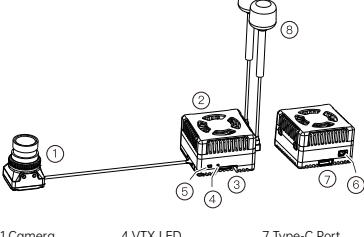


Ascent GT PRO Industry

Quick Start Guide

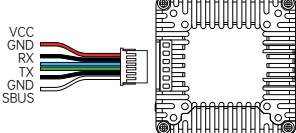
V1.0

Introduction



- 1.Camera
- 2.Fan
- 3.Power Port
- 4.VTX LED
- 5.Link Button
- 6.Gimbal Port
- 7.Type-C Port
- 8.Antenna

Connection



- Power Consumption Reference: 12V @ 1.5A. Please consider the power supply capacity when wiring.
- The product generates significant heat during operation. Ensure proper airflow for cooling.

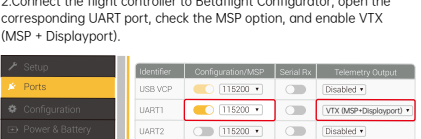
Linking

- 1.Connect the Ascent GT PRO and the Ascent ground unit.
- 2.Short-press the frequency pairing button on both the Ascent GT PRO and the Ascent ground unit. When the Ascent GT PRO enters pairing mode, the VTX LED will light solid red, and the goggles will emit a beep pattern: DI...DI...DI...
- 3.Once the connection is successful, the VTX LED will turn solid green, the beeping from the goggles will stop, and the video image will be displayed.

FC OSD

By connecting the VTX serial port to the flight controller, you can access the flight controller's OSD information. Using Betaflight Configurator 10.10.0 with firmware version 4.5.0 as an example, the serial port configuration method is described below.

- 1.Solder the blue and green wires from the 6-pin power cable to the UART1 port on the flight controller (refer to the connection page). Here, UART1 is taken as an example.
- 2.Connect the flight controller to Betaflight Configurator, open the corresponding UART port, check the MSP option, and enable VTX (MSP + Displayport).



- 3.On the Presets page, search for Ascent OSD and click to select it.

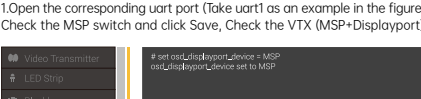


- 4.On the OSD page, configure the information you want to display.

Betaflight 4.4 or above version settings:



- 1.Open the corresponding uart port (Take uart1 as an example in the figure Check the MSP switch and click Save, Check the VTX (MSP+Displayport).



2. Open the CLI command line and enter the content in red font, "set osd_displayport_device = MSP" "set vcd_video_system = HD" "save"

Status indication

Goggles Buzzer Status	
Link state	DI.....DI....DI...
upgrade firmware	DI.....DI..... DI---
Upgrade failed	DI..DI..DI..
VTX Indicator Status	
Link state	Steady red light
upgrade frmware	Red light rapidly flashes
Wireless connection, image output is normal	Steady green light
Wireless not connected	green light rapidly flashes
Wireless connection is normal, image is abnormal	green light slowly flashes

Precautions

1. Before powering on, please install all antennas to avoid damage to components.
2. When the standby mode is turned on, the power is limited to 10mW. Before taking off, you need to unlock the flight control or turn off the standby mode.
3. If you use it with other 5.8GHz devices at the same time, please choose a different channel.
4. If you use the Gyroflow function of the camera, please provide shock absorption for the fxed deck of the camera to avoid the failure of the anti-shake.

VTX Specification

Name	Ascent GT PRO VTX Industry
Communication Frequency	4.9GHz~6.4GHz
Communication Bandwidth	2.5/5/10/20/40MHz
Transmitter Power (EIRP)	5.8 GHz≤36dBm; FCC<30dBm; CE<14dBm; SRRC<20dBm; Mic<25dBm
I/O Interface	SH1.0-6P,TYPE-C, Gimbal Port SH1.0-2P
Image Quality	1080P 60FPS
Auto Frequency	Support
Manual Frequency	Support
Channels	42
Wide Power Input	11.1V-25.2V
Mounting Holes	20*20mm; 25.5*25.5mm
Dimensions	34*34*22.6mm
Operating Temperature	-10℃~40℃
Supports FC System	BetaFlight / INAV / Ardupilot
Supports FPV Goggles and Remote Controller	Goggles Ascent / Goggles Cine
OSD	Canvas mode
Latency	Average delay 35ms
Antenna	2 (MMCX)

Camera Specification

Name	AVATAR Pro V2 Camera
Image Sensor	1/1.8-Inch Sensor
Resolution	1080P/60fps; 720P/60fps
Ratio	16/9
Lens	5Mp
FOV	147°
Aperture	F1.0
Shutter	Rolling Shutter
Weight	9.5g
Dimensions	19*19*24mm
Minimum Illumination	0.00001Lux
Coaxial Cable	140mm

CADDXFPV Support
email: support@caddxfpv.com

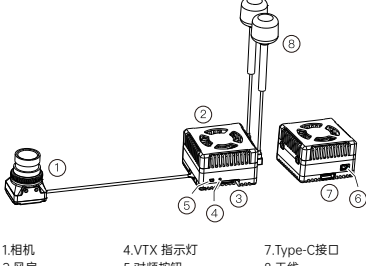
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<https://www.caddxfpv.com>

Ascent GT PRO 行业版

快速入门指南

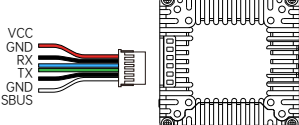
V1.0

简介



- 1.相机
- 2.风扇
- 3.电源端口
- 4.VTX 指示灯
- 5.对频按钮
- 6.云台连接端口
- 7.Type-C接口
- 8.天线

接线



- ⚠ 功耗参考: 12V@1.5A, 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 Ascent GT PRO 和Ascent 地面端
2. 分别短按 Ascent GT PRO 和Ascent 地面端对频按钮, Ascent GT PRO进入配对状态后VTX LED 变为红灯常亮, 眼镜端蜂鸣器为 DI...DI...DI...
- 3.连接成功后, VTXLED 指示灯呈绿色常亮, 眼镜端蜂鸣声停止并显示图像。

飞控OSD

将图传串口连接到飞控, 可以获取飞控OSD信息, 以Betaflight-configurator 10.10.0与固件4.5.0为例介绍串口设置方法。

- 1.将 6pin 电源线蓝线和绿线焊接到飞控 Uart 1端口 (参考连接页面), 这里以 Uart 1 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)

Setup	Identifier	Configuration/MSP	Serial Rx	Telemetry Output
Ports	USB VCP	☒ 115200	☐	Disabled
Configuration	UART1	☒ 115200	☐	VTX (MSP+Displayport)
Power & Battery	UART2	☐ 115200	☐	Disabled

- 3.在预设页面搜索Ascent osd, 点击选择。



- 4.在OSD页面设置你需要的信息。

Betaflight 4.4 或以上版本设置：

Setup	Identifier	Configuration/MSP	Serial Rx	Peripherals
Ports	USB VCP	☒ 115200	☐	Disabled
Configuration	UART1	☒ 115200	☐	VTX(MSP+Displayport)
Power & Battery	UART2	☐ 115200	☐	Disabled

- 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

眼镜端蜂鸣器状态	
对频状态	滴...滴...滴...
升级固件	滴...滴滴... 滴——
升级失败	滴...滴...滴..
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。
- 4.如果您使用相机陀螺仪功能, 请给相机固定平台做减震, 避免防抖失效。

VTX 规格

名称	Ascent GT PRO VTX 行业版
通信频率	4.9GHz~6.4GHz
通信宽带	2.5/5/10/20/40MHz
发射功率(EIRP)	5.8 GHz ≤ 36dBm; FCC<30dBm; CE<14dBm; SRRC<20dBm; Mic<25dBm
接口	SH1.0-6P,TYPE-C, 云台端口SH1.0-2P
实时图像质量	1080P 60/50FPS
自动调频	支持
手动选频	支持
频点数量	42
宽电源输入	11.1V-25.2V
安装孔间距	20*20mm; 25.5*25.5mm
尺寸	34*34*22.6mm
使用环境温度	-10℃至40℃
支持飞控系统	BetaFlight / INAV / Ardupilot
支持飞行眼镜与遥控器	Goggles Ascent / Goggles Cine
OSD	Canvas mode
端到端延时	平均延时 35ms
天线	2 (MMCX)

相机规格

名称	AVATAR Pro V2 Camera
图像传感器	1/1.8-Inch Sensor
分辨率	1080P/60fps; 720P/60fps
比例	16/9
镜头	5Mp
FOV	147°
光圈	F1.0
快门	卷帘快门
重量	9.5g
外形尺寸	19*19*24mm
最低照度	0.00001Lux
同轴线	140mm

CADDXFPV 技术支持
email: support@caddxfpv.com

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