Technical Description & Performance Limitations of Matrice 30 Series

RPAS Technical Description	
Airframe Type	MULTIROTOR
Manufacturer	DJI
Model of RPA	Matrice 30 Series
Span / Diameter	Unfolded, propellers excluded – 470 x 585 x 215 mm Folded, propellers included – 365 x 215 x 195 mm
Maximum Take-Off Mass (kg)	3.998 kg
Propulsion Type	Electric Brushless Motor
Number of Motors	4 Motors
Flight Battery	TB30 Intelligent Battery
Flight Control System (Autopilot)	DJI Flight Control System
Software / Firmware	Aircraft Firmware (Matrice 30)
Transmitter	OcuSync 3 Enterprise
Receiver	OcuSync 3 Enterprise
RPA Control Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
Remote Pilot Station (RPS)	DJI RC Plus Remote Controller
Remote Pilot Station Software	DJI Pilot 2 App
RPAS Performance Characteristics	
Max Altitude	5000 m (with 1671 Propellers) 7000 m (with 1676 Propellers)
Max Endurance	41 min
Max Range	FCC: 15 km CE / MIC: 8 km SRRC: 8 km
Max Horizontal Speed	82 km/h
Max Ascent Speed	21 km/h
Max Descent Speed	18 km/h
Max Tilt Angle	35º (N-mode and forward vision system enabled: 25º)
RPAS Performance Limitations	
Max Wind Resistance	54 km/h
Turbulence restrictions	Turbulence and wind speed up to 15 m/s won't trouble the M30 series thanks to the 1671 or 1676 propellers design, its powerful motors.
Minimum visibilities Conditions	Do not use the aircraft in severe weather conditions. These include wind speeds exceeding 15 m/s, snow, rain, fog, hail, lightning, tornadoes, hurricanes, and other weather with low visibility.
Outside air temp	-20° to 50°C
In-flight Icing	Do not use the aircraft in severe weather conditions. These include wind speeds exceeding 15m/s, snow, severe rain and temperature below -20° or above 50º.