

MATRICE 350 RTK

FULLY POWERED TO FORGED AHEAD



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The Matrice 350 RTK sets a new benchmark for the industry. This next-generation drone platform features an all-new video transmission system and control experience, a more efficient battery system, and more comprehensive safety features, as well as robust payload and expansion capabilities.

AIRCRAFT

Dimensions: 810×670×430 mm [Unfolded, propellers excluded]
430×420×430 mm [Folded, propellers included]

Diagonal Wheelbase: 895 mm

Single Gimbal Damper's Max Payload: 960 g

Operating Frequency:

2.400 GHz - 2.483 GHz
5.150 GHz - 5.250 GHz (CE: 5.150 GHz - 5.250 GHz)
5.725 GHz - 5.850 GHz
5.725 - 5.850 GHz FCC/SRRC

Max Take-off Weight: 9,2 kg

Weight: without batteries ± 3.77 kg
with 2x TB65 batteries ± 6.47 kg

Transmission Power (EIRP):

2.4000 - 2.4835 GHz	< 33 dBm	FCC
	< 20 dBm	CE/SRRC/MIC
5.150 - 5.250 GHz	<23 dBm	CE
5.725 - 5.850 GHz	<33 dBm	FCC/SRRC
	<14 dBm	CE

Hovering Accuracy: (P-mode with GPS)

Vertical: ±0.1 m (Vision System enabled)
±0.5 m (GPS enabled)
±0.1 m (RTK enabled)

RTK Positioning Accuracy: (When RTK enabled and fixed)

1cm + 1ppm Horizontal
1.5cm + 1ppm Vertical

Horizontal: ±0.3 m (Vision System enabled)
±1.5 m (GPS enabled)
±0.1 m (RTK enabled)

Max Angular Velocity: Pitch: 300°/s | Yaw: 100°/s
Max Pitch Angle: 30° N-mode
25° Forward Vision System enabled

Max Ascent Speed: 6 m/s

Max Decent Speed: Vertical: 5 m/s
Tilt: 7 m/s

Max Speed: 23 m/s

Max Wind Resistance: 12 m/s

Max Flight Time: 55 min

Max Flight Altitude: Above Sea Level
5 000 m [with 2110 propellers, take-off weight ≤ 7.4 kg]
7 000 m [with 2112 propellers, take-off weight ≤ 7.2 kg]

Supported DJI Gimbals:
Zenmuse H20 / H20T / H20N / P1 / L1

Supported Gimbal Configurations:
Single Downward Gimbal, Dual Downward Gimbals,
Single Downward + single upward gimbal,
Dual Downward + single upward gimbal

Environmental Rating: IP55
GNSS: GPS+GLONASS+BeiDou+Galileo
Operating Temperature: -20° to 50°C

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

Ingress Protection Rating: IP54

External WB37 Intelligent Battery:

Capacity: 4920 mAh

Voltage: 7.6V

Type: Li-on

Energy: 37.39Wh

Chemical System: LiCoO₂

Built-in battery:

Type: Li-on (6500 mAh @ 7.2 V)

Type: Battery station or USB-C fast charger
max 65W / 20V

Charging time: 2 HRS

Chemical System: LiNiCoAlO₂

Operating Frequency:

2.400 GHz to 2.483 GHz

5.725 GHz to 5.850 GHz

Transmission Power (EIRP):

2.4000 - 2.4835 GHz

5.725 - 5.850 GHz

< 33 dBm

< 20 dBm

< 33 dBm

< 14 dBm

< 23 dBm

FCC

CE/SRRC/MIC

FCC

CE

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 Frequency: 2.4000-2.4835 GHz

Operating Time:

Built-in battery: \pm 3.3 hrs
Built-in battery + Ext battery: \pm 6 hrs

Operating Temperature: -20° to 50°C

VIDEO TRANSMISSION

Video Transmission System: DJI O3 Enterprise Transmission

Antenna: 4 video transmission antennas, 2T4R

Max Transmission Distance

Un-obstructed, free of interference: 20 km (FCC) | 8 km (CE/SRRC/MIC)

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

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 SENSING SYSTEM

Obstacle Sensing Range: 0.1 - 8m

Field of View: 30° ($\pm 15^{\circ}$)

Operating Environment: Large, diffuse and reflective obstacles (reflectivity $> 10\%$)

LED AUXILIARY LIGHT

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

FPV CAMERA

Resolution: 10800p
Field of View: 142°
Frame Rate: 30 fps

INTELLIGENT FLIGHT BATTERY (TB65)

Capacity: 5880 mAh
Battery Type: Li-on
Net Weight: ± 1.35 kg
Charging Time: Using BS65 220V Intelligent Battery Station

Voltage | Energy: 11.76 V | 263.2 Wh
Charging Temperature: -20° to 40°C
Operating Temperature: -20° to 50°C
60 MIN (fully charging two TB65 batteries)
30 MIN (charging two TB65 batteries from 20% to 90%)

INTELLIGENT BATTERY STATION

Dimensions: 580 x358 x 254mm
Compatible Stored Items: TB65 Intelligent Flight Battery × 8
WB37 Intelligent Battery × 4
Input: 220-240 VAC, 50-60 Hz

Net Weight: 8.98kg
Operating Temperature: 20°C to 40°C
Max. Input Power: 1070 W
Output Power: 220-240 V: 992 W