Aircraft

The DJI™ MAVIC™ 2 Zoom features omnidirectional Vision Systems and Infrared Sensing Systems*, and comes with a fully stabilized 3-axis gimbal camera with an equivalent 24-48 mm 2x optical zoom lens capable of shooting 4K videos and 12-megapixel photos that support up to 4x FHD lossless zoom. DJI signature technologies such as Obstacle Sensing and Intelligent Flight Modes like HyperLapse, ActiveTrack™ 2.0, QuickShot, Panorama, and Advanced Pilot Assistance Systems, help you capture complex shots effortlessly. The Mavic 2 Zoom boasts a maximum flight speed of 44.7 mph (72 kph) and a maximum flight time** of 31 minutes.

1. Gimbal and Camera
2. Forward Vision System
3. Downward Vision System
4. Lateral Vision System
5. Downward Infrared Sensing System
6. Auxiliary Bottom Light
7. microSD Card Slot
8. Front LEDs
9. Motors
10. Propellers
11. Antennas
12. Aircraft Status Indicator
13. Upward Infrared Sensing System
14. Backward Vision System
15. Intelligent Flight Battery
16. Battery Level LEDs
17. Power Button
18. Battery Buckles
19. USB-C Port
20. Link Button/Linking Status Indicator

* The Vision Systems and Infrared Sensing Systems are affected by surrounding conditions. Read the Disclaimer and Safety Guidelines, User Manual, and watch the tutorial videos in the DJI GO™ 4 app or on the official DJI website to learn more. http://www.dji.com/mavic-2

** Maximum flight time was tested in an environment with no wind while flying at a consistent 15.5 mph (25 kph). This value is for reference only.
Remote Controller

Built into the remote controller is the DJI’s long-range transmission technology OCUSYNCTM 2.0, offering a maximum transmission range of 6.2 mi (10 km) and displaying video from the aircraft to the DJI GO 4 app on your mobile device at up to 1080p. An on-board LCD screen gives real-time aircraft data information and the detachable control sticks make the remote controller easier to store.

Maximum run time: 2 hours and 15 minutes*

- LCD Screen
- Flight Pause Button
- 5D Button
- Removable Control Sticks
- Power Button
- Antennas
- RTH Button
- Control Sticks Storage Slot
- Reserve Video-Downlink Port (USB)
- Mobile Device Clamp
- Flight Mode Switch

12. Gimbal Dial
13. Zoom Adjustment Dial
14. Record Button
15. Focus/Shutter Button
16. Video-Downlink/Power Port (micro USB)
17. C1 Button (Customizable)
18. C2 Button (Customizable)

* The remote controller is able to reach its maximum transmission distance (FCC) in a wide-open area with no electromagnetic Interference at an altitude of about 400 ft (120 m). The maximum runtime is tested in a laboratory environment. This value is for reference only.
1. Download the DJI GO 4 App and Watching Tutorial Videos

Search “DJI GO 4” in the App Store or Google Play or scan the QR code below to download the app on your mobile device.

Watch the tutorial videos at www.dji.com/mavic-2/info#video or in DJI GO 4 by tapping the icon in the top right corner of your screen.

⚠ DJI GO 4 is compatible with iOS 10.0.2 (or later) or Android 5.0 (or later).

2. Preparing the Aircraft

Remove the gimbal cover from the camera. Unfold the front arms. Unfold the rear arms.

Match the propellers to motors. Press the propellers down firmly and rotate in the lock direction.

⚠ Unfold the front arms and the propellers before the rear ones. All arms and propellers must be unfolded before takeoff.
3. Charging the Batteries

Use the provided charger to fully charge the Intelligent Flight Battery before first use.

Remove the Intelligent Flight Battery

Charging Time:
~1 hour 30 minutes
Charging Time:
~2 hour 15 minutes

⚠️ Remove the remote controller cable before charging.

• Checking the Battery Levels and Powering On/Off

Press once to check the battery level.
Press, then press and hold to turn on/off.

Low

High

Press once to check the battery level on the LCD screen.
Press once, then press and hold to turn on/off the remote controller.
4. Preparing the Remote Controller

Unfold the antennas and mobile device clamps, then attach the control sticks.

Place one end of the RC cable to the end of the slot.

Attach your mobile device within the clamps.

- Ensure the control sticks are firmly mounted.
- The remote controller cable with the Lightning connector is mounted by default. Use the appropriate cable for your mobile device to connect to the remote controller. When using an iPad or tablet, use the USB port on the remote controller.
- Do not use the Micro USB and the USB ports simultaneously for linking video.
5. Preparing for Takeoff

Power on the remote controller > Power on the aircraft > Launch DJI GO 4

Use your DJI account to activate the aircraft. Activation requires an internet connection.

6. Flight

Before taking off, make sure the Aircraft Status Bar in DJI GO 4 displays “Ready to Go”.

- **Auto Takeoff / Landing**
  - Left stick up (slowly) to take off
  - Left stick down (slowly) until you touch the ground
  - Hold a few seconds to stop the motors

- **Manual Takeoff / Landing**

  Combination stick command to start/stop the motors

  OR

  Only stop motors mid-flight in emergency situations when doing so can reduce the risk of damage or injury. The method to stop the motor can be set in DJI GO 4.
Remote Controller Operation

The default flight control is known as Mode 2. The left stick controls the aircraft’s altitude and heading, while the right stick controls its forward, backward, left and right movements. The gimbal dial controls the camera’s tilt.

Left Stick
- Up
- Down
- Turn Left
- Turn Right

Right Stick
- Forward
- Backward
- Left
- Right

⚠️ Press the Flight Pause button for emergency braking during flight.

In DJI GO 4

- Normal
- HyperLapse
- QuickShot
- ActiveTrack
- Point of Interest
- Waypoints
- TapFly
- Cinematic Mode

⚠️ Watch the tutorials in DJI GO 4 or at the official DJI website to learn more.
- Always set an appropriate RTH altitude before takeoff. When the aircraft is returning to the Home Point, you should guide it with the control sticks.
7. Fly Safe

- Fly in Open Areas
- Strong GPS Signal
- Maintain Line of Sight
- Fly Below 400 Feet (120 m)

Avoid flying over or near obstacles, crowds, high voltage power lines, trees or bodies of water.
DO NOT fly near strong electromagnetic sources such as power lines and base stations as it may affect the onboard compass.

DO NOT use the aircraft in adverse weather conditions such as rain, snow, fog and wind speeds exceeding 10 m/s or 22 mph.

Stay away from the rotating propellers and motors.

Learn more at: http://flysafe.dji.com/no-fly

It’s important to understand basic flight guidelines, for the safety of both you and those around you. Don’t forget to read the Disclaimer and Safety Guidelines.
Specifications

• Aircraft
  Weight 905 g
  Max Speed 44.7 mph (72 kph) in Sport mode without wind
  Max Service Ceiling Above Sea Level 19685 ft (6000 m)
  Operating Temperature 14° to 104° F (-10° to 40° C)
  GNSS GPS + GLONASS
  Operating Frequency 2.4-2.4835 GHz; 5.725-5.850 GHz
  Transmitter Power (EIRP) 2.4 GHz
    FCC: ≤26 dBm; CE/MIC: ≤20 dBm; SRRC: ≤20 dBm
    5.8 GHz
    FCC: ≤26 dBm; CE: ≤14 dBm; SRRC: ≤26 dBm

• Gimbal
  Controllable Range Pitch: -90° to +30°

• Camera
  Sensor 1/2.3” CMOS; Effective pixels: 12M
  Lens FOV: approx. 83° (24 mm), approx. 48° (48 mm)
    35 mm format equivalent: 24-48 mm
    Aperture: f/2.8 (24 mm) - f/3.8 (48 mm)
    Focus: 0.5 m to ∞
  ISO Range Video: 100-3200
    Photo: 100-1600 (auto); 100-3200 (manual)
  Electronic Shutter Speed 8-1/8000 s
  Max Image Size 4000×3000
  Still Photography Modes Single shot
    Burst shooting: 3/5/7 frames
    Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7 EV Bias Interval
  Video Recording Modes 4K Ultra HD: 3840×2160 24/25/30p
    2.7K: 2688×1512 24/25/30/48/50/60p
    FHD: 1920×1080 24/25/30/48/50/60/120p
  Video Storage Bitrate 100 Mbps
  Photo JPEG, DNG (RAW)
  Video MP4, MOV (MPEG-4 AVC/H.264, HEVC)
  Supported SD Cards microSD
    Max Capacity: 128 GB (UHS-I Speed Grade 3 rating required)

• Remote Controller
  Operating Frequency 2.4-2.4835 GHz; 5.725-5.850 GHz
  Max Transmission Distance (Unobstructed and free of interference) FCC: 10 km; CE/MIC: 6 km; SRRC: 6 km
  Operating Temperature 32° to 104° F (0° to 40° C)
  Battery 3950mAh @ 3.83V
Transmitter Power (EIRP)  
2.4 GHz  
FCC: ≤26 dBm; CE/MIC: ≤20 dBm; SRRC: ≤20 dBm  
5.8 GHz  
FCC: ≤26 dBm; CE: ≤14 dBm; SRRC: ≤26 dBm  

Operating Voltage  
1800mA @ 3.83V (when charging the mobile device)  

Supported Mobile Device Size  
Thickness supported: 6.5 - 8.5 mm, Max length: 160 mm  
Supported USB port types: Lightning, Micro USB (Type-B) USB-C  

• Charger  
Voltage  
17.6±0.1 V  
Rated Power  
60 W  

• Intelligent Flight Battery  
Capacity  
3850 mAh  
Voltage  
17.6 V (max)  
15.4 V (typical)  
Battery Type  
LiPo 4S  
Energy  
59.29 Wh  
Net Weight  
Approx. 297 g  
Charging Temperature Range  
41° to 104° F (5° to 40° C)  
Max Charging Power  
80 W  

For more information, read the User Manual:  
http://www.dji.com/mavic-2  
※ This content is subject to change without prior notice.