

DJI Matrice 210 RTK

Merit Technologies Sdn Bhd

AIRCRAFT

Model	Matrice 210 RTK
Package Dimension	31.1×15.4×11.4inch (790×390×290mm)
Dimension (unfolded)	34.9×34.6×16.1 inch (Unfolded, 887×880×408 mm)
Dimension (folded)	28.2×9.5×9.3 inch (Folded, 716×242×236 mm)
Folding Method	Folded Inward
Diagonal Wheelbase	25.3 inch (643 mm)
Number of Batteries	Two (TB50s and TB55s)
Weight (TB50)	Approx. 4.27 kg
Weight (TB55)	Approx. 5 kg
Max Takeoff Weight	6.14 kg
Max Payload (2 TB50)	Approx.1.87 kg (with two standard batteries)
Max Payload (2 TB55)	Approx.1.14 kg (with two optional batteries)
Hovering Accuracy (P-mode with GPS)	Vertical: ±1.64 feet (0.5 m) or ±0.33 feet (0.1 m, Downward Vision System enabled) Horizontal: ±4.92 feet (1.5 m) or ±0.98 feet (0.3 m, Downward Vision System enabled)
Max Angular Velocity	Pitch: 300°/s, Yaw: 150°/s
Max Pitch Angle	P Mode: 35° (Forward Vision System enabled: 25°) ; A Mode: 35° ; S Mode: 35°
P Mode: 35° (Forward Vision System enabled: 25°) ; A Mode: 35° ; S Mode: 35°	16.4 ft/s (5 m/s)
Max Descent Speed	Vertical: 9.8 ft/s (3 m/s)
Max Speed	P-mode: 61 kph (17 m/s); S-mode/A-mode: 83 kph (23 m/s)
Max Service Ceiling Above Sea Level	1.55 miles (2500 m)
Max Wind Resistance	32.8 ft/s (10 m/s)
Max Flight Time(No Payload, with TB50)	23min
Max Flight Time(No Payload, with TB55)	32min
Max Flight Time(Full Payload, with TB50)	13min
Max Flight Time(Full Payload, with TB55)	24min
Motor Model	DJI 3515
Propeller Model	1760S
Retractable Landing Gear	Standard
Operating Temperature	-4° to 113° F (-20° to 45° C)
IP Rating	IP 43

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GIMBAL INSTALLATION

Downward Gimbal Mount	Supported
Upward Gimbal Mount	Supported
Downward Dual Gimbal	Supported

BATTERY (STANDARD)

Model	DJI TB50
Capacity	4280 mAh
Voltage	22.8V
Battery Type	LiPo 6S
Energy	97.85 Wh
Net Weight	Approx. 520g
Operating Temperature	-4° to 113° F (-20° to 45° C)
Storage Temperature	Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: 72° to 82° F (22° to 28° C)
Charging Temperature	41° to 104° F (5° to 40° C)
Max Charging Power	180 W

CHARGER

Model	IN2C180
Voltage	26.1 V
Rated Power	180 W

FORWARD VISION SYSTEM

Obstacle Sensing Range	0.7 - 30 m
Field Of View	Horizontal 60°, Vertical 54°
Operating Environment	Surfaces with clear patterns and adequate lighting (> 15 lux)

DOWNWARD VISION SYSTEM

Velocity Range	<32.8 ft/s (10 m/s) at height of 6.56 feet (2 m)
Altitude Range	<32.8 feet (10 m)
Operating Range	<32.8 feet (10 m)
Operating Environment	Surfaces with clear patterns and adequate lighting (> 15 lux)
Surfaces with clear patterns and adequate lighting (> 15 lux)	0.33-16.4 feet (10-500 cm)
Ultrasonic Sensor Operating Environment	Non-absorbing material, rigid surface (thick indoor carpeting will reduce performance)

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GIMBALS

Compatible Gimbals	Zenmuse X4S Zenmuse X5S Zenmuse Z30 Zenmuse XT
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UPWARD INFRARED SENSOR

Obstacle Sensing Range	0-16.4 feet (0-5 m)
Field Of View	± 5 °
Operating Environment	Large-sized object with diffuse reflecting surface or high reflective rate (>10%)

REMOTE CONTROLLER

Model	GL6D10A
Operating Frequency	2.400-2.483 GHz 5.725-5.850 GHz
Max Transmitting Distance(unobstructed, free of interference)	2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC) 5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC)
.EIRP	2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC) 5.8 GHz: 28 dBm (FCC); 14 dBm (CE); 20 dBm (SRRC)
Video Output Ports	USB, HDMI
Power Supply	Built-in battery
Charging	DJI charger
Dual User Capability	Host-and-Slave connection
Mobile Device Holder	Tablet or Smart Phone
Max Mobile Device Width	170 mm
Output Power	9 W (Without supplying power to smart device)
Operating Temperature	-4° to 104° F (-20° to 40° C)
Storage Temperature	Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: 72° to 82° F (22° to 28° C)
Charging Temperature	32° to 104° F (0° to 40° C)
Battery	6000mAh 2S LiPo
USB Supply Power	iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)

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BATTERY (OPTIONAL)

Model	DJI TB55
Capacity	7660 mAh
Voltage	22.8V
Battery Type	LiPo 6S
Energy	176.93Wh
Net Weight	885 g
Operating Temperature	-20°C to 45° C
Storage Temperature	Less than 3 months: -20° C to 45° C More than 3 months: 22° C to 28° C
Charging Temperature	41° to 104° F (5° to 40° C)
Max Charging Power	180 W