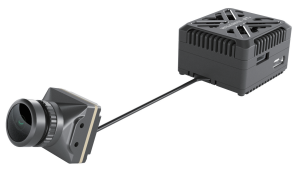
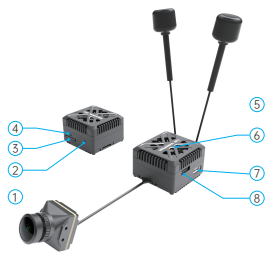
Avatar GT2 Kit

QUICK START GUIDE

V1.1

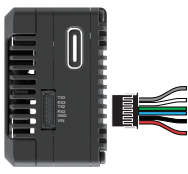


■ Introduction



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

■ 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 the Avatar GT2 and Avatar Goggles.
2. Press the pairing button on both the Avatar GT2 and Avatar Goggles briefly. When the Avatar GT2 enters pairing mode, the LED indicator turns solid red, and the ground unit buzzer beeps DI...DI...DI...
3. Once the connection is successful, the LED indicator turns solid green, the buzzer stops, and the image is displayed.

■ 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.

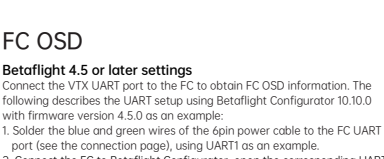
1. Copy the upgrade file to the root directory of the Avatar GT2 Micro SD card, then connect the power and wait for the device to start up.
   (If an old firmware file exists, please delete it first.)
2. Press and hold the pairing button on the Avatar GT2 for 8s, then release it after the indicator light 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

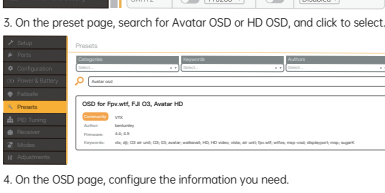
Betaflight 4.5 or later settings

Connect the VTX UART port to the FC to obtain FC OSD information. The following describes the UART setup using Betaflight Configurator 10.10.0 with firmware version 4.5.0 as an example:

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.

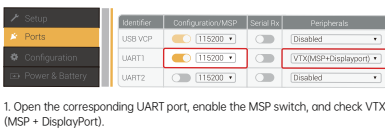


3. On the preset page, search for Avatar OSD or HD OSD, and click to select.

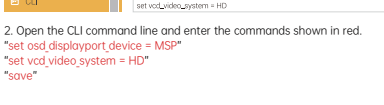


4. On the OSD page, configure the information you need.

■ Betaflight 4.4 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
Model	WN13-3014G
Communication Frequency	5.725-5.850 GHz
Transmission Power (EIRP)	FCC: ≤ 33dBm; 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: 34*36*23.5mm; Camera: 19*19*24mm
SD Card Slot	Support 256G
Image Resolution	1080p/720p
Weight	52g (Antenna Not Included)
Operating Temperature	-10~40℃
Channels	4
Power Input	11.1V-25.2V
Supported FC	Betaflight; Inav; Fettec; Kiss; ArduPilot
OSD	Canvas mode
Latency	Min Latency 22ms
Antenna Connector	MMCX
Antenna Polarization	LHCP
Camera Name	Avatar pro
Sensor	1/1.8-Inch Sony Starvis II Sensor
Coaxial Cable	140mm

CADDXFPV Technical Support
email: support@caddxfpv.com