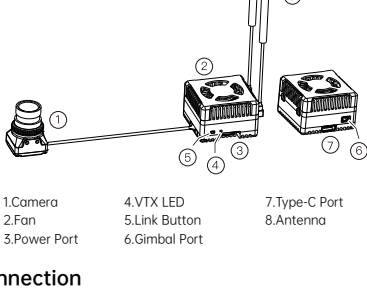


Ascent GT PRO

Quick Start Guide

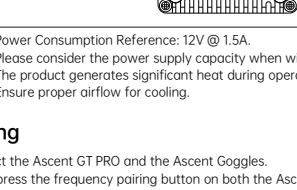
V1.0

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 Goggles.
- 2.Short-press the frequency pairing button on both the Ascent GT PRO and the Ascent Goggles. 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.

When upgrading the Ascent VTX, connect it to your computer using a Type-C USB cable. Then, open the Caddx_PC_Tool on your computer. Once the USB connection is established, follow the on-screen instructions to select the firmware file Ascent_G_Sky_XX_X_XX.img for the upgrade.

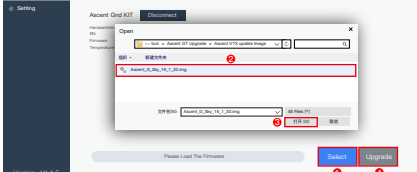
Note:

1. When the Ascent VTX is connected to the computer via Type-C, no external battery power is required — the computer's USB port will supply power to the module.
2. Do not disconnect the USB cable during the upgrade process. Unplug the cable only after the upgrade has completed successfully.

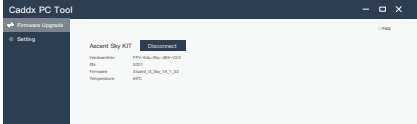
1. Click the Ascent Sky KIT connection option.



2. Click the Select button to open the pop-up window, choose the corresponding firmware version, then click Open to start the upgrade process.



3. Do not restart or power off the device during the upgrade process to avoid upgrade failure.



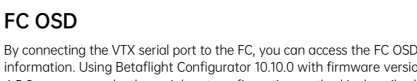
4. Upgrade completed.



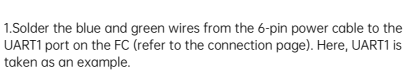
FC OSD

By connecting the VTX serial port to the FC, you can access the FC 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.

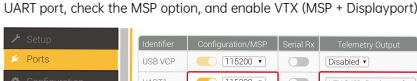
- 1.Solder the blue and green wires from the 6-pin power cable to the UART1 port on the FC (refer to the connection page). Here, UART1 is taken as an example.
- 2.Connect the FC to Betaflight Configurator, open the corresponding UART port, check the MSP option, and enable VTX (MSP + Displayport).



- 3.On the Presets page, search for Avatar OSD or HD 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 7.05mW. Prior to use you need to unlock the FC 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 fixed deck of the camera to avoid the failure of the anti-shake.

VTX Specification

Name	Ascent GT PRO VTX
Communication Frequency	5.740-5.805 GHz
Communication Bandwidth	5 / 20 MHz
Transmitter Power (EIRP)	8.48dBm

I/O Interface	SH1.0-6P,TYPE-C, Gimbal Port SH1.0-2P
Image Quality	1080P 60FPS
Auto Frequency	Support
Manual Frequency	Support
Channels	3
Wide Power Input	11.1V-25.2V
Mounting Holes	20*20mm; 25.5*25.5mm
Dimensions	34*34*22.6mm
Operating Temperature	-10°C~40°C
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 sony starvis II sensor
Resolution	1080P/60fps; 720P/60fps
Ratio	16/9
Lens	8Mp
FOV	147°
Aperture	F1.0
Shutter	Rolling Shutter
Weight	9.5g
Dimensions	19*19*24mm
Minimum Illumination	0.00001Lux
Coaxial Cable	140mm

Video Transmitter	# set osd_displayport_device = MSP osd_displayport_device set to MSP
LED Strip	
Blackbox	
CLI	set vod_video_system = HD

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CADDXFPV Support
email: support@caddxfpv.com
This content is subject to change.Download the latest version from
<https://www.caddxfpv.com>

FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

***RF warning for Mobile device:**
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.