

RPAS Technical Specification

Version Number:	02
Effective Date:	31 August 2021

Technical Description & Performance Limitations of Matrice 300 RTK Fleet

RPAS Technical Description		
Airframe Type	MULTIROTOR	
Manufacturer	DJI	
Model of RPA	Matrice 300 RTK	
Model of Rt 7t	Unfolded, propellers excluded – 810 x 670 x 430 mm	
Span / Diameter	Folded, propellers included – 430 x 420 x 430 mm	
Maximum Take-Off Mass (kg)	9 kg	
Propulsion Type	Electric Brushless Motor	
Number of Motors	4 Motors	
Flight Battery	DJI Smart Battery - TB60	
Flight Control System (Autopilot)	DJI Flight Control System	
Software / Firmware	Aircraft Firmware (Matrice 300RTK)	
Transmitter	OcuSync Enterprise	
Receiver	OcuSync Enterprise OcuSync Enterprise	
Receiver		
RPA Control Frequency	2.400-2.4835 GHz	
Domesta Dilat Otation (DDC)	5.725-5.850 GHz	
Remote Pilot Station (RPS)	DJI Smart Controller Enterprise	
Remote Pilot Station Software DJI Pilot App		
RPAS Performance Characteristics		
A less	5000 m (with 2110 Propellers, and take-off weight ≤ 7kg)	
Max Altitude	7000 m (with 2195 High Altitude Low Noise Propellers,	
NA Fadanaaa	and take-off weight ≤ 7kg	
Max Endurance	55 minutes	
May Dange	NCC /FCC: 15 km	
lax Range	CE / MIC: 8 km	
	SRRC: 8 km	
Airspeed	82.8 km/h (23 m/s) (S-Mode)	
May Assent Speed	61.2 km/h (17 m/s) (P-Mode) 6 m/s	
Max Ascent Speed		
Max Descent Speed 7 m/s		
Max Pitch Angle	30° (P-mode and Forward Vision System enabled: 25°)	
RPAS Performance Limitations		
Max Wind Resistance	15 m/s	
	Turbulence and wind speed up to 15m/s won't trouble the	
Touloulana and the C	M300 RTK thanks to its inverted propeller design, its	
Turbulence restrictions	powerful motors, and its optimized FC and ESC	
	algorithms.	
	Do not use the aircraft in severe weather conditions.	
linimum visibilities Conditions	These include wind speeds exceeding 15 m/s, snow, rain	
	and fog	
Outside air temp	-20° to 45°C	
1	Do not use the aircraft in severe weather conditions.	
In-flight Icing	These include wind speeds exceeding 10m/s, snow,	
	severe rain and temperature below -20°.	

Specification Sheet: Version 02