

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) 1cm + 1ppm Horizontal 1.5cm + 1ppm Vertical
Vertical:	±0.1 m (Vision System enabled) ±0.5 m (GPS enabled) ±0.1 m (RTK enabled)	Max Angular Velocity:	Pitch: 300°/s Yaw: 100°/s
Horizontal:	±0.3 m (Vision System enabled) ±1.5 m (GPS enabled) ±0.1 m (RTK enabled)	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 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]	Max Flight Time:	55 min
Supported Gimbal Configurations:	Single Downward Gimbal, Dual Downward Gimbals, Single Downward + single upward gimbal, Dual Downward + single upward gimbal	Supported DJI Gimbals:	Zenmuse H20 / H20T / H20N / P1 / L1
		Environmental Rating:	IP55
		GNSS:	GPS+GLONASS+BeiDou+Galileo
		Operating Temperature:	-20° to 50°C

REMOTE CONTROLLER

Screen:	7.02-inch LCD touchscreen		Weight:	Approx. 1.25 kg (without WB37 battery)	
	Resolution: 1920×1200			Approx. 1.42 kg (with WB37 battery)	
	Max brightness: 1200 nits				
Global Navigation Satellite System: GPS+Galileo+BeiDou				Ingress Protection Rating: IP54	
External WB37 Intelligent Battery:				Built-in battery:	
Capacity:	4920 mAh		Type:	Li-on (6500 mAh @ 7.2 V)	
Voltage:	7.6V		Charging Type:	Battery station or USB-C fast charger	
Type:	Li-on			max 65W / 20V	
Energy:	37.39Wh		Charging time:	2 HRS	
Chemical System:	LiCoO2		Chemical System:	LiNiCoAlO2	
Operating Frequency:				Transmission Power (EIRP):	
2.400 GHz to 2.483 GHz				2.4000 - 2.4835 GHz	< 33 dBm FCC
5.725 GHz to 5.850 GHz					< 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 Time:	
Wi-Fi Operating Frequency: 2.4000-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz				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:		FOV:		
Forward/Backward/Left/Right:	0.7-40m	Forward/Backward/Downward:	65° (H) / 50° (V)	
Upward/Downward:	0.6-30m	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