

Aircraft

Takeoff Weight(Without Accessories)	Zoom Edition:905 g Dual Edition:899 g
Max Takeoff Weight	1100 g
Dimensions(L×W×H)	Folded: 214×91×84 mm Unfolded: 322×242×84 mm Unfolded+Spotlight: 322×242×114 mm Unfolded+Beacon: 322×242×101 mm Unfolded+Speaker: 322×242×140 mm
Diagonal Length	354 mm
Max Ascent Speed	5 m/s (S-mode ^[1]) 4 m/s (P-mode) 4 m/s (S-mode with accessories ^[1]) 4 m/s (P-mode with accessories)
Max Descent Speed	3 m/s (S-mode ^[1]) 3 m/s (P-mode)
Max Speed (near sea level, no wind)	72 kph (S-mode, without wind) 50 kph (P-mode, without wind)
Max Service Ceiling Above Sea Level	6000 m
Max Flight Time (no wind)	31 min (at a consistent speed of 25 kph)
Max Hovering Time (no wind)	29 min 27 min (with beacon turned on) 28 min (with beacon turned off) 22 min (with spotlight turned on) 26 min (with spotlight turned off) 25 min (with speaker turned on) 26 min (with speaker turned off)
Max Wind Speed Resistance	29–38 kph
Max Tilt Angle	35° (S-mode, with remote controller) 25° (P-mode)
Max Angular Velocity	200°/s (S-Mode) 100°/s (P-Mode) 200°/s (S-Mode) 100°/s (P-Mode)
Operating Temperature Range	-10°C to 40°C
GNSS	GPS+GLONASS
Hovering Accuracy Range	Vertical: ±0.1 m (with Vision Positioning) ±0.5 m (with GPS Positioning) Horizontal: ±0.3m (with Vision Positioning) ±1.5 m (with GPS Positioning)
Operating Frequency	2.400 - 2.4835 GHz 5.725 - 5.850 GHz
Transmission Power (EIRP)	2.400 - 2.4835 GHz FCC: ≤26 dBm CE: ≤20 dBm SRRC: ≤20 dBm MIC: ≤20 dBm5.725-5.850 GHz FCC: ≤26 dBm CE: ≤14 dBm SRRC: ≤26 dBm
Internal Storage	24 GB

M2ED Visual Camera

Sensor	1/2.3" CMOS; Effective pixels: 12M
Lens	FOV: approx. 85° 35 mm format equivalent:24 mm Aperture: f/2.8 Focus: 0.5 m to ∞
ISO Range	Video: 100-12800 (auto) Photo: 100-1600 (auto)
Max Image Size	4056×3040 (4:3) ; 4056×2280 (16:9)
Still Photography Modes	Single shot Burst shooting: 3/5/7 frames Interval (2/3/5/7/10/15/20/30/60 s)
Video Recording Modes	4K Ultra HD: 3840×2160 30p 2.7K: 2688×1512 30p FHD: 1920×1080 30p
Max Video Bitrate	100 Mbps
Photo	JPEG
Video Format	MP4 , MOV (MPEG-4 AVC/H.264)

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 (tilt)	120°/s
Angular Vibration Range	±0.005°

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: 10000 m CE: 6000 m SRRC: 6000 m MIC: 6000 m
Operating Temperature Range	0°C to 40°C
Transmitter Power(EIRP)	2.4 - 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
Battery	3950mAh
Charging Time	2 hours 15 min
Operating Current/Voltage	1800mA = 3.83V
Mobile Device Holder	Thickness Supported:6.5-8.5 mm, Max length: 160 mm
RC Size	Folded: 145×80×48 mm (L×W×H) Unfolded: 190×115×100 mm (L×W×H)
Supported USB port types	Lightning, Micro USB (Type-B), USB Type-C™

Charger

Input	100-240V, 50-60Hz, 1.8A
Output	Main: 17.6V = 3.41A or 17.0V=3.53 USB: 5 V = 2 A
Voltage	17.6±0.1V
Rated Power	60W

M2E Spotlight

Dimensions	68x60x41 mm
Port Type	USB Micro-B
Operating Range	30 m
Power	Max 26W
Illuminance	FOV17°, Max: 11lux @30m Straight

APP / Live View

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

Footnotes

Footnotes	[1] Remote controller required. [2] Due to real-time digital enhancements, the photo and video size of the thermal data is larger than the sensor's native resolution. [3] Omnidirectional Obstacle Sensing includes left/right, up/down, and forward/backward obstacle sensing. Sensing for left/right directions is only available in ActiveTrack or 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 ActiveTrack or Tripod mode is activated. Please be aware of your surroundings and App notifications when operating the Mavic 2 to ensure safety. These specs have been determined through tests conducted with the latest firmware. Firmware updates can enhance performance, so updating to the latest firmware is highly recommended." [4]These specs have been determined through tests conducted with the latest firmware. Firmware updates can enhance performance, so updating to the latest firmware is highly recommended." The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.
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M2ED Thermal Camera

Sensor	Uncooled VOx Microbolometer
Lens	HFOV: 57° Aperture: f/1.1
Sensor Resolution	160×120
Pixel Pitch	12 μm
Spectral Band	8-14 μm
Image Size [2]	640×480 (4:3); 640×360 (16:9)
Still Photography Modes	Single shot Burst shooting: 3/5/7 frames
Video Recording Modes	640×360 @8.7fps
Accuracy	High Gain: Max ±5% (typical) Low Gain: Max ±10% (typical)
Scene Range	High Gain: -10° to +140°C Low Gain: -10°to +400°C
Photo	JPEG
Video	MP4, MOV (MPEG-4 AVC/H.264)

M2E Camera

Sensor	1/2.3" CMOS; Effective pixels:12 Megapixels
Lens	FOV: 82.6°(24 mm); 47.8°(48 mm) Format equivalent: 24-48 mm Aperture: f/2.8(24 mm)-f/3.8(48 mm) Auto focus at : 0.5 - ∞
ISO Range	Video: 100-3200 Photo: 100-1600(Auto) 100-12800(Manual)
Shutter Speed	8-1/8000s
Still 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 (JPEG: 2/3/5/7/10/15/20/30/60s RAW:5/7/10/15/20/30/60s)
Video Resolution	4K: 3840×2160 24/25/30p 2.7K: 2720×1530 24/25/30/48/50/60p FHD: 1920×1080 24/25/30/48/50/60/120p
Max Video Bitrate	100 Mbps
Supported File System	FAT32(≤ 32 GB) ; exFAT(> 32 GB)
Photo Format	JPEG , DNG (RAW)
Video Format	MP4 / MOV (MPEG-4 AVC/H.264)

Sensing System

Sensing System	Omnidirectional Obstacle Sensing [3]
Forward	Precision Measurement Range:0.5 - 20 m Detectable Range: 20 - 40 m Effective Sensing Speed: ≤ 14m/s FOV: Horizontal: 40°, Vertical: 70°
Backward	Precision Measurement Range: 0.5 - 16 m Detectable Range: 16 - 32 m Effective Sensing Speed: ≤ 12m/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: ≤ 8m/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.)

Intelligent Flight Battery

Capacity	3850 mAh
Voltage	15.4 V
Max Charging Voltage	17.6 V
Battery Type	LiPo
Energy	59.29 Wh
Net Weight	297 g
Charging Temperature	5°C - 40°C
Operating Temperature Range	-10°C to 40°C
Heating Methods	Manual Heating; Auto Heating
Heating Temperature	-20°C to 6°C
Heating duration	600s (Max)
Heating Power	35W (Max)
Charging Time	90 min
Max Charging Power	80W

M2E Beacon

Dimensions	68x40x27.8 mm
Port Type	USB Micro-B
Power	Avg. 1.6W
Controllable Range	5000 m
Light intensity	Min Angle: 55 cd; Light intensity: 157 cd

M2E Speaker

Dimensions	68x55x65 mm
Port Type	USB Micro-B
Power	Max 10W
Decibel	100 db @ 1 meter distance
Bitrate	16 kbps

Supported 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.
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