

MATRICE 300 RTK



AIRCRAFT

Dimensions

Unfolded, propellers excluded, 810×670×430 mm
(L×W×H)

Folded, propellers included, 430×420×430 mm
(L×W×H)

Diagonal Wheelbase

895 mm

Weight (with single downward gimbal)

Approx. 3.6 kg (without batteries)

Approx. 6.3 kg (with two TB60 batteries)

Single Gimbal Damper's Max Payload

930g

Max Takeoff Weight

9 kg

Operating Frequency

2.4000-2.4835 GHz

5.725-5.850 GHz

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 enabled)

±0.5 m (GPS enabled)

±0.1 m (RTK enabled)

Horizontal:

±0.3 m (Vision System enabled)

±1.5 m (GPS enabled)

±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° (P-mode, 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: 4 m/s

Max Descent Speed (tilt)

S Mode: 7 m/s

Max Speed

S mode: 23 m/s

P mode: 17 m/s

Service Ceiling Above Sea Level

5000 m (with 2110 propellers, takeoff weight ≤ 7 kg) / 7000 m (with 2195 propellers, takeoff weight ≤ 7 kg)

Max Wind Resistance

12 m/s

Max Flight Time

55 min

GRIDX
metering and control

MATRICE 300 RTK



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Supported DJI Gimbals

Zenmuse XT2/XT S/Z30/H20/H20T/DJI P1/DJI L1

Supported Gimbal Configurations

Single Downward Gimbal, Dual Downward Gimbals, Single Upward Gimbal, Upward and Downward Gimbals, Triple Gimbals

Ingress Protection Rating

IP45

GNSS

GPS+GLONASS+BeiDou+Galileo

Operating Temperature

-20°C to 50°C (-4°F to 122° F)

REMOTE CONTROLLER

Operating Frequency

2.4000-2.4835 GHz

5.725-5.850 GHz

Max Transmitting Distance (unobstructed, free of interference)

NCC/FCC: 15 km

CE/MIC: 8 km

SRRC: 8 km

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)

External battery

Name: WB37 Intelligent Battery

Capacity: 4920 mAh

Voltage: 7.6V

Type: LiPo

Energy: 37.39Wh

Charging time (using BS60 Intelligent Battery Station): 70 minutes (15°C to 45°C); 130 minutes (0°C to 15°C)

Built-in battery

Type: 18650 lithium ion battery (5000 mAh @ 7.2 V)

Charging: Use a USB charger with specification of 12V / 2A

Rated power: 17 W

Charging time: 2 hours and 15 minutes (Using a USB charger with specification of 12V / 2A)

Battery Life

Built-in battery: Approx. 2.5h

Built-in battery+External battery: Approx. 4.5h

USB Power Supply

5 V / 1.5 A

Operating Temperature

-20°C to 40°C (-4 °F to 104 °F)

GRIDX
metering and control