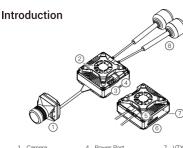
# avatar gt kit

### **QUICKSTART GUIDE**



- 4. Power Port
  5. Link Button
  6 Micro SD Card Slot
- 7、VTX LED 8、Antenna

## Connection



- Power consumption: 12V@1.5A
   Please consider the power supply capability of the power supply.
  - VTX generates a lot of heat when working, so please pay attention to airflow for heat dissipation

### Linking

- Connect the VTX and the power of the goggles.
   Short press the VTX and goggles linking buttons respectively, when the VTX enters the pairing state The VTX LED turns red, and the goggles end is a DL. DL. DL.
   After the link is successful, the indicator light on the VTX LED turns solid green, the beeping sound on the goggles stops and the screen is displayed.

Upgrade

- ease go to the official website to download the upgrade firmware, vatar\_Sky\_X.X.X.img is the VTX file, be careful not to change the file name. Copy the upgrade file to the VTX Micro SD card directory, connect the po supply and wait for the device to start up (if there are old firmware files, please delete them).
- please delete them).

  Press and hold the VTX linking button for 8 seconds, and release the button after the indicator light goes out. At this time, the VTX will automatically restart and enter the upgrade state, and the indicator light will change from blinking red to solid red and then turn off. The upgrade time is about 20 seconds, please do not power off during the upgrade process! (If the VTX continues to light up red, it means that the firmware cannot be detected or the firmware is wrong, please check the firmware file)

e upgrade is successful, the VTX indicator turns green and blinks

\*The Avatar GT TF card slot does not have a rebound function. Please stick the PVC sticker to the TF card before inserting it.

### **UART**

he UART function enables the VTX communicate with the flight controller, llowing the VTX obtain the flight controller information. Take Betaflight configurator as an example to introduce the UART setting method.

Solder the white and gray wires of the 4 pin cable to the flight controller afer to the Connection page).





Identifier Configuration/MSP Serial Rx Telemetry Dutput





# Setup Identifier Configuration/MSP Serial Rx Peripherals



| USB VCP   | 115200 v                              |        | Disabled        | •         |
|-----------|---------------------------------------|--------|-----------------|-----------|
| UART1     | 115200 🔻                              |        | VTX(MSP+Displ   | ayport) 🕶 |
| UART2     | 115200 •                              |        | Disabled        | *         |
| g uart po | ort (Take uart1 as                    | an exa | mple in the fic | aure)     |
|           | ort (Take uart1 as<br>Save, Check the |        |                 |           |

Open the corresponding





3. Open the CLI command "set osd\_displayport\_dev "set vcd\_video\_system = "save"

# atus indication

| Goggles Buzzer Status                            |                             |  |  |  |
|--|-----------------------------|--|--|--|
| Link state                                       | DIDI                        |  |  |  |
| upgrade firmware                                 | DIDI DI                     |  |  |  |
| Upgrade failed                                   | DIDIDI                      |  |  |  |
| VTX Indicator Status                             |                             |  |  |  |
| Link state                                       | Steady red light            |  |  |  |
| upgrade firmware                                 | Red light rapidly flashes   |  |  |  |
| Wireless connection,<br>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
- anti-shake. 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
- Gyroflow function of the camera, please provide shock the fixed deck of the camera to avoid the failure of the

VTX Specification

Communication Frequenc Transmitter Power (EIRP)

I/O Interface Dimensions SD card

Weight
Operating Temperatur
Channels
Wide Power Input
Supported FC System
OSD
Latency
Antenna

Avatar GT KIT 5.725–5.850 GHz MAX: 33dBm; FCC SRRC: <20dBm; \*\* MAX: 33dBm; FCC: <30dBm; C SRRC: <20dBm; MIC: <25dBm JST1.0\*4(power cable); micro sd card slot 25.5\*25.5mm; 20\*20mm 33.8\*33.8\*23.4mm Support 256G

; CE: <14dBm;

29.7g -10~40℃

1080p/720p

8

8
11.1V-25.2V
Betaflight; Inav; Fettec; Kiss; ArduPilot
Canvas mode
Average delay 22ms
2(IPEX)

## Camera parameters

Name Image Senso Resolution

Aperture

Shutter

Weight

Ratio Lens FOV

Avatar pro camera 1/1.8-Inch sony starvis2 sensi 1080P/100fps; 1080P/60fps; 720P/100fps; 720P/60fps 4/3 16/9 8Mp 160° F1.6

Rolling shutter

9.5g 19\*19\*24m

0.0001Lux

Min.Illumination Coaxial Cable

VTX Antenna Avatar V2 anter LHCP 5600MHz-600 1.9dBi ≤1.5 IPEX-1 D15mm × Name Polarization Frequency rai Average Gain VSWR Interfac

IPEX-1 D15mm X 45mm (without cable) imension Weight 2g

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