

MATRICE 350 RTK



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

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

GRIDX
metering and control

MATRICE 350 RTK



AIRCRAFT

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

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

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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

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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)

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