



DJI O3 Air Unit

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DJI O3 Air Unit - Go the Distance

Advanced DJI transmission technology and a lightweight, compact design - that's the DJI O3 Air Unit. The unit provides the highest quality image transmission, standing out for its long range and ultra-low latency. It also utilises breakthroughs in imaging performance. Among other things, you get a 1/1.7-inch sensor, flagship video technology and a super-wide 155° field of view. In doing so, the DJI O3 Air Unit is also compatible with a whole range of products. It's the perfect image transmission tool to take your FPV experience to a whole new level!

Flagship video transmission

Enjoy powerful video transmission capabilities. The DJI O3 Air Unit offers DJI's flagship O3+ technology for faster response times when controlling your drone and a crisp, incredibly sharp live view. The unit is also equipped with high-performance 2T2R omni-directional antennas so you can enjoy smoother and more stable transmission. Get ready to fly and rediscover the magic of sky travel!

Improved live view quality

Enjoy a smooth and clear live view. The DJI O3 Air Unit supports the H.265 codec and enables 1080p video at up to 100 frames per second. This gives you excellent image quality. Enjoy flying even more and experience unforgettable adventures in the skies!

Feel the freedom to fly

Do you have the soul of an explorer? Now you can fly even further and freely explore beautiful corners! The DJI O3 Air Unit provides a transmission range of up to 2km, a maximum bitrate of 50Mbps and an incredibly low latency of around 30ms. It also supports automatic bandwidth selection, so it almost always uses optimal signals and features high immunity to interference. All this translates into an extremely stable long-range connection. With the DJI O3 Air Unit you will feel free as a bird!

Fantastic image quality thanks to the camera module

Create stunning video footage. The DJI O3 Air Unit is equipped with a state-of-the-art camera module that offers 20GB of built-in memory and a 1/1.7-inch sensor. This allows you to record stable 4K/60FPS videos that will impress you with a wealth of detail. The unit also provides a super-wide 155° field of view, so you can fit even more into every frame. The module's focal length equivalent to 12.7mm and f/2.8 aperture are also a plus - check out all its capabilities!

Stunning colours

Discover a world of delightful colours. The special D-Cinelike mode will give you more freedom when editing your footage, enabling advanced colour correction. What's more, the DJI O3 Air Unit camera module is ideal for use with the separately available ND filters (ND8/16/32) designed for the DJI Avata. They are made of high quality materials and allow for effortless exposure selection and flexible aperture control. This allows you to achieve perfectly reproduced colours and a natural contrast between light and shadow.

Tailored to your needs

Use the DJI O3 Air Unit in a variety of configurations. The unit features a lightweight and compact design, and stands out for its wide compatibility. This makes it perfect for a wide range of scenarios. What's more, the DJI O3 Air Unit supports a special Canvas mode that allows you to customise the information displayed on the screens of the DJI Goggles 2 or DJI FPV Goggles V2. You can also change the PID parameters and set the system to best meet your needs.

Compatibility with DJI devices

The DJI O3 Air Unit works perfectly with a variety of DJI devices. It is compatible with the DJI FPV Remote Controller 2 camera, which features an ergonomic design and has modern Hall effect sticks. It also offers an advanced M-mode that will allow you to perform even the most complex manoeuvres. The DJI O3 Air Unit also works in conjunction with the DJI FPV Goggles V2, which supports O3 transmission and provides long range, high resolution, noise immunity and low latency. It is also compatible with DJI Goggles 2, which are smaller, lighter and have micro-OLED screens.

In the box

DJI O3 Air Unit camera module x1
DJI O3 Air Unit transmission module x1
DJI O3 Air Unit antenna x1
3-in-1 cable DJI O3 Air Unit x1

Specification

Camera

Sensor

1/1.7-inch CMOS;

Effective Pixels: 48 MP;

Lens

FOV: 155°;

Equivalent Focal Length: 12.7 mm;

Focal Length: 2.34 mm;

Aperture: f/2.8;

Focus Mode: FF;

Focus Range: 0.6 m to ∞ ;

ISO Range

100-6400 (Auto);

100-25600 (Manual);

Shutter

Rolling Shutter

FOV

155°

Video Resolution

With DJI Goggles 2:

4K@50/60fps;

2.7K@50/60/100fps;

1080p@50/60/100fps;

With DJI FPV Goggles V2:

4K@50/60fps;

2.7K@50/60/100/120fps;

1080p@50/60/100/120fps;

Video Format

MP4

EIS

Supports RockSteady

Weight

Approx. 8.3 g (coaxial cable included)

Air Unit

Weight

Air Unit (camera module excluded): Approx. 28 g;

Air Unit (camera module included): Approx. 36.4 g;

Antenna: Approx. 3 g;

Dimensions (L×W×H)

Transmission Module: 32.5×30.5×14.5 mm (L×W×H);

Camera Module: 21.2×20×19.5 mm (L×W×H);

Coaxial Cable: 115 mm (length);

3-in-1 Cable: 100 mm (length);
Antenna: 85 mm (length);
Communication Frequency
2.400-2.4835 GHz (RX only);
5.725-5.850 GHz (RX and TX);

*The 5.8 GHz frequency band is currently banned in certain countries and regions. For details, please refer to local laws and regulations.

Transmission Power (EIRP)

FCC: < 33 dBm;

CE: < 14 dBm;

SRRC: < 30 dBm;

Live View Quality and End-to-End Latency

With DJI FPV Goggles V2:

810p/120fps Video Transmission Quality: The latency is lower than 28 ms.;

810p/60fps Video Transmission Quality: The latency is lower than 40 ms.;

With DJI Goggles 2:

1080p/100fps Video Transmission Quality: The latency is as low as 30 ms.;

1080p/60fps Video Transmission Quality: The latency is as low as 40 ms.;

*Tested in an outdoor open environment free of interference. The video transmission latency data varies with different devices.

Max Video Transmission Range

10 km (FCC), 2 km (CE), 6 km (SRRC)

*Data is tested under different standards in an outdoor open environment free of interference. It should serve only as a reference for the max one-way communication distance without considering RTH. Please pay attention to the RTH prompts during actual flight. Standards in different countries/regions:

FCC: United States, Australia, Canada, Hong Kong, Taiwan, Chile, Colombia, Puerto Rico, and other regions.

SRRC: Mainland China.

CE: UK, France, Germany, Portugal, Spain, Switzerland, Macau, New Zealand, UAE, and other regions.

Supported Flight Controller Firmware

Compatible with flight controller firmware that supports Betaflight. For more information, check the product FAQ.

Input Voltage

7.4-26.4 V

Operating Temperature

-10° to 40° C (14° to 104° F)

Channels

Supports auto mode;

Supports manual mode:

40 MHz: 1 channel;

20 MHz: 3 channels;

10 MHz: 3 channels;

Channels Info

FCC/SRRC/CE:

40 MHz:

Channel 1: 5794.5 MHz;

20 MHz/10 MHz:

Channel 1: 5768.5 MHz;

Channel 2: 5804.5 MHz;

Channel 3: 5839.5 MHz;

Supported SD Cards

microSD (up to 256 GB)

Recommended microSD Cards

SanDisk Extreme U3 V30 A1 32GB microSDXC;

SanDisk Extreme Pro U3 V30 A1 32GB microSDXC;

Kingston Canvas Go!Plus U3 V30 A2 64GB microSDXC;

Kingston Canvas React Plus U3 V90 A1 64GB microSDXC;

Kingston Canvas React Plus U3 V90 A1 128GB microSDXC;

Kingston Canvas React Plus U3 V90 A1 256GB microSDXC;

Samsung PRO Plus U3 V30 A2 256GB microSDXC;

Supported DJI Goggles

DJI Goggles 2 and DJI FPV Goggles V2

Supported DJI Remote Controller

DJI FPV Remote Controller 2

DJI Goggles 2

Model

RCDS18

Weight

Approx. 290g (headband included)

Dimensions (L×W×H)

With antennas folded: 167.40×103.90×81.31 mm;

With antennas unfolded: 196.69×103.90×104.61 mm;

Screen Size (single screen)

0.49-inch

Resolution (single screen)

1920×1080

Refresh Rate

Up to 100 Hz

Interpupillary Distance Range

56-72 mm

Diopter Adjustment Range

-8.0 D to +2.0 D

FOV (single screen)

51°

Communication Frequency

2.400-2.4835 GHz;

5.725-5.850 GHz;

Transmission Power (EIRP)

2.4 GHz: < 30 dBm (FCC), < 20 dBm (CE/STRC/KC);

5.8 GHz: < 30 dBm (FCC), < 23 dBm (STRC), < 14 dBm (CE/KC);

Wi-Fi Protocol

Wi-Fi 802.11b/a/g/n/ac

Wi-Fi Communication Frequency

2.400-2.4835 GHz;

5.150-5.250 GHz (indoor use only);

5.725-5.850 GHz;

*The 5.1 GHz frequency band is currently banned in Thailand and Israel. For details, please refer to local laws and regulations.

Wi-Fi Transmission Power (EIRP)

2.4 GHz: < 20 dBm (FCC/CE/STRC/KC);

5.1 GHz: < 20 dBm (FCC/CE/KC);

5.8 GHz: < 20 dBm (FCC/STRC/KC), < 14 dBm (CE);

Bluetooth Protocol

Bluetooth 5.2

Bluetooth Communication Frequency

2.400-2.4835 GHz

Bluetooth Transmission Power (EIRP)

< 8 dBm

Max Video Transmission Bitrate

50 Mbps

*Tested in an outdoor open environment free of interference. The video transmission bitrate varies by operating environment.

Video Recording Format

MOV

Supported Video and Audio Playback Formats

MP4 and MOV (video coding formats: H.264 and H.265; audio formats: AAC and PCM)

Wi-Fi Wireless Streaming

Supports DLNA protocol

Operating Temperature

-10° to 40° C (14° to 104° F)

Power Input

DJI Goggles 2 Battery

Supported SD Cards

microSD (up to 256 GB)

DJI Goggles 2 Battery

Capacity

1800 mAh

Voltage

7-9 V (1.5 A)

Type

Li-ion

Chemical System

LiNiMnCoO₂

Energy

18 Wh

Charging Temperature

0° to 45° C (32° to 113° F)

Max Charging Power

12.6 W (5 V/2 A, 9 V/1.4 A)

Weight

Approx. 122 g

Dimensions (L×W×H)

73.04×40.96×26 mm

Operating Time

Approx. 2 hours

DJI FPV Goggles V2

Model

FGDB28

Weight

Approx. 420 g (headband and antennas included)

Supported Video and Audio Playback Formats

MP4, MOV, MKV (video coding format: H.264;

audio formats: AAC-LC, AAC-HE, AC-3, MP3)

Operating Temperature

0° to 40° C (32° to 104° F)

Video Recording Format

MOV (video coding format: H.264)

FOV

30° to 54°, adjustable; Image Size: 50% to 100%;

Communication Frequency

2.400-2.4835 GHz;

5.725-5.850 GHz;

Max Video Transmission Bitrate

50 Mbps

Dimensions (L×W×H)

Without antennas: 184×122×110 mm;

With antennas: 202×126×110 mm;

Transmission Power (EIRP)

2.400-2.4835 GHz:

FCC: ≤ 28.5 dBm;

CE: ≤ 20 dBm;

SRRC: ≤ 20 dBm;

5.725-5.850 GHz:

FCC: ≤ 31.5 dBm;

CE: ≤ 14 dBm;

SRRC: ≤ 19 dBm;
Screen Size (single screen)
2-inch
Power Input
Dedicated DJI Goggles batteries
Supported SD Cards
microSD (up to 256 GB)
Communication Bandwidth
Max 40 MHz
Interpupillary Distance Range
58-70 mm
Refresh Rate
144 Hz
Screen Resolution
1440×810

DJI FPV Goggles V2 Battery

Weight
Approx. 119 g
Dimensions (L×W×H)
73.04×40.96×26 mm
Capacity
1800 mAh
Voltage
Max 9 V
Chemical System
LiNiMnCoO₂
Type
Li-Po 2S
Energy
18 Wh
Charging Temperature
0° to 45° C (32° to 113° F)
Max Charging Power
10 W
Operating Time
Approx. 110 mins

DJI FPV Remote Controller 2

Model
FC7BGC
Weight
Approx. 346 g
Communication Frequency
2.400-2.4835 GHz;
5.725-5.850 GHz;

Transmission Power (EIRP)

2.4 GHz: ≤ 28.5 dBm (FCC), ≤ 20 dBm (CE/SRRC);

5.8 GHz: ≤ 31.5 dBm (FCC), ≤ 19 dBm (SRRC), ≤ 14 dBm (CE);

Dimensions (L×W×H)

190×140×51 mm

Operating Time

Approx. 9 hours

Operating Temperature

-10° to 40° C (14° to 104° F)

Charging Time

2.5 hours

Price:

€ 249.00

RC models, Live FPV preview, Accessories