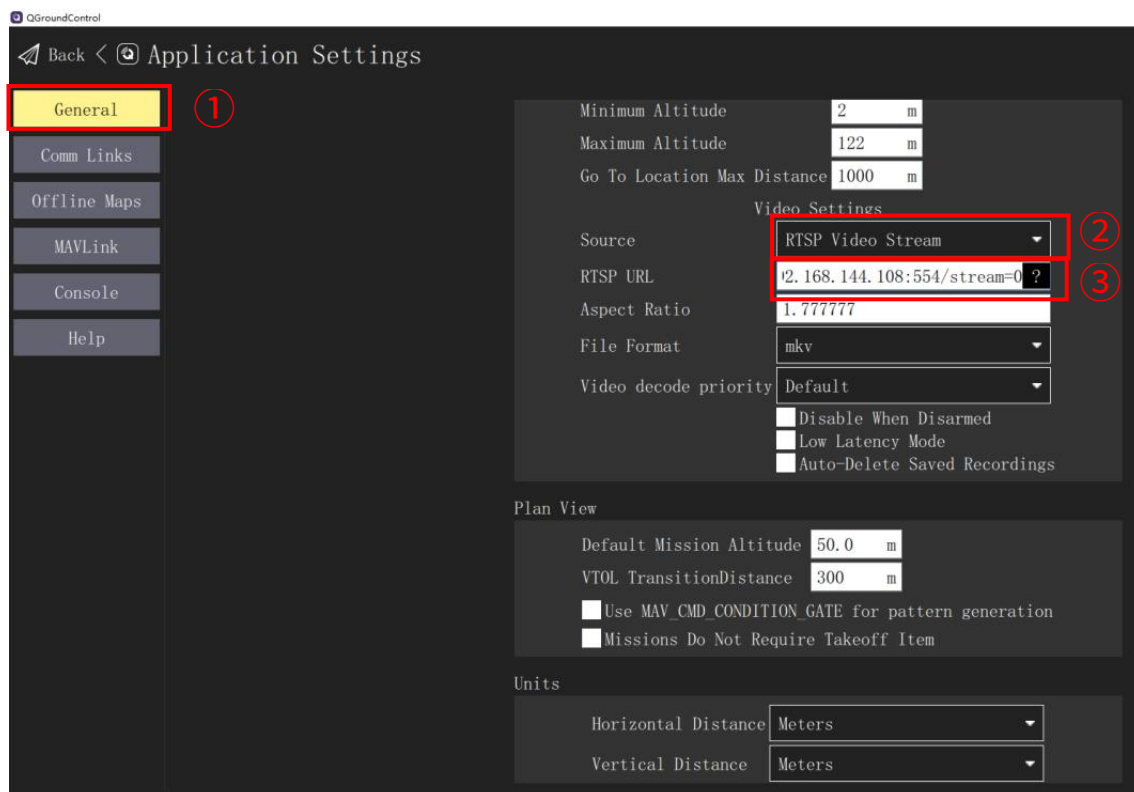
12.2 Sharing Image Transmission

After successfully connecting via one of the three methods mentioned above, launch the VLC player on your computer. In the Media menu, select "Open Network Stream", then enter the camera's stream address as shown in the figure below to realize image transmission sharing.



Displaying Shared Image Transmission via QGC

Simply enter the camera's RTSP stream-pulling address in the settings as follows.



Note: When using a third-party camera, you need to set the camera's gateway to 192.168.144.11 to share the image transmission. Only one side (either the remote controller or the computer) should pull the stream—pulling the stream simultaneously from both sides will cause bandwidth congestion and result in image transmission lag.

12. Parameters

G30 Remote Controller Parameters			
Display Screen	10.1-inch high-brightness screen	Resolution	1920*1200
Processor	Qualcomm 6nm processor	Operating System	Android 14
Dimensions	346×196.5×89.4mm	Weight	1.5kg
Battery Capacity	20000mAh	Battery Life	6~8 hours
RAM	8G	System Storage Memory	128G
Operating Frequency Band	2.4G/5.8G	Channels	16
Dynamic Frequency Modulation	Automatic frequency hopping	RF Power	23dBm@CE/FCC
Remote Control Range	9km	Operating Temperature	-10℃~55℃
Charging Port	TYPE-C	External Interfaces	USB-A port, SIM card slot, TYPE-C port, RJ45 port

GR03 Receiver Parameters			
Operating Frequency Band	2.4G/5.8G	Serial Port Baud Rate	57600/115200/921600
Supply Voltage	7.2~72V(XT30)	Operating Current	12V/500mA
Data Link Ports	2 ports	Air Interface Rate	Default Uplink: 200 kbps (Upload mode: ≤ 17.7 Mbps) Downlink: 15 Mbps (Download mode: ≤ 30 Mbps) Note: Enabling the upload/download mode of the assistant will affect communication distance. It is recommended for short- range use only.
Ethernet Ports	2 ports	Dimensions	82×58.7×20mm
SBUS Output	1 channel	Weight	120g
PWM Interfaces	3 interfaces	Operating Temperature	-10℃~60℃
Audio Output	1 output port		
RF Power	23dBm@CE/FCC	Channel Bandwidth	1.25MHz/2.5MHz/5MHz/ 10MHz/20MHz/40MHz

13. Related Software Downloads

Skydroid FLY Download: <http://file.skydroid.xin/SkydroidFly.apk>

Gimbal FPV App Download Link: <http://file.skydroid.xin/SkydroidCameraFPV.apk>

RCSDK (for data link communication; interfaces for remote control, gimbal, and camera): Applicable to H12, H12Pro, H16, H16Pro, H20, H30, G30, G20, Triple-Body Camera (Serial Port Version), Triple-Body Camera (Ethernet Port Version), Serial Port 2-Axis Gimbal, C10, C20, C10Pro, C12, Electronic Gimbal C01. <https://gitee.com/skydroid/rcsdk-demo>

FPV Player (supports Ethernet-port image transmission/serial-port image transmission): <https://gitee.com/skydroid/fpv-player-demo>

DEMO: <https://gitee.com/skydroid/SkydroidDemo>

V. Maintenance and Warranty

Maintenance for Long-Term Storage:

Store the remote control in a dry and well-ventilated place, and minimize direct sunlight exposure to prevent the battery from overheating. If the remote control needs to be stored for more than three months, the recommended storage temperature range is 22°C to 28°C. Never store the battery in an environment where the temperature is below -20°C or above 45°C.

VI. Transportation and Storage

Warning

To avoid potential injury and damage, please strictly comply with the following items: Keep children away from the remote control components, as wires and small parts may pose a hazard to children.

Caution

Do not immerse the remote control in water. If it gets wet, wipe it promptly with a soft, dry cloth and turn off the power immediately.

Do not subject the battery to mechanical impact, crushing, or piercing; do not drop the battery.

For any updates to this manual, no separate notice will be given.

Please continue to pay attention to the official website:

<https://skydroidglobal.com/>

Appendix 1

Solutions for video-transmission freeze issues caused by operation of UGVs, USVs, heavy-payload and other equipment:

When video-transmission devices are used on large-size UGVs, USVs , an occasional phenomenon occurs: the video works normally when the machine is not started; once the machine motor starts (drives load), the video stream freezes instantly. Isolation treatment shall be performed for the video camera, receiver and equipment.

1. Separate metal parts of the receiver feeder cable from the metal housing of the equipment. Keep the receiver feeder cable and camera video-transmission cable away from power cables.
2. Install ferrite cores on the receiver power cable and camera power cable. Wind as many turns as possible around the ferrite core to ensure noise-suppression performance. Winding only one turn or no winding will produce no effect. (The core principle of ferrite-core winding: adjust the impedance characteristic of the ferrite core by winding turns, and suppress high-frequency noise via electromagnetic induction.)



3. Relocate the receiver installation position to avoid interference.
4. Use independent power supply for the receiver.

If the above methods do not work:

5. Add isolated power supplies for the receiver and camera respectively. Note: Isolated power supplies must not share ground potential; shared ground will eliminate isolation performance. The advantage of an isolated power supply is to isolate ground-line disturbances generated by motors.

Link:

<https://e.tb.cn/h.SvaqBlbBZMad0Ez?tk=W4PnflVti99>

Select the voltage option matching the vehicle power-supply voltage. (e.g. select 48 for a 48 V power supply). It is recommended to choose the specification with rated current of 5 A.



EVEPS®
一易普思

型号:SY2D60K4812

规格: 36V48V 转 12V5A
尺寸: 74×74×32mm
净重: 270g

图集 参数

文详情 本店推荐 看了又看

12V5A隔离大铝Y2

12V8A隔离大铝Y2

EVEPS隔离电源24v36v48v80v100v转12v直流升压稳压转换器降压模块

可开发票

券后¥110.64 优惠券¥118 惊喜礼金 已领1000+ 即时专享

VS 店铺新客礼金限享一次 即时可用 店铺新客立减5元 淘金币可抵1.00元起

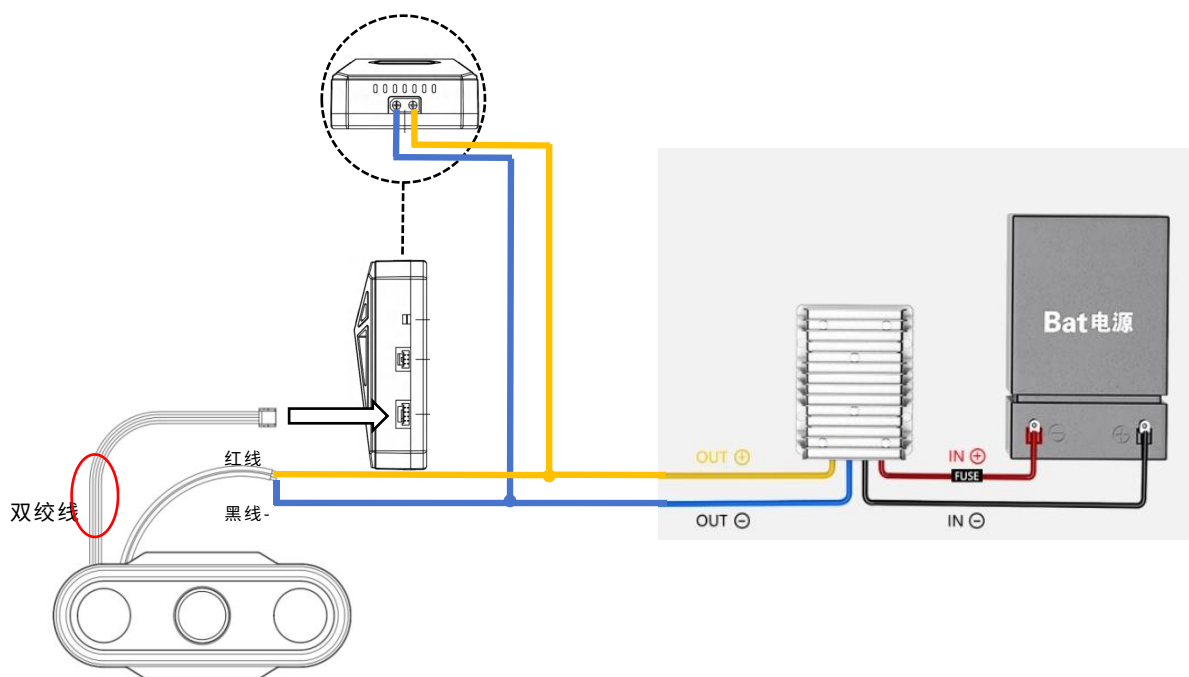
预计4小时内发货 | 承诺48小时内发货 | 快递: 免运费 | 广东东莞 至 泉州市 丰泽区

退货宝 | 假一赔四 | 极速退款 | 7天无理由退换

信用卡支付

颜色分类

9-36V转12V1A隔离大型J3	9-36V转12V2A隔离大型J3
9-36V转12V3A隔离大型J3	9-36V转12V5A隔离大铝Y2
9-36V转12V8A隔离大铝Y2	9-36V转12V10A隔离大铝Y2
48V(30-60V)转12V5A隔离大铝Y2	48V(30-60V)转12V8A隔离大铝Y2
48V(30-60V)转12V10A隔离大铝Y2	80V (50-100V)转12V5A隔离大铝Y2
80V (50-100V)转12V8A隔离大铝Y2	80V (50-100V)转12V10A隔离大铝Y2
100V (75-150V)转12V5A隔离大铝Y2	100V (75-150V)转12V8A隔离大铝Y2
100V (75-150V)转12V10A隔离大铝Y2	9-36V转12V15A隔离加大铝Y3
48V (30-60V)转12V15A隔离加大铝Y3	80V (50-100V)转12V15A隔离加大铝Y3
100V(75-150V)转12V15A隔离加大铝Y3	48V(30-60V)转12V20A隔离加大铝Y4
48V(30-60V)转12V30A隔离加大铝Y4	80V(50-100V)转12V20A隔离加大铝Y4
80V(50-100V)转12V30A隔离加大铝Y4	100V(75-150V)转12V20A隔离加大铝Y4
100V(75-150V)转12V30A隔离加大铝Y4	

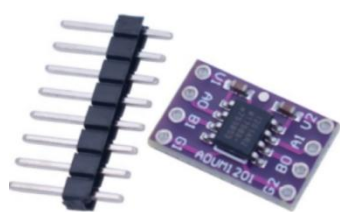


Add an isolator to the power supply. See the wiring diagram above.

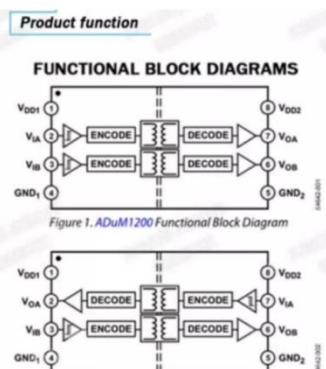
6.SBUS Isolation

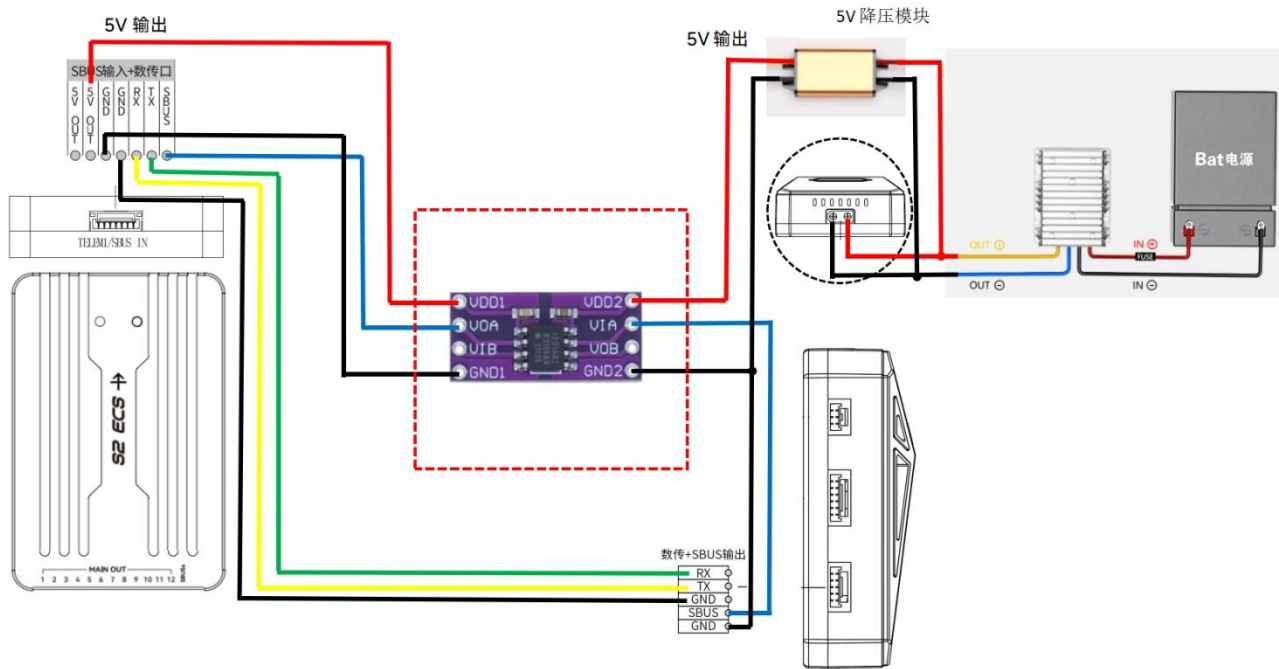
This module can be used for SBUS signal isolation. Use separate small-battery power supply for the receiver and camera. (Note: Both VDD1 and VDD2 must be powered simultaneously. An additional step-down module needs to be purchased separately, with output voltage of 3.3-5 V. It is recommended to use 3.3 V power supply on both sides for the isolation module.)

Link: <https://e.tb.cn/h.SF7iEbc40yA5M3v?tk=5DDPfI4M22x HU287> 「ADUM1201 Dual-channel Serial Digital Isolator Module, Magnetic-isolation / SPI / CAN Bus Transceiver Signal Module」



ADUM1201 短款





Power the receiver and camera with separate small batteries together with power isolators. Connect this isolator in series on the SBUS transmission cable between the receiver and flight controller.

Note: All links in this document are references from customers' past purchases, for reference only.