



dji CP.TR.00000004.01 FPV Air Unit User Manual

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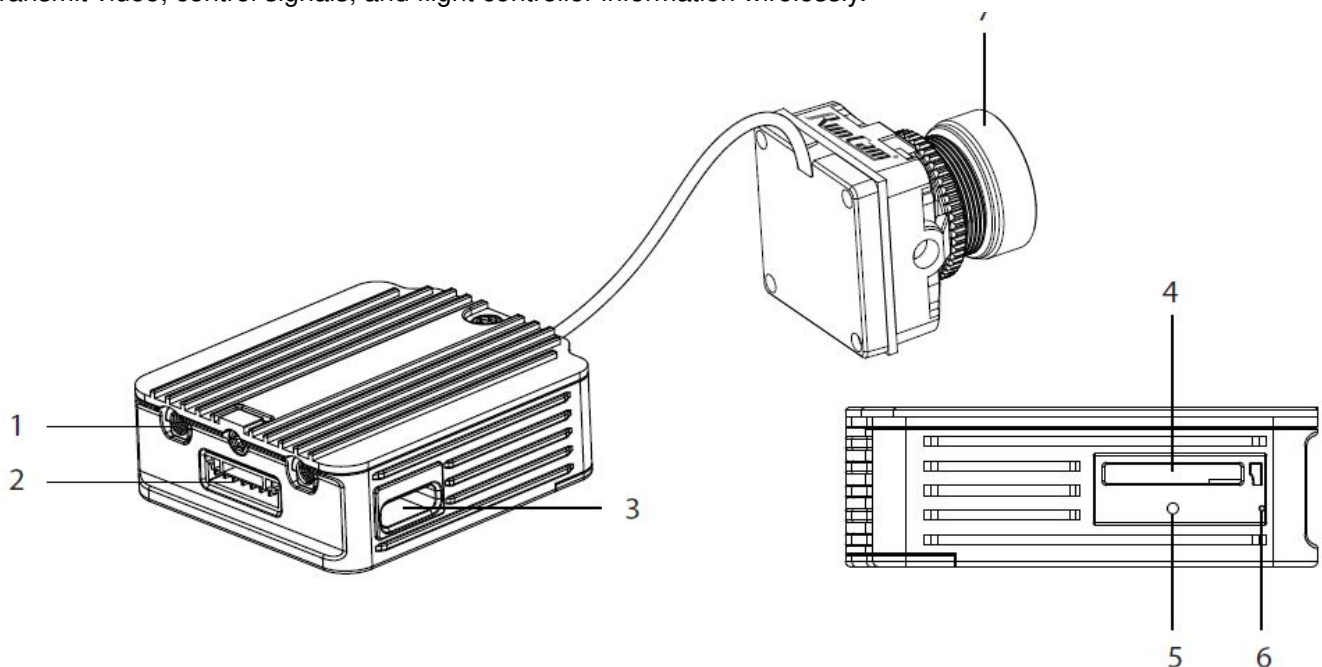


dji CP.TR.00000004.01 FPV Air Unit



Introduction

The DJI FPV Air Unit is an advanced video transmission module that supports a 5.8 GHz digital video signal and 720p 60fps image transmission, with a transmission range of up to 4 km and a minimum end-to-end latency within 32 ms*. The air unit can be mounted on a racing drone and used with DJI FPV Goggles or a remote controller to transmit video, control signals, and flight controller information wirelessly.



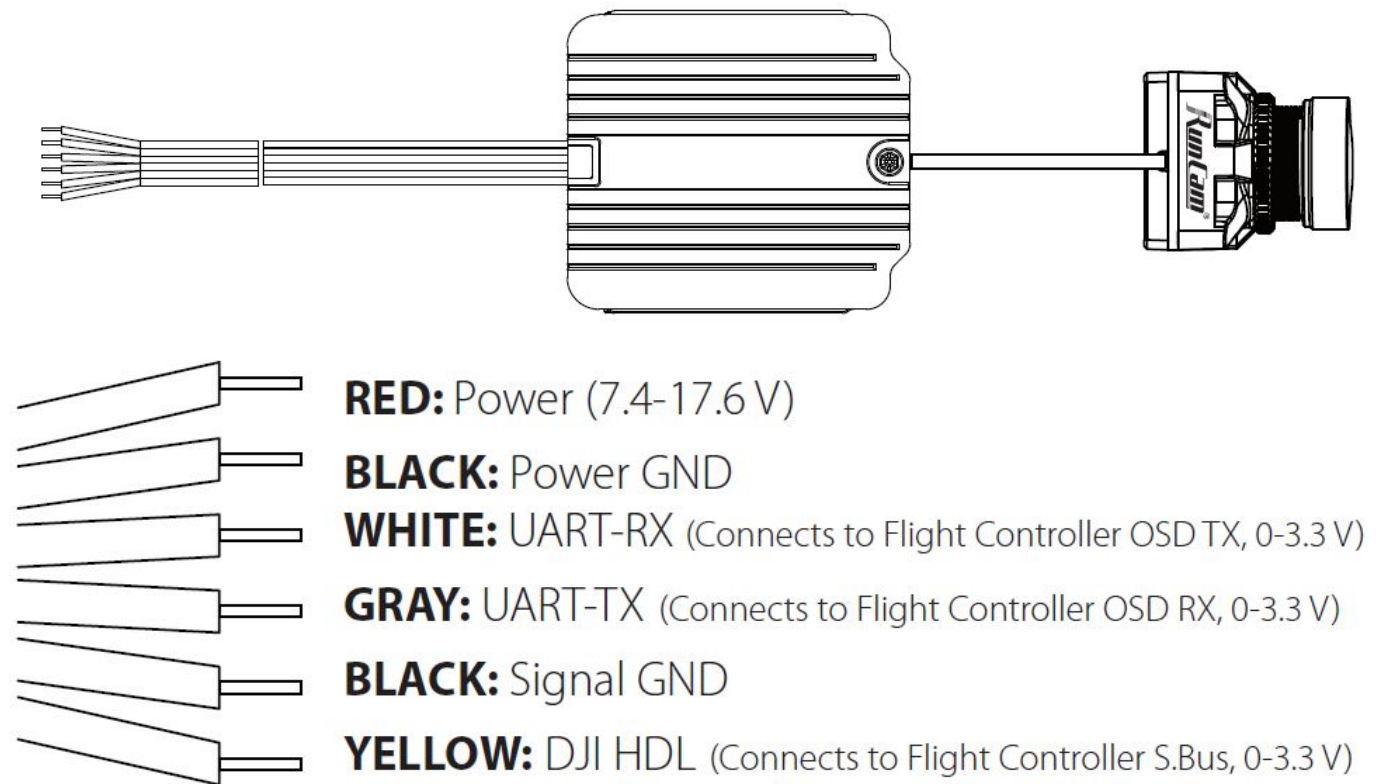
1. MMCX Antenna Ports
2. 3-in-1 Port
3. USB-C Port
4. microSD Card Slot
5. Link Button

6. Linking Status Indicator
7. Camera

*The end-to-end latency is the total time from camera input to screen display. The device is able to reach its minimum latency and maximum transmission distance (FCC) in a wide open area with no electromagnetic interference.

Connection

Refer to the illustration below to mount and connect the air unit to a racing drone.



Warnings and tips

1. An electric soldering iron and soldering tin are required for connection. Make sure that there are no short circuits or open circuits when soldering the cables.
2. There are up to eight channels for the air unit depending on the region (FCC: eight, CE/SRRC: four, MIC: three). Each channel has a bandwidth of 20 MHz. The public channel is 8, which is the default channel when the equipment is powered on. The channel can be changed manually to avoid interference from other devices.
3. The air unit may become hot during or after operation. DO NOT touch the air unit before it cools down.
4. DO NOT use the air unit for an extended period when the temperature is high or there is poor ventilation. Otherwise, the air unit may overheat and enter low-power mode which will affect its performance. If the air unit enters low-power mode, restart it or wait for it to cool down and it will automatically return to normal.
5. Keep the antennas of the air unit at least 40 mm apart. Keep the air unit away from metal objects or carbon fiber frames. Make sure to choose a position where the transmission will not be blocked during flight.

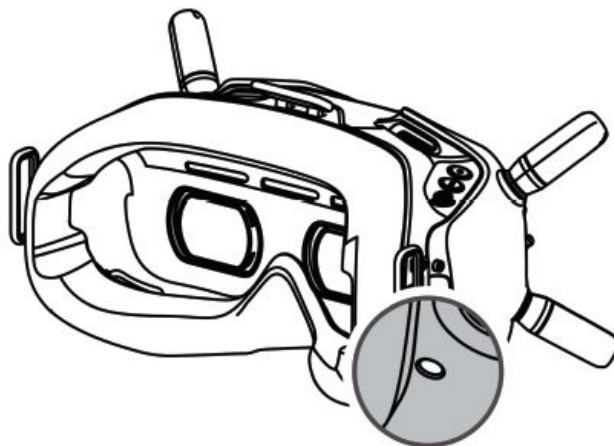
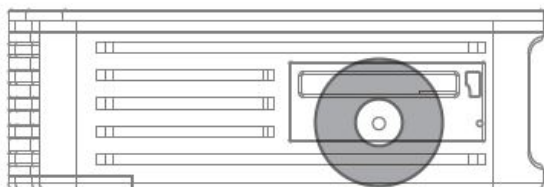
Activation

When powered on, connect the air unit to your computer and run DJI ASSISTANT™ 2 for activation. Download DJI Assistant 2 at <https://www.dji.com/fpv/downloads>

Linking

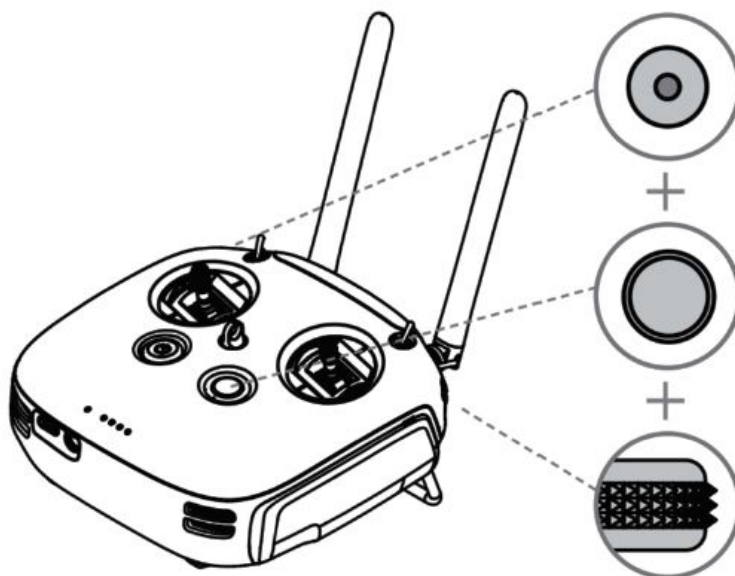
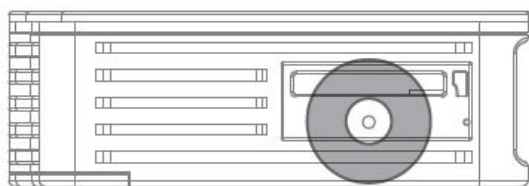
The air unit support three linking methods: A, B, and A+B (Must link A before B).

A



1. Power on the air unit and the DJI FPV Goggles.
2. Press the link button on the air unit and the goggles.*
3. The linking status indicator of the air unit turns solid green. The goggles stop beeping when successfully linked and the video display is normal.

B



1. Power on the air unit and the DJI FPV Remote Controller.
2. Press the link button on the air unit, and then press the record button, C button, and right dial on the remote controller simultaneously.*
3. Both the linking status indicators turn solid green when successfully linked.

* When ready to link, the devices will give the following indication: Air unit: the linking status indicator turns solid red. Goggles: the goggles beep continually. Remote controller: the remote controller beeps continually and the status indicator blinks blue.

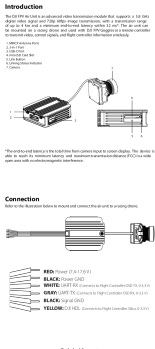
Specifications

- Weight Air Unit (camera included): 40.5 g
- Antenna:3g (MMCX-90°)
- Dimensions Air Unit: 44×37.8×14.4 mm
 - Camera: L19mm*W19mm*H23.5mm
 - Coaxial Cable: 120 mm
- Operating Frequency 5.725-5.850 GHz
- Transmitter Power (EIRP) FCC/SRRC: <30 dBm; CE: <14 dBm
- Min. Latency (end-to-end) 720p 60fps: <32 ms
- Max. Transmission Distance FCC/SRRC: 4 km; CE: 0.7 km;
- Video Format MP4 (Video format: H.264;Audio format: AAC-LC)
- I/O Interface USB-C, MMCX, 3-in-1 port, microSD card slot
- Supported Flight Control System BetaFlight
- Operating Temperature Range 0° to 40° C (32° to 104° F)
- Power 7.4-17.6V
- Camera Sensor: 1/2"
 - Resolution: 1280*720@60fps
 - LENS: FOV D:157° H:133° V:72°
 - Shutter: Rolling Shutter
 - Net Weight: 7.5g

Technical Support

Please visit: <https://support.runcam.com>

Documents / Resources

 <p>Introduction</p> <p>Read this manual carefully before using the device. The device is a professional-grade FPV camera and transmitter. It is not a toy. It is not to be used in a way that could cause injury or damage to property. It is not to be used in a way that could cause interference with other electronic equipment. It is not to be used in a way that could cause a fire or explosion. It is not to be used in a way that could cause a crash or other accident. It is not to be used in a way that could cause a loss of life or limb. It is not to be used in a way that could cause a loss of property. It is not to be used in a way that could cause a loss of reputation. It is not to be used in a way that could cause a loss of business. It is not to be used in a way that could cause a loss of income. It is not to be used in a way that could cause a loss of health. It is not to be used in a way that could cause a loss of happiness. It is not to be used in a way that could cause a loss of anything else that is important to you.</p> <p>Connection</p> <p>Read the following instructions carefully before connecting the device to your system. The device is designed to be connected to a system that supports the following specifications:</p> <ul style="list-style-type: none"> • Video: 1080p, 720p, 480p • Audio: AAC-LC, MP3 • Video Format: H.264, H.265 • Audio Format: AAC-LC, MP3 • Video Frame Rate: 60fps, 30fps, 15fps • Audio Sample Rate: 48kHz, 44.1kHz, 32kHz, 24kHz, 20kHz, 16kHz, 12kHz, 8kHz, 4kHz • Video Resolution: 1280x720, 1920x1080, 1280x800, 1280x600, 1280x480, 1280x360, 1280x240, 1280x180, 1280x144, 1280x108, 1280x81, 1280x64, 1280x48, 1280x36, 1280x27, 1280x18, 1280x14, 1280x10, 1280x8, 1280x6, 1280x4, 1280x3, 1280x2, 1280x1 • Audio Resolution: 1280x720, 1920x1080, 1280x800, 1280x600, 1280x480, 1280x360, 1280x240, 1280x180, 1280x144, 1280x108, 1280x81, 1280x64, 1280x48, 1280x36, 1280x27, 1280x18, 1280x14, 1280x10, 1280x8, 1280x6, 1280x4, 1280x3, 1280x2, 1280x1 <p>Technical Support</p>	<p>dji CP.TR.00000004.01 FPV Air Unit [pdf] User Manual</p> <p>CP.TR.00000004.01, FPV Air Unit, CP.TR.00000004.01 FPV Air Unit</p>
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References

- [DJI Digital FPV System - Product Information - DJI](#)