

#### **DJI Matrice 400 UK Specification**

#### DJI Matrice 400

#### **Specifications**

Aircraft	Takeoff Weight (with propellers)	Without Batteries: 5020±20 g With Batteries: 9740±40 g <sup>The actual product weight may vary due to differences in batch materials and external factors. </sup>
Aircraft	Max Takeoff Weight	15.8 kg
Aircraft	Dimensions	Unfolded: 980×760×480 mm (L×W×H) (with landing gear) Folded: 490×490×480 mm (L×W×H) (with landing gear and gimbal) <sup>Maximum dimensions excluding propellers.</sup> Aircraft carrying case dimensions: 779×363×528 mm (L×W×H)
Aircraft	Max Payload	6 kg
Aircraft	Propeller Size	25 inches
Aircraft	Diagonal Wheelbase	1070 mm
Aircraft	Max Ascent Speed	10 m/s
Aircraft	Max Descent Speed	8 m/s
Aircraft	Max Horizontal Speed (at sea level, no wind)	25 m/s
Aircraft	Max Takeoff Altitude	7000 m
Aircraft	Max Flight Time (no wind)	59 minutes <sup>Measured with the aircraft flying forward at a constant speed of 10 m/s in a windless environment at sea level, carrying only the H30T (total weight 10,670 g), and from 100% battery level until 0%. Data is for reference only. Actual experience may vary depending on the environment, usage, and firmware version.</sup>



Aircraft		E2 minutes that the
Aircraft	Max Hover Time (no wind)	53 minutes
		<sup>Measured with the aircraft hovering in a windless environment at sea level, carrying only the H30T (total weight 10,670 g), and from 100% battery level until 0%. Data is for reference only. Actual usage time may vary depending on the flight mode, accessories, and environment.</sup>
Aircraft	Max Flight Distance (no wind)	49 km
		<sup>Measured by the aircraft flying forward at a constant speed of 17 m/s in a windless environment at sea level, without external payloads, and from 100% battery level until 0%. Actual experience may vary depending on the environment, usage, and firmware version.</sup>
Aircraft	Max Wind Speed Resistance	12 m/s
		<sup>Max wind speed resistance during takeoff and landing. </sup>
Aircraft	Max Yaw Angular Velocity	Yaw: 100°/s
Aircraft	Max Pitch Angle	35°
Aircraft	Operating Temperature	-20° to 50° C (-4° to 122° F) (without solar radiation)
Aircraft	Global Navigation Satellite System (GNSS)	GPS + Galileo + BeiDou + GLONASS* <sup>* GLONASS is supported only when the RTK module is enabled. </sup>
		Equipped with standard airborne ADS-B In receiver and dual antennas, supporting reception up to 20 km.
Aircraft	Hovering Accuracy Range (with moderate or no wind)	Vertical: ±0.1 m (with vision positioning) ±0.5 m (with satellite positioning) ±0.1 m (with RTK positioning)
		Horizontal: ±0.3 m (with vision positioning) ±0.5 m (with satellite positioning) ±0.1 m (with RTK positioning)
Aircraft	RTK GNSS Accuracy	RTK Fix: 1 cm + 1 ppm (horizontal), 1.5 cm + 1 ppm (vertical)
Aircraft	RTK Heading	Supports RTK heading with an accuracy better than 2°
Aircraft	Airborne ADS-B In	Equipped with standard airborne ADS-B In receiver and dual antennas, supporting reception up to 20 km.
Aircraft	Internal Storage	N/A
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Aircraft	Ports	USB-C Debug Port × 1: USB 2.0 E-Port V2 × 4: At the lower part of the drone, with 120W single-port power Cellular Dongle 2 Interface × 2: On the underside of the drone
Aircraft	Propeller Model	2510F
Aircraft	Beacon	Built into the aircraft
Aircraft	Ingress Protection Rating	IP55
		<sup>The rating is not permanently effective and may decrease due to product wear and tear.</sup>
Gimbal	Maximum Payload for Single Gimbal	1400 g.
	Connector	<sup> If the payload exceeds 950 g, the gimbal damper lifespan will decrease from 1000 hours to 400 hours.</sup>
Gimbal	Maximum Payload for Dual Gimbal Connector	950 g
Gimbal	Maximum Payload for Third Gimbal Connector	3 kg for quick-release port, 6 kg for screw lock fastening
Sensing	Sensing Type	Omnidirectional binocular vision system (surround view provided by full-color fisheye vision sensors) Horizontal rotating LiDAR, upper LiDAR and downward 3D infrared range sensor Six-direction mmWave radar
Sensing	Forward	Measurement Range: 0.4-21 m Detection Range: 0.4-200 m Field of View (FOV): 90° (horizontal), 90° (vertical)
Sensing	Backward	Measurement Range: 0.4-21 m Detection Range: 0.4-200 m Field of View (FOV): 90° (horizontal), 90° (vertical)
Sensing	Lateral	Measurement Range: 0.6-21 m Detection Range: 0.5-200 m Field of View (FOV): 90° (horizontal), 90° (vertical)
Sensing	Downward	Measurement Range: 0.5-19 m The FOV to the front and rear is 160° and 105° to the right and left.



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Sensing	Operating Environment	Forward, Backward, Left, Right, and Upward: Delicate texture on the surface, adequate light. Downward: The ground has rich textures and sufficient lighting conditions*, with a diffuse reflection surface and a reflectivity greater than 20% (such as walls, trees, people, etc.). <sup>* Sufficient lighting conditions refer to an illuminance not lower than that of a nighttime city light scene.</sup>
Sensing	Rotating LiDAR	Standard Measurement Range: 0.5-100 m @ 100,000 lux with 10% reflectivity target Measurement Range for Power Line: 35 m @ 30° @ 10,000 lux for 21.6 mm steel-core aluminum stranded wire with a relative body tilt angle of 30° to the left and right Field of View (FOV): 360° (horizontal), 58° (vertical) Point-Frequency: 520,000 points/second Laser Wavelength: 905 nm Eye Safety Level: Class 1 (IEC60825- 1:2014), eye-safe
Sensing	Upper LiDAR (3D ToF)	0.5-25 m at night (reflectivity > 10%) The FOV to the up and down is 60° and 60° to the right and left.
Sensing	Downward 3D Infrared Range Sensor	Measurement Range: 0.3-8 m (reflectivity > 10%) The FOV to the front and rear is 60° and 60° to the right and left.
Sensing	mmWave Radar	Measurement Range for Power Line: 36 m for a 12.5mm steel-core aluminum stranded wire 50 m for a 21.6mm steel-core aluminum stranded wire FOV: ± 45° (horizontal and vertical) <sup>The mmWave radar function is unavailable in some countries/regions.</sup>
FPV Camera	Resolution	1080p
FPV Camera	Field of View (FOV)	DFOV: 150° HFOV: 139.6° VFOV: 95.3°
FPV Camera	Frame Rate	30fps
FPV Camera	Night Vision	Starlight Grade



Video Transmission System	DJI O4 Enterprise Enhanced Video Transmission System
Live View Quality	Remote Controller: 3-channel 1080p/30fps
Operating Frequency and Transmitter Power (EIRP)	902-928 MHz: < 30 dBm (FCC), < 16 dBm (MIC) 1.430-1.444 GHz: < 35 dBm (SRRC) 2.4000-2.4835 GHz: < 33 dBm (FCC), < 20 dBm (CE/SRRC/MIC) 5.150-5.250 GHz: < 23 dBm (FCC/CE) 5.725-5.850 GHz: < 33 dBm (FCC), < 14 dBm (CE), < 30 dBm (SRRC) <sup>Operating frequency allowed varies among countries and regions. Refer to local laws and regulations for more information.</sup>
Max Transmission Distance (unobstructed, free of interference)	40 km (FCC) 20 km (CE/SRRC/MIC)
	<sup>Measured in an unobstructed environment free of interference. The above data shows the farthest communication range for one-way, non- return flights under each standard. During your flight, please pay attention to RTH reminder on the DJI Pilot 2 app.</sup>
Max Transmission Distance (with interference)	Strong interference (dense buildings, residential areas, etc.): approx. 1.5-6 km br> Medium interference (suburban counties, city parks, etc.): approx. 6-15 km 
	actual flight distance.
Max Download Speed	Standard Mode: 80Mbps Downlink Playback Download: < 25 MBps Single-Channel Bitrate: ≤ 12 Mbps
	<sup>The above data was measured under conditions where the aircraft and remote controller were in close proximity without interference.</sup>
Antenna	WLAN Antenna × 8: 6 vertically polarized antennas and 2 horizontally polarized antennas sub2G Antenna × 2: 2 vertically polarized antennas 4G Antenna × 4 Operating Mode: 2T4R
	Operating Frequency and Transmitter         Power (EIRP)         Max Transmission Distance (unobstructed, free of interference)         Max Transmission Distance (with interference)         Max Transmission Distance (with interference)         Max Download Speed



Video Transmission	Others	Supports Dual Control Mode and 2- channel Cellular Dongle 2
Battery	Model	TB100
Battery	Capacity	20254 mAh
Battery	Standard Voltage	48.23 V
Battery	Max Charging Voltage	54.6 V
Battery	Cell Туре	Li-ion 13S
Battery	Energy	977 Wh
Battery	Weight	4720 ± 20 g
Battery	Charging Temperature	5° to 45° C (41° to 113° F)
Battery	Discharging Temperature	-20° to 75° C (-4° to 122° F)
Battery	Battery Heating	Single Battery: Support Onboard: Support Battery Station: Support
Battery	Discharge Rate	4C
Battery	Max Charging Power	2C
Battery	Low-Temperature Charging	Supports low-temperature self-heating charging
Battery	Cycle Count	400
Intelligent Battery Station	Model	BS100
Intelligent Battery Station	Net Weight	11.8 kg
Intelligent Battery Station	Dimensions	605×410×250 mm (L×W×H)
Intelligent Battery Station	Supported Batteries	TB100 Intelligent Flight Battery, TB100C Tethered Battery WB37 Battery
Intelligent Battery Station	Operating Temperature	-20° to 40° C (-4° to 104° F)
Intelligent Battery Station	Input	100-240 V (AC), 50-60 Hz, 10 A
Intelligent Battery Station	Output	USB-C : TB100 Battery Interface: 100-110 V: Approx. 1185 W 110-180 V: Approx.1474 W 180-240 V: Approx. 2184 W WB37 Battery Interface: 100-240 V: Approx. 52 W USB-C: 5.0 V 3.0 A, 9.0 V 3.0 A, 12.0 V 3.0 A,
Intelligent Battery Station Intelligent Battery Station	Number of Charging Channels Charging Mode	15.0 V 3.0 A, 20.0 V 3.25 A Three TB100 and two WB37 batteries Ready-to-Fly Mode 90%; Standard Mode 100% Supports Fast Charging Mode and Silent Mode



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Intelligent Battery Station	Charging Time	TB100/TB100C Battery From 0% to 100%: 220 V: 45 minutes (Fast Charging Mode); 110 minutes (Silent Mode) 110 V: 70 minutes (Fast Charging Mode); 110 minutes (Silent Mode) < <sup>Charging time is measured in a</sup>
		test environment with a temperature of 25° C.
DJI RC Plus 2 Enterprise Enhanced	Video Transmission System	DJI O4 Enterprise Enhanced Video Transmission System
DJI RC Plus 2 Enterprise Enhanced	Max Transmission Distance (unobstructed, free of interference)	40 km (FCC) 20 km (CE/SRRC/MIC)
		<sup>Measured in an unobstructed environment free of interference. The above data shows the farthest communication range for one-way, non- return flights under each standard. During your flight, please pay attention to RTH reminder on the DJI Pilot 2 app.</sup>
DJI RC Plus 2 Enterprise Enhanced	Video Transmission Operating Frequency and Transmitter Power (EIRP)	902-928 MHz: < 30 dBm (FCC), < 16 dBm (MIC) 1.430-1.444 GHz: < 35 dBm (SRRC) 2.400-2.4835 GHz: < 33 dBm (FCC), < 20 dBm (CE/SRRC/MIC) 5.150-5.250 GHz: < 23 dBm (FCC/CE) 5.725-5.850 GHz: < 33 dBm (FCC), < 14 dBm (CE), < 30 dBm (SRRC) <sup>Operating frequency allowed varies among countries and regions. Refer to local laws and regulations for more information. </sup>
DJI RC Plus 2 Enterprise Enhanced	Antenna	2T4R, 2.4GHz/5.8GHz multi-beam high- gain antenna sub2G Module: 2T2R
DJI RC Plus 2 Enterprise Enhanced	Enhanced Transmission	Supports DJI Cellular Dongle 2
DJI RC Plus 2 Enterprise Enhanced	Wi-Fi Protocol	Wi-Fi Direct, Wireless Display, IEEE 802.11 a/b/n/ac/ax Supports 2×2 MIMO Wi-Fi, dual-band simultaneous (DBS) support for dual MAC, with data rates up to 1774.5 Mbps (2×2 + 2×2 11ax dual-band simultaneous)
DJI RC Plus 2 Enterprise Enhanced	Wi-Fi Operating Frequency	2.4000-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz <sup>5.2 and 5.8GHz frequencies are prohibited in some countries. In some countries, the 5.2GHz frequency is only</sup>
		allowed for use in indoor.



DJI RC Plus 2 Enterprise Enhanced	Wi-Fi Transmitter Power (EIRP)	2.4 GHz: < 26 dBm, < 20 dBm (CE/SRRC/MIC) 5.1 GHz: < 23 dBm (FCC/CE/SRRC/MIC) 5.8 GHz: < 23 dBm (FCC/SRRC), < 14 dBm (CE)
DJI RC Plus 2 Enterprise Enhanced	Bluetooth Protocol	Bluetooth 5.2
DJI RC Plus 2 Enterprise Enhanced	Bluetooth Operating Frequency	2.400-2.4835 GHz
DJI RC Plus 2 Enterprise Enhanced	Bluetooth Transmitter Power (EIRP)	< 10 dBm
DJI RC Plus 2 Enterprise Enhanced	Screen Resolution	1920 × 1200
DJI RC Plus 2 Enterprise Enhanced	Screen Size	7.02 inches
DJI RC Plus 2 Enterprise Enhanced	Screen Frame Rate	60fps
DJI RC Plus 2 Enterprise Enhanced	Brightness	1400 nits
DJI RC Plus 2 Enterprise Enhanced	Touchscreen Control	10-Point Multi-Touch
DJI RC Plus 2 Enterprise Enhanced	Built-in Battery	2S2P High Energy Density 18650 Lithium-ion Battery (6500 mAh @ 7.2 V) 46.8 Wh
DJI RC Plus 2 Enterprise Enhanced	External Battery	Optional, WB37 (4920 mAh @ 7.6 V) 37 Wh
DJI RC Plus 2 Enterprise Enhanced	Charging Type	Supports PD fast charging, with a maximum 20V/3.25A USB Type-C charger
DJI RC Plus 2 Enterprise Enhanced	Storage Capacity	RAM 8G + ROM 128G UFS + expandable storage via microSD card
DJI RC Plus 2 Enterprise Enhanced	Charging Time	2 hours for internal battery; 2 hours for internal plus external batteries. > <sup>When remote controller is powered off and using a standard DJI charger.</sup>
DJI RC Plus 2 Enterprise Enhanced	Internal Battery Runtime	3.8 hours
DJI RC Plus 2 Enterprise Enhanced	External Battery Runtime	3.2 hours
DJI RC Plus 2 Enterprise Enhanced	Output Port	HDMI 1.4
DJI RC Plus 2 Enterprise Enhanced	Indicators	Status LED, battery level LED, connection status LED, tricolor light, brightness adjustable according to ambient light
DJI RC Plus 2 Enterprise Enhanced	Speaker	Supports buzzer
DJI RC Plus 2 Enterprise Enhanced	Audio	Array MIC
DJI RC Plus 2 Enterprise Enhanced	Operating Temperature	-20° to 50° C (-4° to 122° F)



DJI RC Plus 2	Storage Temperature	Within one month: -30° to 45° C (-22° to
Enterprise Enhanced		140° F) One to three months: -30° to 35° C (-22°
		to 113° F) br>
		Three months to one year: -30° to 30° C
	Observices Transmission	(-22° to 86° F)
DJI RC Plus 2 Enterprise Enhanced	Charging Temperature	5° to 40° C (41° to 104° F)
DJI RC Plus 2	Supported Aircraft Model	Matrice 400
Enterprise Enhanced		
DJI RC Plus 2	Global Navigation Satellite System	GPS + Galileo + BeiDou
Enterprise Enhanced		
DJI RC Plus 2	Dimensions	268×163×94.5 mm (L×W×H)
Enterprise Enhanced	Dimensions	200^103^94.5 mm (L^WAT)~DI~~DI~
		<sup>Width including external antenna</sup>
		folded, thickness including handle and
		controller sticks.
DJI RC Plus 2	Weight	1.15 kg (without external battery)
Enterprise Enhanced		
DJI RC Plus 2	Model	TKPL 2
Enterprise Enhanced		
DJI RC Plus 2 Enterprise Enhanced	System Version	Android 11
Entorprioo Ennanood		
DJI RC Plus 2	External Interfaces	HDMI 1.4, SD 3.0, USB-C with OTG
Enterprise Enhanced		support, max 65W PD charging, USB-A with USB 2.0 support
DJI RC Plus 2	Accessories	Strap/waist support
Enterprise Enhanced		
Supported Products	DJI Products Compatible With Matrice 400	Gimbal Cameras: Zenmuse H30,
		Zenmuse H30T, Zenmuse L2 and
		Zenmuse P1 br>
		Accessories: Zenmuse S1 (drone spotlight), Zenmuse V1 (drone speaker),
		Manifold 3, DJI RC Plus 2 sub2G SDR
		Module, DJI Cellular Dongle 2
		RTK Station: D-RTK 3 Multifunctional
		Station, D-RTK 2 Mobile Station Ecosystem Accessories: DJI X-Port
		DJI E-Port V2 Development Kit
		DJI E-Port V2 Coaxial Cable Kit br>
		DJI SKYPORT V3 Adapter Set DJI SKYPORT V3 Coaxial Cable Kit