

# ExynAero™

## SYSTEM SPECIFICATIONS



### AERIAL ROBOT

Airframe Model	DJI M210v2
Weight (incl. battery)	6.7 kg
Assembled Size (H x W x L)	883 x 886 x 520 mm
Disassembled Size (H x W x L)	722 x 282 x 380 mm
Operating Temperature	-20° to 45° C
3D Mapping Method	LIDAR-based Simultaneous Localization and Mapping

### AUTONOMY

Collision Avoidance	✓
Pilot-free Operation	✓
Mission Modes	Multi-Objective
Comms Required	Only for initial mission tasking
GPS-Required	No
Low/No-Light Operation	✓

### GIMBALLED LIDAR

Laser Safety Class	1
Spherical Field-of-View	360° H x 285° V
Rotation Frequency	20 Hz
Gimbal Rotation	~2Hz
Max Range	100 m @ 80% Surface Reflectance
Points Per Second	~600,000
Return Type	Dual with Intensity
Range Accuracy	Up to ±3 cm

### OUTPUT

Real-Time Data Visualization	✓
Data Collection Replay	✓
3D Map Georeferencing	✓
3D Point Cloud	XYZ, Intensity
Point Cloud Formats	LAS, PLY, XYZ
Other Outputs	Trajectory

### CAMERA & LIGHTS

Model	GoPro HERO8
Video Resolution	4k
LED Quantity	2
Lumens	3200

### CONTROL UNIT

CPU	Intel Core i7
RAM	32GB DDR4
Storage	512 GB internal SSD
Interfaces	USB 3.0, WiFi

### POWER

DC Input	24 V
Power	75 W

### BATTERY

Batteries Included	2 Pairs
Nominal Voltage	24V (6S)
Battery Capacity (each)	175 Wh
Battery Chemistry Type	Li-Ion
Maximum Flight Time	18 min
Approximate Range	1.6 km

### TABLET

Model	14", IP-65
Interface	Capacitive Touchscreen
Operating System	Ubuntu 18.04
Software Interface	ExynView™, mission control & live data streams
Communication	2.4GHz & 5.8GHz WiFi WPA2 encryption
Weight	6.5 lbs

### CASE

Shipping Weight	24 kg
Internal Size (H x W x L)	24 x 24 x 14 in
External Size (H x W x L)	26.5 x 26.5 x 15.6 in