



## Mavic 2 Enterprise Dual

### IN THE BOX

- Mavic 2 Enterprise Dual Aircraft -1
- Remote Controller – 1
- Battery Charger -1
- Power Cable -1
- Intelligent Flight Battery -1
- Gimbal Protector – 1
- Propeller (Pair) – 3
- Spare Control Stick (pair) -1
- Communication Cable-USB3.0 Type-C -1
- USB Adapter -1
- Extended Port Cover -1
- Speaker -1
- Spotlight -1
- Beacon-1
- RC Cable (Lightning connector) -1
- RC Cable (Standard Micro USB) -1
- RC Cable (USB-C) -1
- Manual -1

### POWERFUL AND PORTABLE FLIR THERMAL IMAGING

Mavic 2 Enterprise Dual features a three-axis gimbal stabilized camera housing a side-by-side 4K sensor for capturing visible light and a FLIR Lepton® thermal microcamera for capturing thermal data. Together these sensors allow pilots to perform flights at night, as well as fly in complex daytime conditions like fog and smoke<sup>[1]</sup>. Users can select from multiple intelligent display modes in the DJI Pilot flight control app to visualize data from the dual-sensor camera:

- **FLIR MSX®** – FLIR’s patented MSX, or multispectral dynamic imaging, embosses high-fidelity, visible light details onto the thermal imagery in real time to enhance visual details, helping pilots quickly identify and interpret critical data that may not be immediately visible to the naked eye.
- **Spot Meter** – Displays the average temperature of an object, helping pilots monitor and measure critical or hazardous objects while maintaining a safe distance.
- **Area Measurement** – Displays the average, lowest, and highest temperature, as well as the corresponding locations of each area, allowing inspectors to quickly assess objects and determine if an asset may be overheating.
- **Isotherm** – Allows pilots to designate specific temperature ranges to be displayed using a custom color palette so objects within the range relay higher contrast and better visibility. This feature includes custom profiles to aid search and rescue pilots in identifying people and to help firefighters identify hot spots in fires, as well as a custom profile setting for added flexibility.

"The Mavic 2 Enterprise Dual equipped with the FLIR Lepton, our smallest thermal microcamera, offers a significant opportunity to introduce thermal imaging capabilities to more drone owners," said Jim Cannon, President and CEO at FLIR. "This is our third product with DJI and its world-leading platforms, and this latest Thermal by FLIR collaboration is a significant step forward in making thermal an essential feature in the industry.

330 Changebridge Road, Pine Brook NJ 07058

# DRONE USA

## MODULAR ACCESSORIES FOR ADDED CAPABILITIES

The Mavic 2 Enterprise Dual is compatible with the full line of Mavic 2 Enterprise accessories. They are securely mounted to the drone's body and operated through the DJI Pilot flight control app. These accessories open new paths for pilots to communicate and work from the air, moving drones beyond imaging tools and into configurable platforms that enhance mission productivity.

- **Spotlight** – A dual spotlight with a brightness of 2,400 lumens aids operators in carrying out missions in dark or low-light areas. Spotlight is ideal for search and rescue as well as inspection applications.
- **Speaker** – A loudspeaker with a maximum projection of 100 decibels (1-meter distance) lets pilots play up to 10 custom voice recordings on demand, providing a communications channel to nearby individuals that can be critical during lifesaving emergency operations.
- **Beacon** – Designed with U.S. Federal Aviation Administration (FAA) Night Waiver standards in mind, the M2E Beacon features a bright flashing strobe visible three miles away. This helps pilots carry out missions in low-light conditions or at night much more safely, and provides additional airspace awareness for operators of nearby drones and traditional aircraft.



## ENHANCED DATA SECURITY FEATURES

Mavic 2 Enterprise Dual includes the same features as Mavic 2 Enterprise to protect the integrity of photos, videos, flight logs and other data generated during sensitive flights. It incorporates 24 GB of onboard data storage and password protection, creating accountability for all access to the drone's functions and stored data. When Password Protection is enabled, users are required to enter their password each time they activate the drone, link the remote controller with the drone, and access the drone's onboard storage, giving them full, exclusive use and enhanced



security. This provides secure access to the drone and its onboard data storage, while protecting that data even if the drone is physically compromised.

In addition, a GPS timestamping feature encodes the time, date, and location of every recorded image taken by the visual camera, aiding in pilot accountability and ensuring that data captured by the drone can be trusted and used in situations from reviewing critical infrastructure inspections to potential legal proceedings.

Mavic 2 Enterprise Dual users with heightened data security concerns can use the Local Data Mode feature in the DJI Pilot App which, when activated, will stop the user's connected mobile device from sending or receiving any data over the internet. This provides added security assurances for operators of flights involving critical infrastructure, governmental projects or other sensitive missions.

### IMPROVING FLIGHT AND AIRSPACE SAFETY

Every Mavic 2 Enterprise Dual comes equipped with DJI's AirSense technology to help ensure drones remain a safe addition to the skies. AirSense improves pilots' situational awareness and enhances airspace safety by automatically alerting drone pilots of ADS-B signals from nearby airplanes and helicopters and by sending real-time positioning alerts through the DJI Pilot flight control app. This technology provides an extra level of safety for professional drone operators who fly in congested airspace or near complicated operations, such as wildfire suppression, disaster recovery and infrastructure monitoring.

Mavic 2 Enterprise Dual features DJI's most advanced video and data transmission system, Ocusync 2.0, providing a more stable connection between the drone and its remote controller, even in environments with high electromagnetic interference such as urban areas. The system features stronger interference resistance and auto-switching capabilities that support both 2.4 GHz and 5.8 GHz frequency bands with the capability to use different frequencies for uplink and downlink data streams.

Mavic 2 Enterprise Dual uses DJI's FOC propulsion motors combined with efficient propellers for quieter and more efficient flight, delivering a maximum flight time of up to 31 minutes and a top speed of 72 kph (45 mph)<sup>[2]</sup>. In addition, a self-heating battery allows the drone to perform reliably in adverse weather conditions as low as -10 Celsius (14 Fahrenheit).

### SPECIFICATION'S

#### 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



# DRONE USA

Photo	JPEG
Video	MP4, MOV (MPEG-4 AVC/H.264)

## 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: 100-3200 (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)

## 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.)

## REMOTE CONTROLLER

330 Changebridge Road, Pine Brook NJ 07058



# DRONE USA

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: 8000 m CE: 5000 m SRRRC: 5000 m MIC: 5000 m
Operating Temperature Range	0°C to 40°C
Transmitter Power(EIRP)	2.4 - 2.4835 GHz FCC : ≤26 dBm ; CE : ≤20 dBm ; SRRRC : ≤20 dBm MIC : ≤20 dBm 5.725 - 5.850 GHz FCC : ≤26 dBm ; CE : ≤14 dBm ; SRRRC : ≤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™

## M2E SPOTLIGHT

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

## 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