

MATRICE 300 RTK A New Standard for the Commercial Drone Industry

The Matrice 300 RTK is DJI's latest commercial drone platform that takes inspiration from modern aviation systems. Offering up to 55 minutes of flight time, advanced AI capabilities, 6 Directional Sensing & Positioning and more, the M300 RTK sets a whole standard by combining intelligence with high-performance and unrivaled reliability.

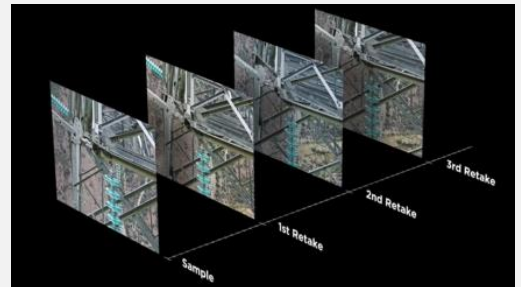


AI Spot-Check Automate routine inspections and capture consistent results every time. Onboard AI recognizes the subject of interest and identifies it in subsequent automated missions to ensure consistent framing.



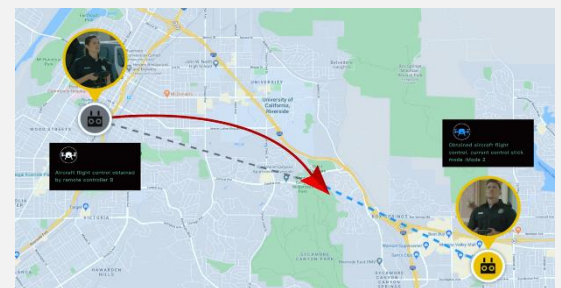
Smart Track

Identify and follow moving subjects like people, vehicles, and boats with the Smart Track function, where auto-zoom is applied for steady tracking and viewing. The subject's dynamic location is continuously acquired and shared to another remote controller or to DJI FlightHub.



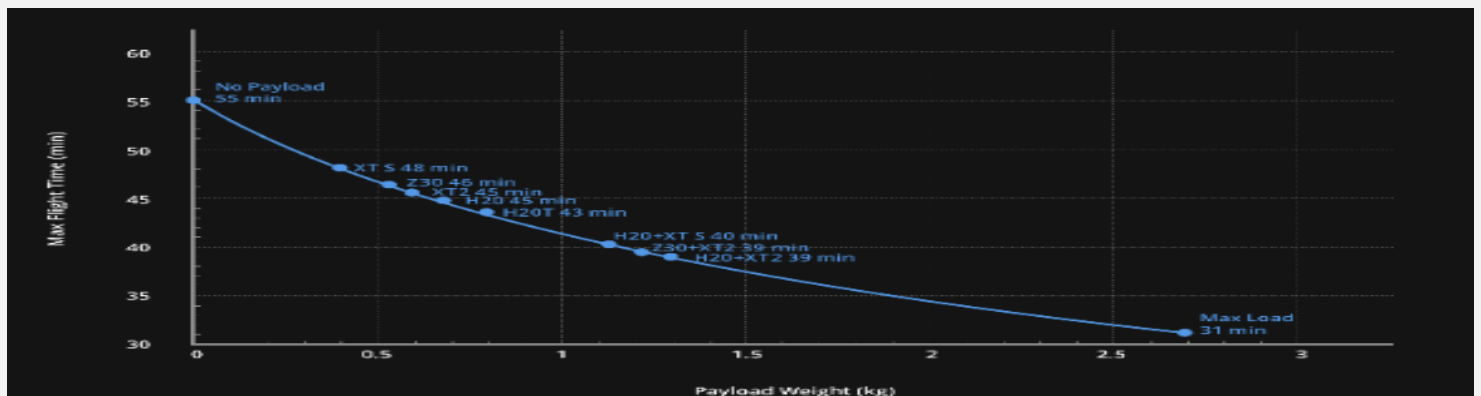
Advance Dual Controller

Either operator can now obtain control of the aircraft or payload with a single tap. This creates new possibilities for mission strategies as well as higher flexibility during operations.



Flight Time

Estimate your M300 RTK's flight time based on the payload configuration.



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AIRCRAFT

Model M210 RTK
 Dimensions(Unfolded) 810x670x430 mm
 Dimensions(Folded) 430x420x430 mm
 Diagonal Wheelbase 895 mm
 Number Of Batteries 2
 Weight (With Single downward gimbal, 2 TB60) Approx. 6.3 kg
 Max Takeoff Weight 9 kg
 Max Payload 2.7 kg

Operating Frequency and EIRP..... 2.4000-2.4835 GHz
 29.5 dBm (FCC); 18.5dBm (CE)
 18.5 dBm (SRRC); 18.5dBm(MIC)

5.725-5.850 GHz
 28.5 dBm (FCC); 12.5dBm (CE)
 28.5 dBm (SRRC)

Hovering Accuracy(P-Mode With GPS) ... Vertical
 ± 0.1 m (Vision System enable)
 ± 0.5 m (GPS enable)
 ± 0.1 m, (RTK enabled)
 Horizontal
 ±0.3 m (Vision System enabled)
 ±1.5 m (GPS Enable)
 ±0.1 m (RTK enabled)

RTK Positioning Accuracy When RTK enabled and Fixed:
 1 cm+1 ppm (Horizontal)
 1.5 cm+1 ppm (Vertical)

Max Angular Velocity Pitch: 300°/s, Yaw: 100°/s
 Max Pitch Angle 30° (Forward Vision System enabled: 25°)
 Max Ascent Speed S mode: 6 m/s, P mode: 5 m/s
 Max Descent Speed (vertical) S mode: 5 m/s, P mode: 3 m/s
 Max Descent Speed (tilt) S Mode 7 m/s
 Max Speed S mode: 23 m/s, P mode: 17 m/s
 Max Service Ceiling Above Sea Level 5000 m

(with 2110 propellers, takeoff weight ≤ 7kg)
 7000 m (with 2195 propellers, takeoff weight ≤ 7kg)

Max Wind Resistance15 m/s
 Max Flight Time 55 min
 Supported DJI Gimbals Zenmuse XT2/Z30/H20/H20T
 Supported Gimbals Single/Dual Downward Gimbals
 Single Upward Gimbal
 Upward and Downward Gimbals
 Triple Gimbals

GNSS GPS+GLONASS+BeiDOU+Galileo
 Operating Temperature 20° to 50° C
 IP Rating IP45

Vision System

Obstacle Sensing Range Forward/Backward/Left/Right: (0.7-40m)
 Upward/Downward: 0.6-30m
 FOV Forward/Backward/Downward: 65°(H) to 50°(V)
 Left/Right/UPward: 75°(H) to 60°(V)
 Operating Environment Surface with clear pattern and adequate lighting (>15lux)

Infrared Top Sensing System

Obstacle sensing range 0.1-8m
 FOV 30° (±15°)
 Operating Environment Large, diffuse and reflective obstacles (reflectivity >10%)

Top and Bottom Auxiliary Light

Effective lightning distance 5 m

FPV Camera

Resolution 960 p
 FOV 145°
 Frame rate..... 30 fps

Remote Controller

Operating Frequency/ EIRP 2.4000-2.4835 GHz
 29.5 dBm (FCC); 18.5dBm (CE)
 18.5 dBm (SRRC); 18.5dBm(MIC)

5.725-5.850 GHz
 28.5 dBm (FCC); 12.5dBm (CE)
 20.5 dBm (SRRC)

Max Transmitting Distance(unobstructed, free of interference)
 NCC/FCC: 15km; CE/MIC: 8km; SRRC: 8km)

External Battery Model : WB37-4920mAh-7.6V
 Built-in battery Lithium ion 5000 mAh @ 7.2 V
 Operating Temperature -20° to 40° C

Intelligent Flight Battery (TB60)

Capacity 5935 mAh
 Voltage 52.8V
 Battery Type LiPo 12S
 Energy 274 Wh
 Net Weight Approx. 1.35g
 Operating Temperature -20° to 50° C
 Charging Temperature -20° to 40° C
 Max Charging Power 180 W

BS60 Intelligent Battery Station

Maximum capacity TB60x8, WB37x4
 Max Input Power 1070W
 Output Power 100-120 V: 750 W, 220-240 V: 992W