



Micro Aerial Projects L.L.C.
Intelligent UAV Operations and Sales



MAP-M4 SPECIFICATIONS

STRUCTURAL:		
Construction:	Carbon Fiber, Aluminum, PLA (Plastic)	
Frame Size:	640mm x 640mm x 280mm	25.2" x 25.2" x 11"
Empty Weight:	2.15kg	4.74lbs
Mapping Payload Take-off Weight:	4.5kg	10lbs
Propellers:	35.5cm x 14cm (Pitch)	14" x 5.5" (Pitch)

PERFORMANCE:		
*Max Flight Altitude (ASL):	3500m	11482ft
Max Flight Speed:	20m/s	44mph
Recommended Mapping Flight Speed:	10m/s	22mph
Minimum Takeoff/Landing Area:	2m Radius	6.5ft Radius
Flight Time (Safe):	25 Minutes	
Flight Time (Max):	30 Minutes	
Coverage Area in 25 Minutes at: <i>400ft / 121M ASL</i> <i>10m/s Flight Speed</i> <i>80% Forward / 70% Side Image Overlap</i> <i>(2.9cm Pixel Size / GSD)</i>	50 Hectare / 123.5 Acres	

POWER:	
Battery:	6 Cell 6000mah x 2 (Parallel)
Auxilliary Power:	2 XT-30 Power Leads - Battery Voltage (20-25.2V)

COMMUNICATION LINKS:		
Radio Transmitter	2.4Ghz	
**Radio Transmitter Link Range:	MAX 1.5KM	MAX 1 Mile
Telemetry Transciever	900Mhz or 433Mhz (Location Dependent)	
***Telemetry Transciever Link Range:	MAX 60KM	MAX 37 Miles

STANDARD MAPPING PAYLOAD:	Sony A6000 (25MP) with 16MM Fixed Focal Length Lens	
	V-map AIR Dual Frequency GPS L1/L2 20Hz Receiver	
	Camera Mount with Adjustable Pitch/Tilt	
	600mW 5.8Ghz Video Transmitter	

* Theoretical Max Altitude. The MAP-M4 has not yet been tested at this altitude

** No obstructions (Line of Sight)

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What's included in the MAP-M4 Mapping Package:

ITEM:	DESCRIPTION:
MAP-M4 Quadcopter (2)	Two MAP-M4 Quadcopters
Radio Transmitter	Radio Transmitter with On-screen Telemetry
Radio Transmitter Charger	Charger for Radio Transmitter (AC)
FPV Monitor	First Person View Monitor with Built in 5.8Ghz Radio Receiver
4 Port Battery Charger	AC/DC Battery Charger (110-240V AC 12V DC) capable of charging 4 batteries simultaneously
Telemetry Downlink	900Mhz Long Range Telemetry Transceiver for Bi-directional communication with the MAP-M4 Quadcopter set
Video Transmitter	600mW 5.8Ghz Video Transmitter
Propellers	4 Clockwise, 4 Counter Clockwise Propellers (2 Sets)
*Ruggedized Transport Case	Pelican Transport Case (80cm x 58cm x 50cm 31.6" x 23" x 19.5")
Batteries (4)	4x 6s 6000MAH 35C Lipo Batteries
Propeller Tool	Propeller Fastening Tool
PPK GNSS	V-map AIR 20Hz Dual Frequency L1/L2 GPS
	V-map CamPos GNSS Post Processing Software



