

dji ENTERPRISE

DJI MATRICE 350

Specifiche tecniche

Aircraft



- Dimensions (unfolded, without propellers)
 - 810×670×430 mm (L×W×H)
- Dimensions (folded, with propellers)
 - 430×420×430 mm (L×W×H)
- Diagonal Wheelbase
 - 895 mm
- Weight (with single downward gimbal)
 - Without batteries:
Approx. 3.77 kg

With two TB65 batteries:

Approx. 6.47 kg

- Single Gimbal Damper's Max Payload
 - 960 g
- Max Takeoff Weight
 - 9.2 kg
- Operating Frequency
 - 2.4000-2.4835 GHz
 - 5.150-5.250 GHz (CE: 5.170-5.250 GHz)
 - 5.725-5.850 GHz

In some countries and regions, the 5.1GHz and 5.8GHz frequency bands are prohibited, or the 5.1GHz frequency band is only allowed for indoor use.

Please refer to local laws and regulations for more information.

- Transmitter Power (EIRP)
 - 2.4000-2.4835 GHz:
< 33 dBm (FCC)
< 20 dBm (CE/SRRC/MIC)

5.150-5.250 GHz (CE: 5.170-5.250 GHz):

< 23 dBm (CE)

5.725-5.850 GHz:

< 33 dBm (FCC/SRRC)

< 14 dBm (CE)

- Hovering Accuracy (with moderate or no wind)

- Vertical:

±0.1 m (with vision positioning)

±0.5 m (with GNSS positioning)

±0.1 m (with RTK positioning)

Horizontal:

±0.3 m (with vision positioning)

±1.5 m (with GNSS positioning)

±0.1 m (with RTK positioning)

- RTK Positioning Accuracy (RTK FIX)

- 1 cm + 1 ppm (horizontal)

1.5 cm + 1 ppm (vertical)

- Max Angular Velocity

- Pitch: 300°/s

Yaw: 100°/s

- Max Pitch Angle

- 30°

When in N mode and with the forward vision system enabled: 25°.

- Max Ascent Speed

- 6 m/s

- Max Descent Speed (vertical)

- 5 m/s

- Max Tilted Descent Speed

- 7 m/s

- Max Horizontal Speed

- 23 m/s

- Max Flight Altitude

- 5000 m

When using the 2110s propellers and with the takeoff weight ≤ 7.4 kg.

7000 m

When using the 2112 High-Altitude Low-Noise Propellers and with the takeoff weight ≤ 7.2 kg.

- Max Wind Speed Resistance

- 12 m/s
- Max Flight Time
 - 55 minutes

Measured with Matrice 350 RTK flying at approximately 8 m/s without payloads in a windless environment until the battery level reached 0%. Data is for reference only. Actual usage time may vary depending on the flight mode, accessories, and environment. Please pay attention to reminders in the app.
- Supported DJI Gimbals
 - Zenmuse H20, Zenmuse H20T, Zenmuse H20N, Zenmuse P1, and Zenmuse L1
- Supported Gimbal Configurations
 - Single downward gimbal
 - Single upward gimbal
 - Dual downward gimbals
 - Single downward gimbal + single upward gimbal
 - Dual downward gimbals + single upward gimbal
- Ingress Protection Rating
 - IP55

The IP rating is not permanently effective and may decrease due to product wear and tear.
- Global Navigation Satellite System
 - GPS + GLONASS + BeiDou + Galileo
- Operating Temperature
 - -20° to 50° C (-4° to 122° F)

Remote Controller

- Screen
 - 7.02-inch LCD touchscreen; resolution: 1920×1200; max brightness: 1200 nits
- Weight
 - Approx. 1.25 kg (without WB37 battery)
 - Approx. 1.42 kg (with WB37 battery)
- Global Navigation Satellite System
 - GPS + Galileo + BeiDou
- Built-in Battery
 - Type: Li-ion (6500 mAh@7.2 V)
 - Charging Type: Use the battery station or USB-C fast charger with a max power of 65 W (max voltage of 20 V).
 - Charging Time: 2 hours
 - Chemical System: LiNiCoAlO₂

- External Battery (WB37 Intelligent Battery)
 - Capacity: 4920 mAh
 - Voltage: 7.6 V
 - Type: Li-ion
 - Energy: 37.39 Wh
 - Chemical System: LiCoO₂
- Ingress Protection Rating
 - IP54
- Operating Time
 - Built-in Battery: approx. 3.3 hours
 - Built-in Battery + External Battery: approx. 6 hours
- Operating Temperature
 - -20° to 50° C (-4° to 122° F)
- Operating Frequency
 - 2.4000-2.4835 GHz
 - 5.725-5.850 GHz
- Transmitter Power (EIRP)
 - 2.4000-2.4835 GHz:
 - < 33 dBm (FCC)
 - < 20 dBm (CE/SRRC/MIC)

 - 5.725-5.850 GHz:
 - < 33 dBm (FCC)
 - < 14 dBm (CE)
 - < 23 dBm (SRRC)
- Wi-Fi Protocol
 - Wi-Fi 6
- Wi-Fi Operating Frequency
 - 2.4000-2.4835 GHz
 - 5.150-5.250 GHz
 - 5.725-5.850 GHz
- Bluetooth Protocol
 - Bluetooth 5.1
- Bluetooth Operating Frequency
 - 2.4000-2.4835 GHz

Video Transmission

- Video Transmission System

- DJI O3 Enterprise Transmission
- Antenna
 - 4 video transmission antennas, 2T4R
- Max Transmission Distance (unobstructed, free of interference)
 - 20 km (FCC)
 - 8 km (CE/SRRC/MIC)
- Max Transmission Distance (with interference)
 - Low Interference and Obstructed by Buildings: approx. 0-0.5 km
 - Low Interference and Obstructed by Trees: approx. 0.5-3 km
 - Strong Interference and Unobstructed: urban landscape, approx. 1.5-3 km
 - Medium Interference and Unobstructed: suburban landscape, approx. 3-9 km
 - Low Interference and Unobstructed: suburb/seaside, approx. 9-20 km

Measured with FCC compliance in unobstructed environments with typical interference at a flight altitude of approximately 120 m. Data is for reference only. The actual transmission distance may vary depending on the environment's obstruction and interference conditions. Please pay attention to reminders in the app.

Vision System

- Obstacle Sensing Range
 - Forward/Backward/Left/Right: 0.7-40 m
 - Upward/Downward: 0.6-30 m
- FOV
 - Forward/Backward/Downward: 65° (horizontal), 50° (vertical)
 - Left/Right/Upward: 75° (horizontal), 60° (vertical)
- Operating Environment
 - Surfaces with discernible patterns and adequate lighting (lux > 15)

Infrared Sensing System

- Obstacle Sensing Range
 - 0.1-8 m
- FOV
 - 30° (±15°)
- Operating Environment
 - Large, diffuse, and reflective obstacles (reflectivity > 10%)

LED Auxiliary Light

- Effective Illumination Distance
 - 5 m
- Illumination Type
 - 60 Hz, solid glow

FPV Camera

- Resolution
 - 1080p
- FOV
 - 142°
- Frame Rate
 - 30fps

Intelligent Flight Battery

- Model
 - TB65
- Capacity
 - 5880 mAh
- Voltage
 - 44.76 V
- Type
 - Li-ion
- Energy
 - 263.2 Wh
- Weight
 - Approx. 1.35 kg
- Operating Temperature
 - -20° to 50° C (-4° to 122° F)
- Ideal Storage Temperature
 - 22° to 30° C (71.6° to 86° F)
- Charging Temperature
 - -20° to 40° C (-4° to 104° F)

When the ambient temperature is below 5° C (41° F), the battery will trigger the auto-heating function. Charging at low temperatures may reduce battery life. It is recommended to charge at 15° to 35° C (59° to 95° F).

- Charging Time
 - With a 220V power supply, it takes approximately 60 minutes to fully charge two TB65 Intelligent Flight Batteries and approximately 30 minutes to charge them from 20% to 90%.
With a 110V power supply, it takes approximately 70 minutes to fully charge two TB65 Intelligent Flight Batteries and approximately 40 minutes to charge them from 20% to 90%.

Intelligent Battery Station

- Dimensions
 - 580×358×254 mm (L×W×H)
- Net Weight
 - Approx. 8.98 kg
- Compatible Stored Items
 - Eight TB65 Intelligent Flight Batteries
Four WB37 Intelligent Batteries
- Input Voltage
 - 100-120 VAC, 50-60 Hz
220-240 VAC, 50-60 Hz
- Max Input Power
 - 1070 W
- Output Power
 - 100-120 V: 750 W
220-240 V: 992 W
- Operating Temperature
 - -20° to 40° C (-4° to 104° F)