MAVERICK DRONES
& Technologies Pvt Ltd

DJI

MATRICE 350 RTK

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Aircraft

Takeoff weight	9.2 kg
Dimensions	Unfolded, propellers excluded, 810×670×430 mm (L×W×H) Folded, propellers included, 430×420×430 mm (L×W×H)
Max Ascent Speed	6 m/s
Max Descent Speed (vertical)	5 m/s
Max Descent Speed (tilt)	7 m/s
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
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	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 Pitch Angle	30°
Max Angular Velocity	Pitch: 300°/s Yaw: 100°/s

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Aircraft

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
Supported DJI Gimbals	Zenmuse H20, Zenmuse H20T, Zenmuse H20N, Zenmuse P1, and Zenmuse L1
Third-Party Payload	Supports only certified payloads developed based on DJI Payload SDK.
Ingress Protection Rating	Ip55
Global Navigation Satellite System	GPS + GLONASS + BeiDou + Galileo
Operating Temperature	-20° to 50° C (-4° to 122° F)

Vision System

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

Infrared ToF Sensing System

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

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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)
Weight	GPS + Galileo + BeiDou
EIRP	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
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
Operating Temperature	-20° to 50° C (-4° to 122° F)
Operating Temperature	2.4000-2.4835 GHz 5.725-5.850 Ghz
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

Intelligent Flight Battery

Name	Tb65
Capacity	5880 mAh
Voltage	44.76 V
Battery Type	Li-ion
Energy	263.2 Wh
Net 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 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%.
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 t emperatures may reduce battery life. It is recommended to charge at 15° to 35° C (59° to 95° F).

Top and bottom auxiliary light

Effective lighting distance	5 m

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Video Transmission

Video Transmission System	DJI O3 Enterprise Transmission
Live View Quality	Remote Controller: 1080p/30fps
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 kmMedium Interference and Unobstructed: suburban landscape, approx. 3-9 kmLow Interference and Unobstructed: suburb/seaside, approx. 9-20 km

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Battery Station

Dimensions	580×358×254 mm (L×W×H)
Net Weight	Approx. 8.98 kg
Maximum Capacity	Eight TB65 Intelligent Flight Batteries Four WB37 Intelligent Batteries
Input	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)

FPV Camera

Resolution	960p
FOV	145°
Frame rate	30 fps

Led auxiliary light

Effective lighting distance	5 m
Illumination Type	60 Hz, solid glow

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