



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



MAP-FM2 SPECIFICATIONS

STRUCTURAL:		
Construction	Expanded Polyolefin (EPO), PLA	
Wing Span	1960mm	77"
Length	1070mm	42.2"
AUW With Mapping Payload	< 5KG	11.02Lbs
Propellers	Two 12x12 Plastic	

PERFORMANCE:		
*Max Flight Altitude (ASL)	3500M	11400ft
Max Flight Speed	35m/s	78mph
Recommended Mapping Flight Speed	18m/s	40mph
Minimum Takeoff / Landing Area	10m Radius	32.8ft Radius
**Flight Time (Safe)	90 Minutes	
**Flight Time (Max)	2.5 Hours	
Coverage Area in 1 Hour	223.5 Hectare / 552 Acres	
<i>100m / 328ft</i>		
<i>18m/s 40mph</i>		
<i>80% Forward / 70% Side Image Overlap</i>		
<i>2.44cm Pixel Size (GSD)</i>		

POWER:	
Battery	2x 6s 7,000mAh 1x 6s 20,000mAh

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 GNSS 20Hz Receiver

* Theoretical Max Altitude - The MAP-FM2 has not yet been tested at this altitude

** Safe Flight Time based on 2x 6s 7,000mAH | Max Flight Time based on 1x 6s 20,000mAH

*** Line of Sight - No Obstructions

