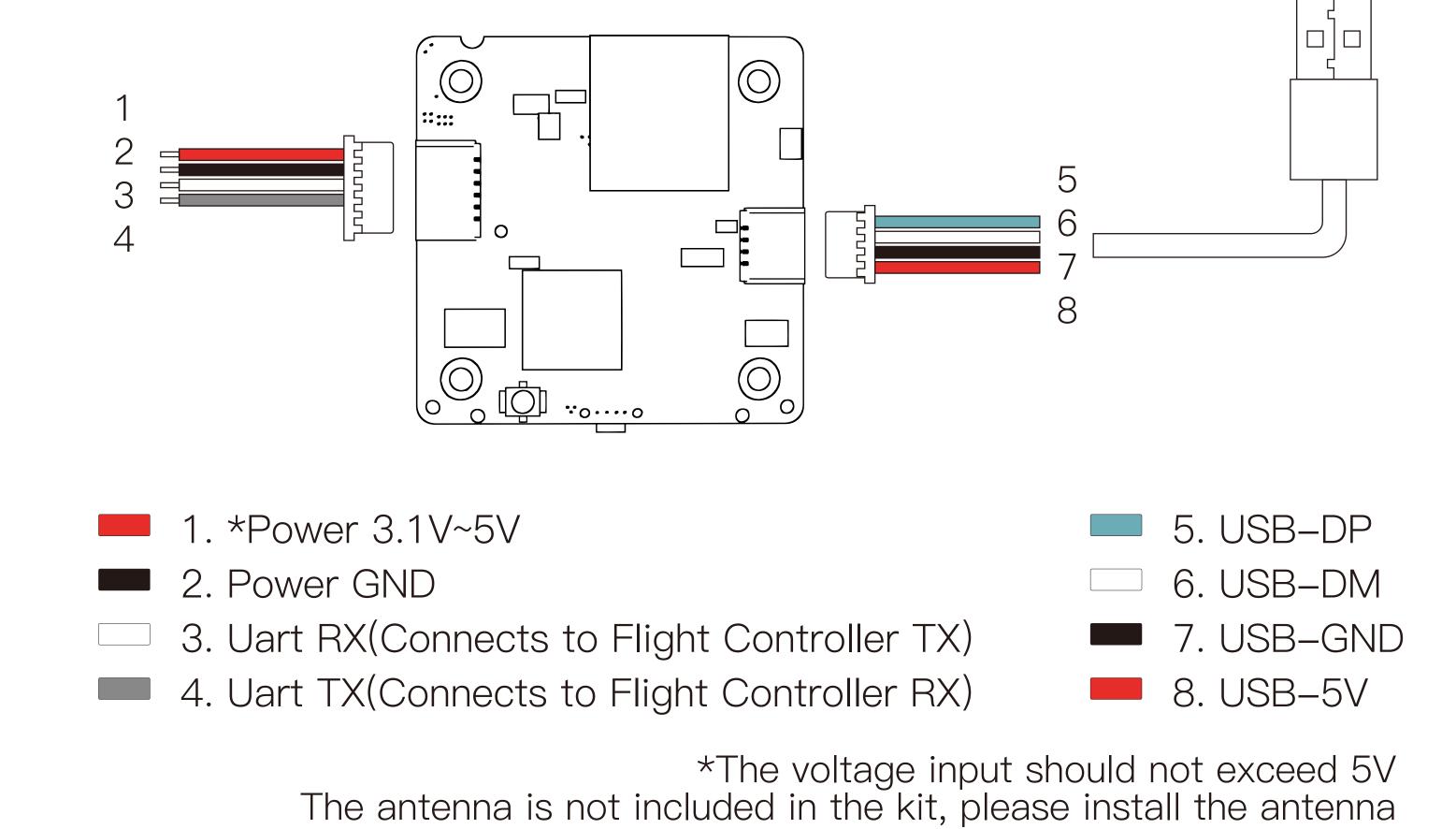
AVATAR MINI 1S KIT

QUICKSTART GUIDE

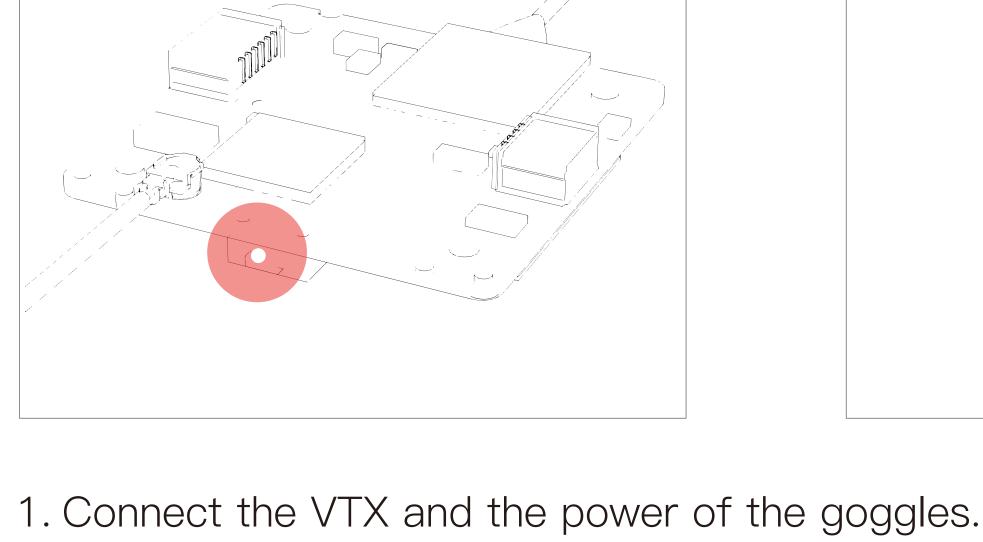
V1.1

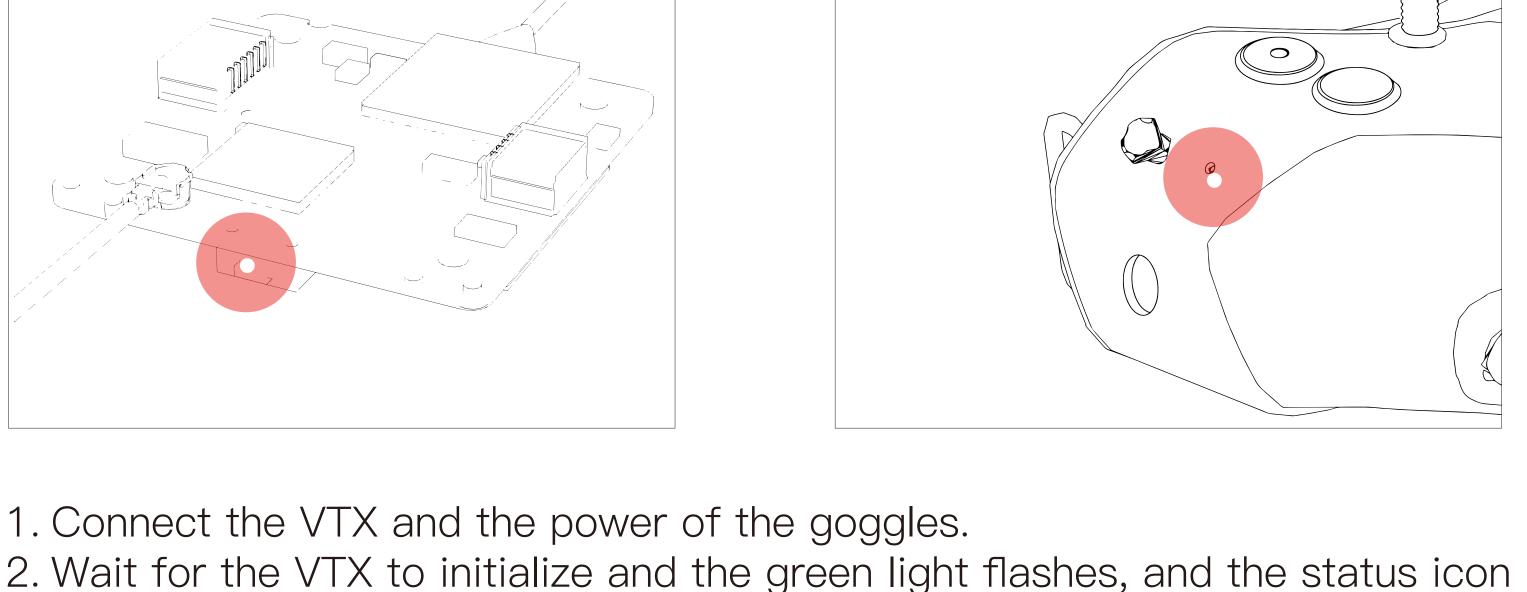
Connection



before use, it is recommended to use the LHCP antenna

Linking





appears on the goggles.

turn on the power to use the U disk function.

- 3. Press the link button of the VTX and goggles respectively (as shown in the picture), when the VTX enters the pairing state The indicator light turns red, and the goggles end is a DI... DI...
- 4. After the link is successful, the indicator light on the VTX turns solid green, the beeping sound on the goggles stops and the screen is displayed.
- upgrade

Please go to the official website to download the upgrade firmware, Avatar_

Sky_X.X.X.img is the VTX file, Avatar_Gnd_X.X.X.img is the goggles file, copy it to the VTX or SD card, be careful not to change the file name. You need to

1. Copy the upgrade file to the root directory of the VTX and the goggles, connect to the power supply and wait for the device to initialize (delete the old firmware file first if there in one). 2. Press and hold the link button on the VTX and the goggles for 8 seconds,

- the indicator light flashes red when the VTX enters the upgrade state, and the goggles automatically restarts and emits a beep...beep...beeper sound. (Do not power off during the upgrade process, the upgrade time on the goggle is about 6 minutes)
- and flashes, and the beeping sound stops after the goggles beeps for 5 seconds. Please use a fan for cooling with the VTX powered on

3. After the upgrade is successful, the indicator light of the VTX turns green

The UART function enables the VTX communicate with the flight controller, allowing the VTX obtain the flight controller information. Take Betaflight

Disabled ▼ AUTO ▼

1. Solder the white and gray wires of the 6 pin cable to the flight controller

Ports

UART

(refer to the Connection page) Setup Identifier Configuration/MSP Serial Rx Telemetry Output

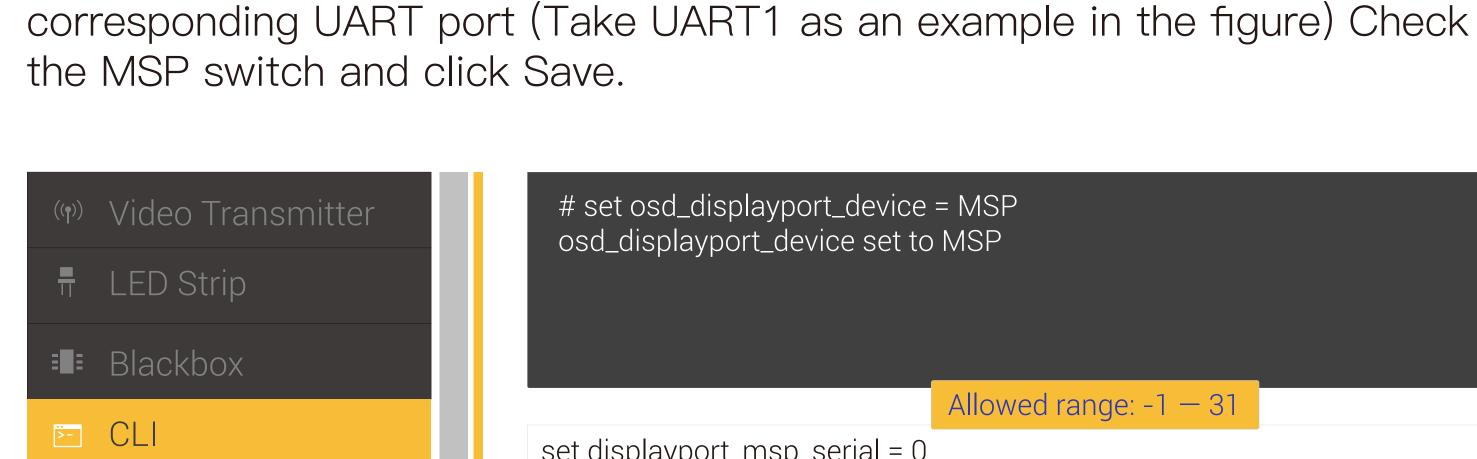
Configurator as an example to introduce the UART setting method.

USB VCP

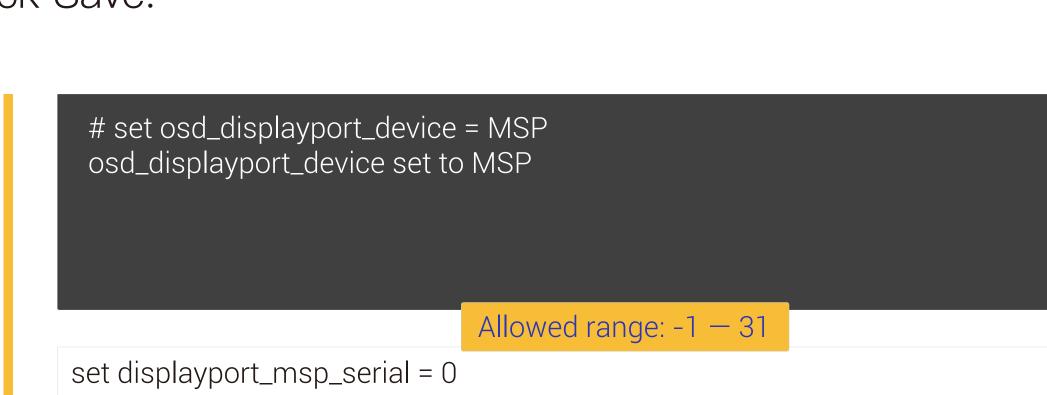
Configuration 115200 ▼ UART1 Disabled ▼ AUTO ▼ Power & Battery 115200 ▼ Disabled ▼ AUTO ▼ UART2

2. Connect the flight controller to the Betaflight Configurator, and open the

115200 ▼



"save"



DI....DI....DI.... Link state

3. Open the CLI command line and enter the content in red font

"set displayport_msp_serial = Y" (Where Y is one less than the number of

DI.....DI.....DI-

"set osd_displayport_device = MSP"

the serial port. e.g. Y = 2 for serial 3)

Status indication

Goggles Buzzer Status

upgrade firmware

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

VTX Specification

Recording

Channels

Operating Temperature

Weight

FOV

Aperture

Min.Illumination

Shutter

Operating channel

Central frequency(MHz)	Channel1	Channel2	Channel3	Channel4	Channel5	Channel6	Channel7	Channel8
FCC	5660	5695	5735	5770	5805	5878	5914	5839
CE/SRRC	5735	5770	5805	_	_	_	_	5839
MIC	5660	5700	_	_	_	_	_	5745
Make sure you fully understand and abide by local laws and regulations before using this product. An amateur radio license may be needed in FCC regions when using channels 1,2,6or 7, as they are amateur frequency bands. Users who use the amateur frequency bands with a modified or cracked version or without a license may be punished for breaking local laws or regulations.								

Model Avatar mini 1S module 5.725-5.850 GHz Communication Frequency Transmitter Power (EIRP) FCC: <25.5dBm; CE: <14dBm; SRRC: <20dBm; MIC: <25dBm JST1.0*6(Power in) JST1.0*4(USB) I/O Interface 25.5*25.5 mm Mounting Holes 33*33*6.5 mm Dimensions Storage 8 G

6.8 g

170°

F2.0

Rolling shutter

0.001Lux

8

1080p/720p

-20-40°C

Wide Power Input 3.1V - 5VSupported FC System Betaflight 25mbps / 50mbps Bitrate OSD Canvas mode Average delay 22ms Latency **IPEX** Antenna

Camera parameters Model Avatar nano 1/2.7"Inch Image Sensor Resolution 1080P/60fps, 720P/120fps, 720P/60fps 16/9 4/3 Ratio 2.1mm Lens

3.5g Weight Dimensions 14*14*17mm Coaxial Cable 45mm / 90mm

https://www.walksnail.com

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