



Mavic 2 Enterprise

[DJI](#)

Part Number: Mavic 2 Enterprise

Description

Built to Empower. Destined to Serve.

Expand your capabilities in close range operations with the Mavic 2 Enterprise – your on-hand tool that is ready to be deployed at the whim of your disposal – anywhere, anytime.

- Dynamic Zoom
- OcuSync 2.0
- Modular Accessories
- Password Protection
- DJI AirSense

Lead Without Limits. Work Beyond Your Boundaries.

Unlock the possibilities of flight with an extended port that allows you to connect additional devices onto the drone, helping you perform at your best in a variety of critical missions.

- **M2E Spotlight:** Direct lost persons with greater ease using a dual spotlight that enhances your vision in low-light areas.

- **M2E Speaker:** Communicate with ground teams during emergency situations, effectively guiding pilots and workers across the operation.
- **M2E Beacon:** Conduct night missions with additional safety, allowing other pilots to easily spot you from a distance while you're operating on site.

Your In-Flight Safety. Our Top Priority.

From take-off to landing, we've refined the way you interact with your drone and the environment, ensuring that you have a safe and productive flight at all times.

Your Aircraft and Data. Under Your Control.

Simply enter your password to get access to your device and all of its features and functions. This intuitive way of logging into your device ensures secure access to your drone and its onboard data storage, thus preventing leakage of sensitive information.

Always in the Know of Your Immediate Airspace.

Avoid hazards in the sky with DJI AirSense, which enhances your airspace safety by giving you instant real-time positioning alerts on nearby manned aircraft.

Fly Safer Than Ever.

Improved FlightAutonomy gives you omnidirectional obstacle sensing, an advanced sensing system comprised of 8 high resolution vision and 2 infrared sensors placed on the sides of the aircraft. The result? A powerful set of sensors that determine the relative speed and distance between the aircraft and an object, so you can fly and hover with more stability than ever in a wide range of open and complex environments.

Sense and Avoid with Ease.

The Advanced Pilot Assistance System enables the drone to intuitively detect objects on its every move, letting you easily fly around or over obstacles, particularly in tight spaces.

Refined Imaging for Tactical & Practical Use.

The imaging system has been developed with two goals in mind: assisting pilots in close-range missions, and ensuring captured data is more relevant and trusted than ever.

Zoom In. Zoom Out.

Stay close to the action – but away from the danger. The Mavic 2 Enterprise is equipped with a 2x optical, 3x digital zoom camera that lets you operate in close range missions without putting yourself in harm's way.

- 2x Optical Zoom
- 3x Digital Zoom
- 4K Video Recording at 30 fps
- 1/2.3" 12 Megapixel CMOS Sensor

Data You Can Trust.

Like your iOS or Android device, GPS timestamping records the time and date that images are taken, so you can leverage data for industry level applications where accuracy is essential and timing is vital.

Everywhere You Go. The Power Is Always with You.

Slim enough to carry anywhere and engineered to handle any task – whenever duty calls.

Foldable. Compact. Portable.

At 905g the Mavic 2 Enterprise is rapidly foldable and swiftly slides in the side of your belt package, giving you instant power that's easily accessible and transportable - wherever you operate.

Self-Heating Batteries for Adverse Environments.

Stay powered on in demanding climates with a suite of smart self-heating batteries that are capable of working in sub-zero temperatures.

In-Built Controls at Your Command.

Fly with confidence using a range of advanced controls that are sophisticated in design and refined to give you the ultimate flying experience – every time you take off.

- **Less Interference. Enhanced Transmission:** Experience sheer flying performance with OcuSync 2.0, which supports automatic dual frequency band switching. This ensures a more reliable and stable flight, and enhanced video transmission of up to 8 km at 1080p resolution.
- **Move with Grace:** Swiftly maneuver through complex environments with a powerful propulsion system that boasts minimal sound, and offers extended flight time of up to 31 minutes and a maximum speed of 72 kph.
- **More Room for Your Missions:** With a 24 GB internal storage, you can now store a lot more data for your missions, allowing you to get more done without the constant need of transferring images manually over SD card.
- **For Your Convenience:** For missions that require an unobtrusive flight, especially during the night, simply turn all the LED lights off, and go about your mission.

Do More Across a Range of Applications

- **Firefighting:** Fight fires and save lives with greater ease and mobility across your site.
- **Law enforcement:** Use captured data to maintain public safety and safeguard your community.
- **Emergency response:** Locate missing people and tactically respond in emergency situations.
- **Powerline inspection:** Safely conduct inspections on critical infrastructure, expediting routine maintenance tasks.
- **Cell tower inspection:** Perform inspections with added safety and enhanced efficiency.
- **Bridge inspection:** See the bigger picture in complex structures without getting too close to the asset.

Professional Flight Control & App Compatibility

- **DJI Pilot:** DJI Pilot is a robust App developed specifically for enterprise users to unleash the power of their DJI drones. With development made specifically for the Mavic 2 Enterprise, DJI Pilot optimizes your flight capability for peak performance.
- **DJI FlightHub:** DJI FlightHub is a one-stop solution for managing your drone operations, supporting large organizations to effectively scale their aerial operations. Compatible with the Mavic 2 Enterprise, you can integrate FlightHub directly into your existing fleet of DJI drones and leverage its aerial intel across your organization.

Specs

Mavic 2 Enterprise Advanced Aircraft

- **Takeoff Weight (Without Accessories)** 909g
- **Max Takeoff Weight** 1100g
- **Dimensions (L×W×H):**
 - Folded: 214×91×84mm
 - Unfolded: 322×242×84mm
 - Unfolded+Spotlight: 322×242×114mm
 - Unfolded+Beacon: 322×242×101mm
 - Unfolded+Speaker: 322×242×140mm
 - Unfolded+RTK Module: 322×242×125mm
- **Diagonal Distance** 354 mm
- **Max Ascent Speed:**
 - 6 m/s (S-mode)
 - 5 m/s (P-mode)
 - 4 m/s (S-mode with accessories)
 - 4 m/s (P-mode with accessories)
- **Max Descent Speed:**
 - Descend Vertically:
 - 5 m/s (S-mode)
 - 4 m/s (P-mode)
 - Tilt
 - 7 m/s (S-mode)
 - 4 m/s (P-mode)
- **Max Speed**
 - 72 kph (S-mode, without wind)
 - 50 kph (P-mode, without wind)
- **Max Service Ceiling Above Sea Level** 6000 m
- **Max Flight Time**
 - 31 min (measured while flying at 25 kph in windless conditions)
 - 28 min (RTK module attached)
 - 29 min (with beacon turned on)
 - 30 min (with beacon turned off)
 - 24 min (with spotlight turned on)
 - 28 min (with spotlight turned off)
 - 27 min (with speaker turned on)
 - 28 min (with speaker turned off)
- **Max Wind Speed Resistance** 10 m/s (scale 5)

- **Max Tilt Angle:** 35°(S-mode, with remote controller); 25°(P-mode)
- **Max Angular Velocity:** 200°/s (S-mode); 100°/s (P-mode)
- **Operating Temperature** -10° to 40° C
- **GNSS** GPS+GLONASS
- **Hovering Accuracy Range**
 - Vertical:
 - ± 0.1 m (with RTK)
 - ± 0.1 m (with Vision Positioning)
 - ± 0.5 m (with GPS Positioning)
 - Horizontal:
 - ± 0.1 m (with RTK)
 - ± 0.3 m (with Vision Positioning)
 - ± 1.5 m (with GPS Positioning)
- **Operating Frequency:** 2.400-2.4835 GHz; 5.725-5.850 GHz
- **Transmitter Power (EIRP)**
- 2.400 - 2.4835 GHz
 FCC: ≤26 dBm ;
 CE: ≤20 dBm ;
 SRRC: ≤20 dBm;
 MIC: ≤20 dBm
 5.725 - 5.850 GHz
 FCC: ≤26 dBm;
 CE: ≤14 dBm;
 SRRC: ≤26 dBm
- **Internal Storage** 24 GB

M2EA Thermal Camera

- **Sensor** Uncooled VOx Microbolometer
- **Focal Length** Approx. 9mm, 35 mm format equivalent: Approx. 38mm
- **Sensor Resolution** 640×512 @30Hz
- **Accuracy of Thermal Temperature** Measurement: ±2°C or ±2%, whichever is greater.
- **Digital Zoom** 16 ×
- **Pixel Pitch** 12 μm
- **Spectral Band** 8-14 μm
- **Photo Format** R-JPEG
- **Video Format** MP4
- **Metering Method** Spot Meter, Area Measurement

- FFC Auto/Manual

M2EA Visual Camera

- **Sensor** 1/2" CMOS, Effective Pixels: 48 M
- **Lens FOV:** 84°; 35 mm format equivalent: 24 mm; Aperture: f/2.8; Focus: 1 m to ∞
- **ISO Range:** Video: 100-12800 (auto); Photos: 100-1600 (auto)
- **Digital Zoom** 32×
- **Max Image Size** 8000×6000
- **Still Photography Modes:** Single shot Interval: 2/3/5/7/10/15/20/30/60 s; Panorama: Sphere
- **Video Resolution:** 3840×2160@30fps; 1920×1080@30fps
- **Photo Format** JPEG
- **Video Format** MP4

Gimbal

- **Mechanical Range**
 - Tilt: -135°- +45°
 - Pan: -100°- +100°
- **Controllable Range**
 - Tilt: -90°- +30°
 - Pan: -75°- +75°
- **Stabilization** 3-axis (tilt, roll, pan)
- **Max control speed** 120°/s
- **Angular Vibration Range** $\pm 0.005^\circ$

Sensing System

- **Sensing System** Omnidirectional Obstacle Sensing^[2]
- **Forward**
 - Precision Measurement Range: 0.5 - 20 m
 - Detectable Range: 20 - 40 m
 - Effective Sensing Speed: $\leq 14\text{m/s}$
 - FOV: Horizontal: 40°, Vertical: 70°
- **Backward**
 - Precision Measurement Range: 0.5 - 16 m
 - Detectable Range: 16 - 32 m
 - Effective Sensing Speed: $\leq 12\text{m/s}$
 - FOV: Horizontal: 60°, Vertical: 77°
- **Upward** Precision Measurement Range: 0.1-8 m

- **Downward Precision Measurement Range:** 0.5 -11 m; **Detectable Range:** 11-22 m
- **Sides**
 - Precision Measurement Range: 0.5 - 10 m;
 - Effective Sensing Speed: $\leq 8\text{m/s}$;
 - FOV: Horizontal: 80° , Vertical: 65°
- **Operating Environment**
 - Forward, Backward and Sides: Surface with clear pattern and adequate lighting ($\text{lux} > 15$)
 - Upward: Detects diffuse reflective surfaces($>20\%$) (walls, trees, people, etc.)
 - Downward: Surface with clear pattern and adequate lighting ($\text{lux} > 15$)Detects diffuse reflective surfaces ($>20\%$) (walls, trees, people, etc.)

Remote Controller

- **Operating Frequency:** 2.400 - 2.483 GHz; 5.725 - 5.850 GHz
- **Max Transmission Distance (unobstructed, free of interference)**
- 2.400 - 2.483 GHz; 5.725 - 5.850 GHz
FCC: 10000m
CE: 6000m
SRRC: 6000m
MIC: 6000m
- **Transmission 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)
- **Storage ROM 16GB + microSD Extensible Storage**
- **Video Output Port HDMI Port**
- **Built-in Battery**
 - Type: 18650 Li-Po (5000 mAh @ 7.2 V)
 - Charging Mode: Charged with USB charger at 12V/2A
 - Rated Power 15 W
 - Charging time: 2 hr (with a USB charger at 12V/2A)
- **Operating Current/Voltage** 1800mA = 3.83V
- **Battery Life** Built-in Battery Approx. 2.5 hr
- **Operating Temperature** -20°C - 40°C
- **RC Size:** Folded without Joystick: 177.5 x 121.3 x 40 mm; Unfolded with Joystick: 177.5 x 181 x 60 mm
- **Weight** Approx. 630 g
- **Intelligent Flight Battery** Main Link: 17.6V = 3.41A or 17.0V=3.53A; USB: 5.0 V = 2.0 A

Intelligent Flight Battery

- **Capacity** 3850 mAh
- **Voltage** 15.4V
- **Max Charging Voltage** 17.6V
- **Battery Type** LiPo
- **Energy** 59.29 Wh
- **Net Weight** 297g
- **Charging Temperature** 5°C - 40°C
- **Operating Temperature Range:** -10°C - 40°C
- **Heating Methods:** Manual Heating, Auto Heating
- **Heating Temperature** -20°C - 6°C
- **Heating duration** 500s (Max)
- **Heating Power** 55W (Max)
- **Charging Time** 90 mins
- **Max Charging Power** 80W

RTK Module

- **Dimensions** 69 mm x 69 mm x 59mm
- **Connections** Micro USB Port
- **RTK Positioning Precision:** In RTK FIX 1cm+1ppm (Horizontal); 1.5cm+1 ppm (Vertical)

M2EA Spotlight

- **Dimensions** 68×60×41mm
- **Connections** Micro USB Port
- **Operating Range** 30 m
- **Power** Max 26W
- **Illuminance** FOV17°, Max: 11lux @ 30m Straight

M2EA Beacon

- **Dimensions** 68mm×40mm×27.8mm
- **Connections** Micro USB Port
- **Power** Avg. 1.6W
- **Controllable Range** 5000 m
- **Light intensity** Min Angle: 55 cd; Light intensity: 157cd

M2EA Speaker

- **Dimensions** 68×55×65 mm

- **Connections** Micro USB Port
- **Power** Max 10W
- **Decibel** 100 db @ 1 meter distance
- **Max Bitrate** 16kbps

SD Cards

- **Supported SD Cards:** Micro SD™. Supports a microSD with capacity of up to 128 GB. A UHS-I Speed Grade 3 rating microSD card is required.

APP / Live View

- **Video Transmission System** OcuSync 2.0
- **Mobile App** DJI PILOT(Android Version)
- **Live View Quality** Remote Controller:720p@30fps / 1080p@30fps
- **Max Live View Bitrate** 40Mbps
- **Latency** 120 - 130 ms
- **Required Operating System** ios 10.0 or later Android 5.0 or later

Others

- **Footnotes**

- [1] The accuracy of the temperature measurement is measured at a distance of 5m against a blackbody with an emissivity of 0.95 under ideal conditions. The actual accuracy is also affected by various environmental factors such as temperature and humidity, and needs to be corrected by post-processing software. Under ideal conditions, the temperature accuracy can reach $\pm 2^{\circ}\text{C}$ or $\pm 2\%$, whichever is greater.

[2] Omnidirectional Obstacle Sensing includes left/right, up/down, and forward/backward obstacle sensing. Sensing for left/right directions is only available in Tripod Mode. Omnidirectional Obstacle Sensing does not fully cover the circumference of a 360-degree arc. And left and right obstacle sensing system only works in specific modes and environments. DJI warranty does not cover any loss caused by crashing when flying left or right, even when Tripod mode is activated. Please be aware of your surroundings and App notifications when operating the Mavic 2 to ensure safety.