

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: 322x242x125mm
- **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
- **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 shotInterval: 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° - $+45^{\circ}$
Pan: -100° - $+100^{\circ}$
- **Controllable Range**
 - Tilt: -90° - $+30^{\circ}$
Pan: -75° - $+75^{\circ}$
- **Stabilization**
 - 3-axis (tilt, roll, pan)
- **Max control speed**
 - $120^{\circ}/s$
- **Angular Vibration Range**
 - $\pm 0.005^{\circ}$

Sensing System

- **Sensing System**
 - Omnidirectional Obstacle Sensing[1]
- **Forward**
 - Precision Measurement Range: 0.5 - 20 m
Detectable Range: 20 - 40 m
Effective Sensing Speed: $\leq 14m/s$
FOV: Horizontal: 40° , Vertical: 70°
- **Backward**
 - Precision Measurement Range: 0.5 - 16 m
Detectable Range: 16 - 32 m
Effective Sensing Speed: $\leq 12m/s$
FOV: Horizontal: 60° , Vertical: 77°
- **Upward**
 - Precision Measurement Range: 0.1-8 m
- **Downward**
 - Precision Measurement Range: 0.5 -11m
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
(lux > 15)
 - Upward: Detects diffuse reflective surfaces(>20%)
(walls, trees, people, etc.)
 - Downward: Surface with clear pattern and adequate lighting
(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]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.