



DJI SMART CONTROLLER

The DJI Smart Controller is designed to maximize your outdoor flying experience with the Mavic 2 or other aircraft equipped with OcuSync 2.0.^[1] A 5.5-inch built-in screen displays clear, bright images, even under challenging conditions. Intuitive controls and pre-installed features like SkyTalk and the DJI GO 4 App, DJI Fly App get you up in the air quicker, clearer, and more conveniently than ever before.

*Compatible with DJI Air 2S, Mavic Air 2, Mavic 2 Zoom, Mavic 2 Pro, Mavic 2 Enterprise Series, Mavic 2 Enterprise Advanced, and Phantom 4 Pro V2.0.

Ultra-Bright Display

The DJI Smart Controller has a built-in 5.5-inch 1080p screen, providing an ultra-bright display to keep your live feed easily viewable, even in direct sunlight. At 1000 cd/m², the display is approximately twice as bright as conventional smart device screens.



5.5 inches



1080p



1000 cd/m²

OcuSync 2.0 Full-HD Video Transmission

Equipped with OcuSync 2.0 Full-HD video transmission technology, the DJI Smart Controller supports automatic switching between 2.4 GHz and 5.8 GHz, reducing the influence of environmental interference on drone operation and image quality. This also ensures reliable long-range transmission at distances of up to 10 km.^[2]

Efficient and Portable

The DJI Smart Controller connects to your drone as soon as it's powered on so you can take off fast and never miss a moment of the action. Featuring an integrated design with detachable control sticks, the DJI Smart Controller is also portable enough to bring with you anywhere.

Reliable in More Environments

The DJI Smart Controller is capable of stable operation in temperatures ranging from -20°C to 40°C, giving you a reliable HD connection with your drone in more places.

DJI Go Share

Easily transfer your aerial photos and videos from the DJI Smart Controller to your mobile device using the DJI GO 4 app's new Go Share function.

Customized System

The DJI Smart Controller's customized Android system and optimized DJI GO 4 app give you freedom from the restraints of conventional mobile devices to ensure faster, focused aerial creation. The Smart Controller also supports third-party apps ^[3] for a variety of additional sharing and editing options.

Excellent Audio and Video Performance

The DJI Smart Controller comes with a built-in microphone and speaker for expanded options such as livestreaming. It can also playback video through the HDMI output port at 4K with H.264 or H.265.

SkyTalk

The new SkyTalk^[4] feature is an amazing way to let others in on your aerial experience. Use it to livestream your drone's camera view directly to social media platforms like Facebook and Instagram.^[5] It also allows you to create and share short videos instantly.

Long-Lasting Battery Life

The 5000mAh battery supports Quick Charging and can work continuously for up to 2.5 hours.

Notes:

1. The DJI Smart Controller is compatible with Mavic Air 2, Mavic 2 and Mavic 2 Enterprise Series, Phantom 4 Pro V2.0. To ensure compatibility, always make sure your aircraft is updated with the latest firmware.
2. These results were measured using the Mavic 2. Individual results may vary depending on environment, use type, or firmware version.
3. DJI will not be liable for any permission or safety issues resulting from use of third-party apps. If an installed third-party app prevents you from enjoying optimal use of your controller, we suggest you remove the app or restore the controller to the original factory settings.
4. Coming soon; always make sure your DJI Smart Controller has latest DJI GO app and firmware.
5. Wi-Fi required.

Specifications

OcuSync 2.0

Operation Frequency Range 2.400-2.4835 GHz, 5.725-5.850 GHz ^[1]

Max Transmission Distance (unobstructed, free of interference) 10 km (FCC), 6 km (CE), 6 km (SRRC), 6 km (MIC)

Transmitter Power (EIRP)

2.400-2.4835 GHz: 25.5 dBm (FCC), 18.5 dBm (CE), 19 dBm (SRRC), 18.5 dBm (MIC)

5.725-5.850 GHz: 25.5 dBm (FCC), 12.5 dBm (CE), 18.5 dBm (SRRC)

Wi-Fi

Protocol Wi-Fi Direct, Wireless Display, 802.11a/g/n/ac, Wi-Fi with 2x2 MIMO is supported

Operation Frequency Range 2.400-2.4835 GHz, 5.150-5.250 GHz, 5.725-5.850 GHz

Transmitter Power (EIRP)

2.400-2.4835 GHz: 21.5 dBm (FCC), 18.5 dBm (CE), 18.5 dBm (SRRC), 20.5 dBm (MIC)

5.150-5.250 GHz: 19 dBm (FCC), 19 dBm (CE), 19 dBm (SRRC), 19 dBm (MIC)

5.725-5.850 GHz: 21 dBm (FCC), 13 dBm (CE), 21 dBm (SRRC)

Bluetooth

Protocol Bluetooth 4.2

Operation Frequency Range 2.400-2.4835 GHz

Transmitter Power (EIRP) 4 dBm (FCC), 4 dBm (CE), 4 dBm (SRRC), 4 dBm (MIC)

General

Battery 18650 Li-ion (5000 mAh @ 7.2 V)

Charge Type Supports USB power adapters rated 12 V/2 A

Rated Power 15 W

Storage Capacity ROM 16 GB + scalable (microSD)

Charging Time 2 hours (using a USB power adapter rated 12 V/2 A)

Working Time 2.5 hours

Video Output Port HDMI Port

Power Supply Current / Voltage (USB-A port) 5 V/ 900 mA

Operation Temperature Range -4° to 104° F (-20° to 40° C)

Storage Temperature Range

<1 month: -22° to 140° F (-30° to 60° C)

1-3 months: -22° to 113° F (-30° to 45° C)

3-6 months: -22° to 95° F (-30° to 35° C)

>6 months: -22° to 77° F (-30° to 25° C)

Charging Temperature Range 41° to 104° F (5° to 40° C)

Supported Aircraft Models ^[2] Please visit the official website for the latest information.

GNSS GPS+GLONASS

Dimensions

177.5 x 121.3 x 40 mm (antennas folded, and the control sticks unmounted)

177.5 x 181 x 60 mm (antennas unfolded, and the control sticks mounted)

Weight Approx. 630 g

Model RM500

Supported SD Cards microSD™; Supports microSD cards with a capacity of up to 128 GB and R/W speed up to UHS-I Speed Grade 3

Notes:

1. Local regulations in some countries prohibit the use of the 5.8 GHz and 5.2 GHz frequencies. In some regions, the 5.2 GHz frequency band is only allowed for indoor use.
2. The Smart Controller will support more DJI aircraft models in the future. Please visit the official website for the latest information.