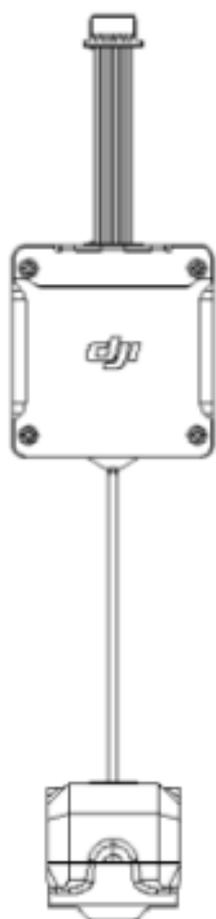


DJI O3 Air Unit

User Guide



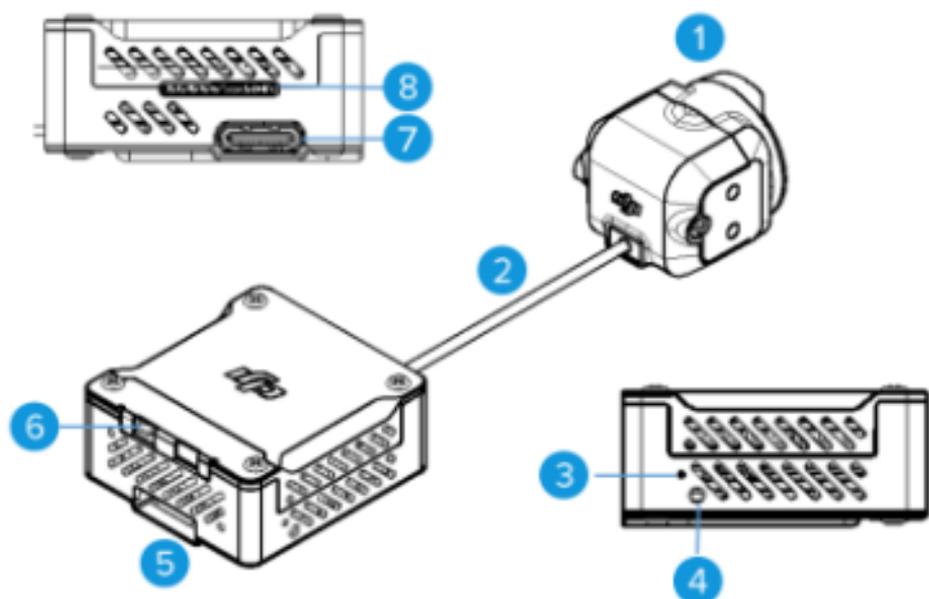
v1.0 2022.1

Disclaimer

By using this product, you signify that you have read, understand, and accept the terms and conditions here. EXCEPT AS EXPRESSLY PROVIDED IN AFTER-SALES SERVICE POLICIES AVAILABLE AT ([HTTP://WWW.DJI.COM/SERVICE](http://www.dji.com/service)).

Introduction

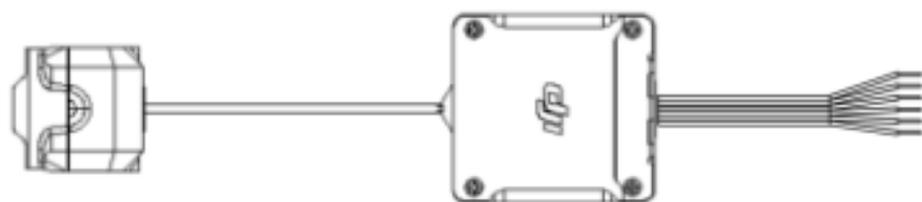
DJI Air Unit is an advanced video transmission module that can be mounted on a racing drone. It can be used with DJI Goggles and a remote controller to transmit video, control signals, and flight controller information wirelessly.



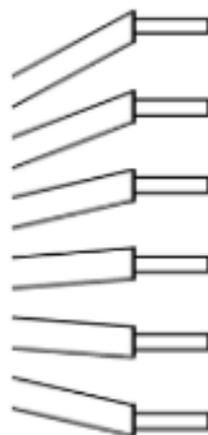
1. Camera
2. Coaxial Cable
3. Linking Status Indicator
4. Link Button
5. 3-in-1 Cable Connector
6. Antenna Ports
7. USB-C® Port
8. microSD Card Slot

Installation

Mount the air unit to a racing drone and refer to the illustration below to connect the 3-in-1 cable.



3-in-1 Cable (Power, DJI HDL, UART)



RED: Power (7.4-26.4 V)

BLACK: Power GND

WHITE: UART RX (Connects to Flight Controller OSD TX, 0-3.3 V)

GRAY: UART TX (Connects to Flight Controller OSD RX, 0-3.3 V)

BROWN: Signal GND

YELLOW: DJI HDL (Connects to Flight Controller S.Bus, 0-3.3 V)



- 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.



- The air unit may become hot during or after operation. DO NOT touch the air unit before it cools down.
- 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 the performance.
- When installing the antenna, make sure that the antenna is not blocked by any component.

Activation

When powered on, connect the USB-C port of the device to your computer and run DJI Assistant™ 2 to activate the device.

Firmware Update

Use DJI Assistant 2 to update the firmware of the air unit, goggles, and remote controller separately. Restart the device after the firmware update is complete.

Linking

Power on the air unit, the goggles, and the remote controller.

1. Press the link button of the air unit and the goggles respectively. The linking status indicator of the air unit blinks red, and the goggles starts to beep continually.
2. When linking is successful, the linking status indicator of the air unit turns solid green, the goggles stop beeping, and the live view will be displayed.
3. Press the link button of the air unit, the linking status indicator of the air unit blinks red. Press and hold the power button of the remote controller, the remote controller starts to beep continually and the status indicator blinks in sequence.
4. When linking is successful, the linking status indicators of the air unit turns solid green and the remote controller stops beeping.

Specifications

Weight	33.7 g (includes the camera module)
Dimensions	The dimensions of the video transmission module and camera module are shown in the illustration after the spec table. Coaxial Cable: 115 mm
Operating Temperature	0° to 40° C (32° to 104° F)
Supported Flight Controller System	BetaFlight
Power Input	7.4 V – 26.4 V
Operating Frequency	2.400 ~ 2.4835 GHz (RX Only) ; 5.725 ~ 5.850 GHz
Transmitter Power (EIRP)	FCC: <33 dBm; SRRC: <30 dBm; CE: <14 dBm

Compliance Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Information

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

ISED Compliance Notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1)This device may not cause interference.(2)This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1)L'appareil ne doit pas produire de brouillage; (2)L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux radiations CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The portable device is designed to meet the requirements for exposure to radio waves established by the ISED.



EU Compliance Statement: SZ DJI TECHNOLOGY CO., LTD. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of the Directive 2014/53/EU.

A copy of the EU Declaration of Conformity is available online at www.dji.com/euro-compliance

EU contact address: DJI GmbH, Industriestrasse 12, 97618, Niederlauer, Germany

GB Compliance Statement: SZ DJI TECHNOLOGY CO., LTD. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Radio Equipment Regulations 2017.

A copy of the GB Declaration of Conformity is available online at www.dji.com/euro-compliance

In order to avoid the possibility of exceeding the radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

Environmentally friendly disposal



Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of the appliances is responsible to bring the appliances to the collecting points or to similar collection points. With a little personal effort, you contribute to recycle raw materials and the treatment of toxic substances.

Thailand Warning message

เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามข้อกำหนดของ กทช.

Mexico Warning message

“La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.”

Brazil Warning message

Informações sobre Regulamentação

Estes equipamentos estão certificados e homologados pela ANATEL. Para maiores informações, consulte o site da ANATEL: www.anatel.gov.br.

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

Este produto está homologado pela Anatel de acordo com os

procedimentos regulamentados para

avaliação da conformidade de produtos para telecomunicações e atende aos requisitos técnicos aplicados, incluindo os limites de exposição da Taxa de Absorção Específica referente a campos elétricos, magnéticos e eletromagnéticos de radiofrequência.

