ENTERPRISE DATA SHEET

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 and sets a whole new standard, by combining intelligence with high-performance and unrivalled reliability.

AIRCRAFT

Dimensions: 810×670×430 mm [Unfolded, propellers excluded]
430×420×430 mm [Folded, propellers included]

Diagonal Wheelbase: 895 mm
Max Payload: 2.7 kg

Max Take-off Weight: 9 kg
Weight: without batteries ± 3.6 kg
with 2x TB60 batteries ± 6.3 kg

Operating Frequency:
2.400 GHz - 2.483 GHz (Europe, Japan, Korea)
5.725 GHz - 5.850 GHz (United States, China)

Transmission Power (EIRP):

2.4000 - 2.4835 GHz	29.5 dBm	FCC
	18.5 dBm	CE/SRRC/MIC
5.725 - 5.850 GHz	28.5 dBm	FCC/SRRC
	12.5 dBm	CE

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)
1cm + 1ppm Horizontal
1.5cm + 1ppm Vertical

Max Angular Velocity: Pitch: 300°/s | Yaw: 100°/s
Max Pitch Angle: 30° P-mode
25° Forward Vision System enabled

Max Ascent Speed: S mode: 6 m/s
P mode: 5 m/s

Max Decent Speed: Vertical S mode: 5 m/s
P mode: 3 m/s
Tilt S mode: 7 m/s

Max Speed: S mode: 23 m/s
P mode: 17 m/s

Max Wind Resistance: 15 m/s
Max Flight Time: 55 min

Max Service Ceiling: Above Sea Level
5 000 m [with 2110 propellers, take-off weight ≤ 7 kg]
7 000 m [with 2195 propellers, take-off weight ≤ 7 kg]

Supported DJI Gimbals:
Zenmuse XT2/XTS/Z30/H20/H20T

Supported Gimbal Configurations:
Single Downward Gimbal, Dual Downward Gimbals, Single Upward Gimbal, Upward & Downward Gimbals, Triple Gimbals

Environmental Rating: IP43
GNSS: GPS+GLONASS+BeiDou+Galileo
Operating Temperature: -20° to 50°C

REMOTE CONTROLLER

Operating Frequency:
2.400 GHz to 2.483 GHz (Europe, Japan, Korea)
5.725 GHz to 5.850 GHz (United States, China)

Max Transmission Distance:

NCC/FCC:	15 km
CE / MIC:	8 km
SRRC:	8 km

External battery:

Name:	WB37 Intelligent Battery
Capacity:	4920 mAh
Voltage:	7.6V
Type:	LiPo
Energy:	37.39Wh
Charging time:	
With 12V/2A USB Charger -	70 MIN (15°C to 45°C)
With BS60 Battery Station -	130 MIN (0°C to 15°C)

Transmission Power (EIRP):

2.4000 - 2.4835 GHz	29.5 dBm	FCC
	18.5 dBm	CE/SRRC/MIC
5.725 - 5.850 GHz	28.5 dBm	FCC
	12.5 dBm	CE
	20.5 dBm	SRRC

Battery Life:

Built-in battery:	± 2.5h
Built-in battery + Ext battery:	±4.5h

Built-in battery:

Type:	18650 lithium-ion (5000 mAh @ 7.2 V)
Charging:	12V/2A USB Charger
Rated power:	17 W
Charging time:	2 HRS 15 MIN
USB Power Supply:	5V / 1.5A
Operating Temperature:	-20° to 40°C

VISION SYSTEM

Obstacle Sensing Range:

Forward/Backward/Left/Right:	0.7-40m
Upward/Downward:	0.6-30m

FOV:

Forward/Backward/Downward:	65° (H) / 50° (V)
Left/Right/Upward:	75° (H) / 60° (V)

Operating Environment: Surfaces with clear patterns and adequate lighting (> 15 lux)

INFRARED TOF SENSING SYSTEM

Obstacle Sensing Range: 0.1 - 8m
Field of View: 30° (± 15°)
Operating Environment: Large, diffuse and reflective obstacles (reflectivity >10%)

TOP AND BOTTOM AUXILIARY LIGHT

Effective lighting distance: 5 m

FPV CAMERA

Resolution: 960p
Field of View: 145°
Frame Rate: 30 fps

INTELLIGENT FLIGHT BATTERY (TB60)

Capacity: 5935 mAh
Battery Type: LiPo 12S
Net Weight: ± 1.35 kg
Voltage | Energy: 52.8 V | 274 Wh
Charging Temperature: -20° to 40°C
Operating Temperature: -20° to 50°C

Charging Time: Using BS60 220V Intelligent Battery Station - 60 MIN (fully charging two TB60 batteries)
30 MIN (charging two TB60 batteries from 20% to 90%)

BS60 INTELLIGENT BATTERY STATION

Dimensions: 501 x403 x 252mm
Maximum Capacity: TB60 Intelligent Flight Battery × 8
WB37 Intelligent Battery × 4
Input: 220-240 VAC, 50-60 Hz
Net Weight: 8.37kg
Operating Temperature: -20°C to 40°C
Max. Input Power: 1070 W
Output Power: 220-240 V: 992 W