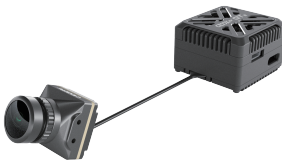
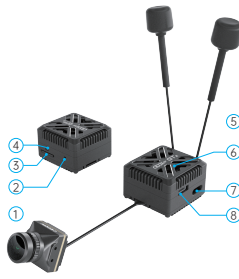
Avatar GT2 Kit

快速入门指南

V1.1



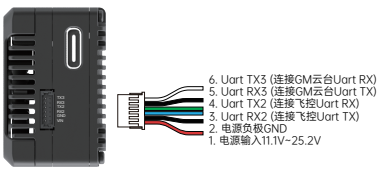
■ 简介



1. 相机
2. LED指示灯
3. Micro SD 卡槽
4. 对频按键
5. 天线
6. 风扇
7. USB-C接口
8. 电源端口

*此产品为可见光摄像头

■ 接线



⚠
- 功耗参考: 12V@1.3A，接线时请考虑电源供电能力
- 产品工作时发热量大，请注意气流散热

■ 对频

1. 连接 Avatar GT2 和 Avatar 地面端电源。
2. 分别短按 Avatar GT2 和 Avatar 地面端对频按钮，Avatar GT2 进入配对状态后VTX LED 变为红灯常亮，地面端蜂鸣器为 DI...DI...DI...
3. 连接成功后，VTX LED 指示灯呈绿色常亮，地面端蜂鸣声停止并显示图像。

■ 升级

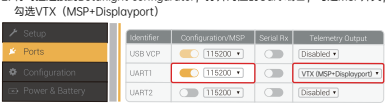
请到官网下载最新升级固件，Avatar_Sky_X.X.X.img 对应 Avatar GT2 升级固件，注意请勿修改文件名。

1. 将升级文件拷贝到 Avatar GT2 的 Micro SD 卡根目录下，连接电源等待设备开机（如果有旧固件文件请删除）。
2. 长按 Avatar GT 对频按键8秒，等指示灯熄灭后松开按键，Avatar GT2 自动重启进入升级状态，指示灯从红色闪烁变为红色常亮然后再熄灭。升级时间大约为20秒，升级过程中请勿断电！（如 Avatar GT2 持续常亮红灯，表示检测不到固件或固件错误，请检查固件文件）
3. 升级成功后，Avatar GT2 指示灯变为绿色闪烁。

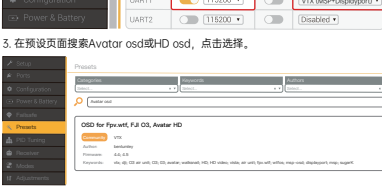
■ 飞控OSD

UART 功能可以使图传与飞控进行通信，获取飞控 OSD 等信息。以 Betaflight Configurator 为例介绍 UART 设置方法。

1. 将 6Pin 电源线的蓝绿线焊接到飞控 Uart 串口（参考连接页面），这里以 Uart1 串口为例。
2. 将飞控连接到Betaflight-configurator，打开对应的Uart 端口，勾选MSP开关，勾选VTX（MSP+Displayport）

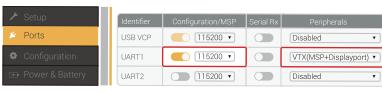


3. 在预设页面搜索Avatar osd或HD osd，点击选择。



4. 在OSD页面设置你需要的信息。

■ Betaflight 4.5 或以上版本设置:



1.打开对应的 UART 接口，勾选 MSP 开关，勾选 VTX (MSP+Displayport)。



2.打开 CLI 命令行，输入红色字体内容，
"set osd_displayport_device = MSP"
"set vcd_video_system = HD"
"save"

■ 状态指示

VTX 指示灯状态	
对频状态	红灯常亮
升级固件	红灯快速闪烁
无线连接，图像输出正常	绿灯常亮
无线未连接	绿灯快速闪烁
无线连接正常，图像异常	绿灯慢闪

■ 注意事项

1. 通电前请安装好所有天线，避免元器件损坏。
2. 待机模式开启时功率受限 10mW，起飞前需解锁飞控或关闭待机模式。
3. 如果您同时与其他 5.8GHz 设备一起使用，请选择不同频道。

■ 参数

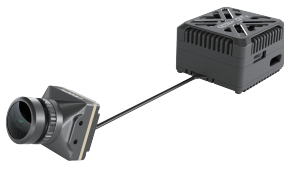
名称	Avatar GT2
通信频率	5.725-5.850 GHz
发射功率 (EIRP)	FCC: <30dBm; CE: <14dBm; SRRC: <20dBm; MIC: <25dBm
接口	JST1.0*6(电源线); Micro SD 卡槽; Type-C(usb)
安装孔距	25.5*25.5mm; 20*20mm
外形尺寸	图传: 36*34*23mm; 相机: 19*19*24mm
SD 卡槽	支持 256G
图像分辨率	1080p/720p
重量	52g（不含天线）
工作环境温度	-10~40℃
频点数量	3
宽电源输入	11.1V-25.2V
支持飞控系统	Betaflight; Inav; Fettec; Kiss; ArduPilot
OSD	Canvas mode
端到端延时	平均延时 22ms
天线接口	MMCX
天线极化方向	左旋圆极化 LHCP
相机名称	Avatar Pro
图像传感器	1/1.8-Inch Sony Starvis II Sensor
同轴线	140mm
控制能力	一机一控
接收距离	6KM

CADDXFPV 技术支持
email: support@caddxfpv.com
此内容可能会修改,从以下位置下载最新版本
https://www.caddxfpv.com

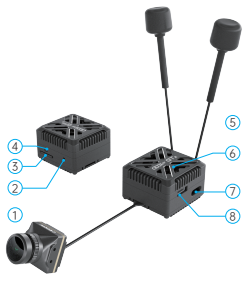
Avatar GT2 Kit

QUICK START GUIDE

V1.1



■ Introduction



1. Camera
2. LED Indicator Light
3. Micro SD Card Slot
4. Link Button
5. Antenna
6. Fan
7. USB-C Port
8. Power Port

*This product is a visible light camera.

■ Connection



⚠
- Power consumption: 12V@1.3A
  Please consider the power supply capability of the power supply.
- VTX generates a lot of heat when working, so please pay attention toairflow for heat dissipation.

■ Linking

1. Connect the power supply to both the Avatar GT2 and the Avatar Goggles.
2. Press the pairing button on both the Avatar GT2 and the Avatar Goggles briefly. Once the Avatar GT2 enters pairing mode, the VTX LED remains solid red, and the ground unit buzzer emits a repeating DI... DI... DI... sound.
3. After a successful connection, the VTX LED remains solid green, the ground unit buzzer stops, and the video feed is displayed on the screen.

■ Upgrade

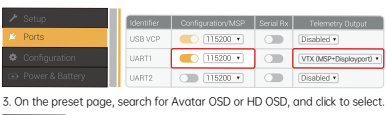
Please download the latest firmware from the official website. The file Avatar_Sky_X.X.X.img corresponds to the Avatar GT2 firmware upgrade. Do not rename the file.

1. Copy the upgrade file to the root directory of the Avatar GT2 Micro SD card, then connect the power and wait for the device to start up.
   (If an old firmware file exists, please delete it first.)
2. Press and hold the pairing button on the Avatar GT2 for 8s, then release it after the indicator light turns off. The Avatar GT2 will automatically restart and enter the upgrade mode. The indicator light will flash red, then turn solid red, and finally turn off. The upgrade process takes about 20s, do not disconnect the power during the upgrade!
   (If the Avatar GT2 remains solid red, it means the firmware cannot be detected or is incorrect. Please check the firmware file.)

■ FC OSD

The UART function allows the VTX system to communicate with the FC, enabling access to flight controller OSD and related information. The following example demonstrates how to configure UART settings using Betaflight Configurator.

1. Solder the blue and green wires of the 6pin power cable to the FC UART port (see the connection page), using UART1 as an example.
2. Connect the FC to Betaflight Configurator, open the corresponding UART port, and enable the MSP switch as well as the VTX (MSP + DisplayPort) option.

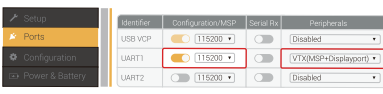


3. On the preset page, search for Avatar OSD or HD OSD, and click to select.



4. On the OSD page, configure the information you need.

■ Betaflight 4.5 or above version Settings



1. Open the corresponding UART port, enable the MSP switch, and check VTX (MSP + DisplayPort).



2. Open the CLI command line and enter the commands shown in red.
"set osd_displayport_device = MSP"
"set vcd_video_system = HD"
"save"

■ Status indication

VTX Indicator Status	
Pairing Status	Solid Red
Firmware Upgrade	Red Fast Flashing
Wireless Connected, Video Output Normal	Solid Green
Wireless Not Connected	Green Fast Flashing
Wireless Connected, Video Abnormal	Green Slow Flashing

■ Precautions

1. Install all antennas before powering on to prevent damage to components.
2. In standby mode, the output power is limited to 10 mW. Unlock the FC or disable standby mode before takeoff.
3. If using other 5.8GHz devices simultaneously, please select different channels.

■ Specification

Name	Avatar GT2
Communication Frequency	5.725-5.850 GHz
Transmission Power (EIRP)	FCC: <30dBm; CE: <14dBm; SRRC: <20dBm; MIC: <25dBm
I/O Interface	JST1.0*6(Power Cable); Micro Card Slot; Type-C(usb)
Mounting Hole	25.5*25.5mm; 20*20mm
Dimensions	VTX: 36*34*23mm; Camera: 19*19*24mm
SD Card Slot	Support 256G
Image Resolution	1080p/720p
Weight	52g (Antenna Not Included)
Operating Temperature	-10~40℃
Channels	3
Power Input	11.1V-25.2V
Supported FC	Betaflight; Inav; Fettec; Kiss; ArduPilot
OSD	Canvas mode
Latency	Average Latency 22ms
Antenna Connector	MMCX
Antenna Polarization	LHCP
Camera Name	Avatar pro
Sensor	1/1.8-Inch Sony Starvis II Sensor
Coaxial Cable	140mm
Control Mode	One aircraft, one controller
Reception Distance	6KM

CADDXFPV Technical Support
email: support@caddxfpv.com

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