

MATRICE 350 RTK



Fully Powered to Forge Ahead

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 430×420×430 mm	[Unfolded, propellers excluded] [Folded, propellers included]	
Diagonal Wheelbase:	895 mm	Max Take-off Weight:	9,2 kg
Single Gimbal Damper's Max Payload:	960 g	Weight: without batteries	± 3.77 kg
		with 2x TB65 batteries	± 6.47 kg
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	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)		RTK Positioning Accuracy:	(When RTK enabled and fixed)
Vertical:	±0.1 m (Vision System enabled) ±0.5 m (GPS enabled) ±0.1 m (RTK enabled)		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	Supported DJI Gimbals:	
5 000 m	[with 2110 propellers, take-off weight ≤ 7.4 kg]		Zenmuse H20 / H20T / H20N / P1 / L1
7 000 m	[with 2112 propellers, take-off weight ≤ 7.2 kg]		
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)
Charging 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	< 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

Operating Time:

Built-in battery: ± 3.3 hrs
Built-in battery + Ext battery: ±6 hrs

Bluetooth Protocol: Bluetooth 5.1

Bluetooth Frequency: 2.4000-2.4835 GHz

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° (± 15°)

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	Voltage Energy:	11.76 V 263.2 Wh
Battery Type:	Li-on	Charging Temperature:	-20° to 40°C
Net Weight:	± 1.35 kg	Operating Temperature:	-20° to 50°C
Charging Time:	Using BS65 220V Intelligent Battery Station		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	Net Weight:	8.98kg
Compatible Stored Items:	TB65 Intelligent Flight Battery × 8 WB37 Intelligent Battery × 4	Operating Temperature:	-20°C to 40°C
		Max. Input Power:	1070 W
Input:	220-240 VAC, 50-60 Hz	Output Power:	220-240 V: 992 W