



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

UNMANNED AERIAL VEHICLES

PRICELIST

NOTICE:

THIS PRICELIST IS SUBJECT TO CHANGE WITHOUT NOTICE. THIS PRICELIST CONTAINS CONFIDENTIAL INFORMATION AND IS INTENDED SOLELY FOR THE INDIVIDUAL(S) RECEIVING IT DIRECTLY FROM MICRO AERIAL PROJECTS L.L.C. DISSEMINATION, DISTRIBUTION AND PUBLICATION OF THIS PRICELIST IS PROHIBITED.

CODE	DESCRIPTION	PRICE
M4SU	<p>MAP-M4 Quadcopter Single Unit (Ready to Map)</p> <p>Features:</p> <ul style="list-style-type: none">-Safe 20-25 Minute Flight Time with 700g Mapping Payload-2x Flight Batteries in Parallel for safety-V-map Ready-2.4GHz Digital Radio Link with Telemetry Display on-screen-Video Downlink System (FPV)-Open Source Flight Controller-Semi-Autonomous Operation-Mission Planning Software-Portable & Field Repairable <p>Includes:</p> <ul style="list-style-type: none">-4 Port AC/DC LiPo Balance Charger-Spare Propellers- V-map AIR GNSS (GPS + GLONASS) 20Hz Dual Frequency Receiver (PPK)- *Sony A6000 24MP Camera with 16mm Pancake Lens	US\$ 8,499
M4MP	<p>MAP-M4 Mapping Package (Ready to Map)</p> <p>Includes:</p> <ul style="list-style-type: none">-Two MAP-M4 Quadcopters (Ready to Fly)-2.4ghz Radio Transmitter-Long Range Telemetry Transmitter-Video Downlink System (Video Transmitter, Receiver & Monitor)-Spare Propeller Set-*Sony A6000 24MP Camera with 16mm Pancake Lens-V-map AIR GNSS (GPS + GLONASS) 20Hz Dual Frequency Receiver (PPK)-Ruggedized Transport Case-4 Port AC/DC LiPo Balance Charger	US\$ 12,600

CODE	DESCRIPTION	PRICE
TM3SU	<p>MAP-TM3 VTOL Fixed Wing Single Unit (Ready to Map)</p> <p>Features:</p> <ul style="list-style-type: none"> - 40 Minute Safe Flight Time with Mapping Payload - Vertical Take-off and Landing - Setup for "Flick of the Switch Mapping" - Full Telemetry on Radio Controller - Easy Camera Mounting - Long Range 900mhz Telemetry Data Link - Pixhawk 2.1 Flight Controller (CUBE) - Click In and Lock System for Wings requires no screws or wire connections <p>Includes:</p> <ul style="list-style-type: none"> - 4 Port AC/DC LiPo Battery Charger - Radio Transmitter with Telemetry Display on-screen - 900mhz Long Range Telemetry Data Link - V-map AIR GNSS (GPS + GLONASS) 20Hz Dual Frequency Receiver (PPK) - *Sony A6000 24MP Camera with 19mm Fixed Focal Length Lens - V-map AIR GNSS (GPS + GLONASS) 20Hz Dual Frequency Receiver (PPK) - Spare Propellers 	US\$ 8,499
TM3MP	<p>MAP-TM3 Package (Ready to Map)</p> <p>Features:</p> <ul style="list-style-type: none"> - Vertical Take-off and Landing - Setup for "Flick of the Switch Mapping" - Full Telemetry on Radio Controller - Easy Camera Mounting - Long Range 900mhz Telemetry Data Link - Pixhawk 2.1 Flight Controller (CUBE) - Click In and Lock System for Wings requires no screws or wire connections <p>Includes:</p> <ul style="list-style-type: none"> - 2x Ready to Map MAP-TM3 VTOL Fixed Wing Aircraft (including main wings and tails) - Transport Case for Fuselages, Battery Charger, Remote Control and Tool Pouch - Transport Cases for Wing Pairs, Nose Cone and Propellers - 4 Port AC/DC LiPo Battery Charger - Radio Transmitter with Telemetry Display on-screen - Camera Mount - 900mhz Long Range Telemetry Data Link - Tools for Assembly/Disassembly - *Sony A6000 24MP Camera with 19mm Fixed Focal Length Lens - V-map AIR GNSS (GPS + GLONASS) 20Hz Dual Frequency Receiver (PPK) - Spare Propellers 	US\$ 12,600

CODE	DESCRIPTION	PRICE
FM2SU	<p>MAP-FM2 Fixed Wing (Ready to Map)</p> <p>Features:</p> <ul style="list-style-type: none"> - Safe 90 Minute Flight Time (2.5 Hour Max Flight Time) - Setup for "Flick of the Switch Mapping" - Easy Camera Mounting - Long Range 900mhz Telemetry Data Link - Pixhawk 2.1 Flight Controller (CUBE) - Click In and Lock System for Wings requires no screws or wire connections <p>Includes:</p> <ul style="list-style-type: none"> - Transport Case for Fuselages, Battery Charger, Remote Control - 4 Port AC/DC LiPo Battery Charger - Radio Transmitter with Telemetry Display on-screen - 900mhz Long Range Telemetry Data Link - *Sony A6000 24MP Camera with 19mm Fixed Focal Length Lens - V-map AIR GNSS (GPS + GLONASS) 20Hz Dual Frequency Receiver (PPK) 	US\$ 9,499
FM2MP	<p>MAP-FM2 Package (Ready to Map)</p> <p>Features:</p> <ul style="list-style-type: none"> - Safe 90 Minute Flight Time (2.5 Hour Max Flight Time) - Setup for "Flick of the Switch Mapping" - Easy Camera Mounting - Long Range 900mhz Telemetry Data Link - Pixhawk 2.1 Flight Controller (CUBE) - Click In and Lock System for Wings requires no screws or wire connections <p>Includes:</p> <ul style="list-style-type: none"> - 2x MAP-FM2 Fixed Wing Units - Transport Case for Fuselages, Battery Charger, Remote Control - 4 Port AC/DC LiPo Battery Charger - Radio Transmitter with Telemetry Display on-screen - 900mhz Long Range Telemetry Data Link - *Sony A6000 24MP Camera with 19mm Fixed Focal Length Lens - V-map AIR GNSS (GPS + GLONASS) 20Hz Dual Frequency Receiver (PPK) 	US\$ 13,600

*Alternative lens options available

NOTES:

- All platforms are thoroughly tested and supplied with test flight records
- Ground Control Station (Laptop) with USB port is not included but is required. Please contact us for affordable/suitable options.
- For PPK Functionality, a Base Station or CORS station is required. V-map Base Stations and Surveying Solutions are available and can be found at the end of this document (or refer to the V-map AIR Pricelist)
- Batteries are not included as they are deemed hazardous goods. Please contact us for options and pricing.
- Shipping/Handling/Import Duties/Taxes not included in item price.
- Spare Parts are available on request

UNMANNED AERIAL VEHICLES TECHNICAL SPECIFICATIONS:

MAP-M4 MAPPING QUADCOPTER



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: 400ft / 121M ASL 10m/s Flight Speed 80% Forward / 70% Side Image Overlap (2.9cm Pixel Size / GSD)	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)

*** No obstructions (Line of Sight)

MAP-TM3 VTOL FIXED WING



STRUCTURAL:		
Construction	Expanded Polyolefin (EPO), PLA, Balsa-wood, Carbon Fiber	
Wing Span	1800mm	70.8"
Length	1300mm	51.2"
AUW With Mapping Payload	< 5KG	11.02Lbs
Propellers	Two 13x8 Wood	
	One 17x8 Plastic MR	

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)	40 Minutes	
**Flight Time (Max)	60 Minutes	
Coverage Area in 45 Minutes	146.5 Hectare / 362 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	6s 10,000mAh 6s 12,000mAh

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-TM3 has not yet been tested at this altitude

** Flight Time based on 6s 10,000mAH

*** Line of Sight - No Obstructions

MAP-FM2 ENDURANCE FIXED WING



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

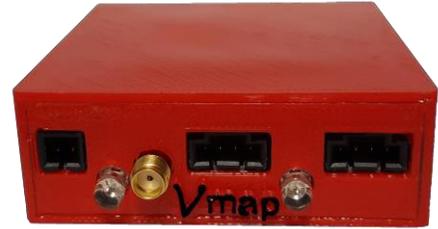
STANDARD MAPPING PAYLOAD:	Sony A6000 (25MP) with 16mm Fixed Focal Length Lens
	V-map AIR Dual Frequency GNSS 20Hz Receiver

* 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

Vmap AIR



PRICE LIST:

NOTICE:

THIS PRICELIST IS SUBJECT TO CHANGE WITHOUT NOTICE. THIS PRICELIST CONTAINS CONFIDENTIAL INFORMATION AND IS INTENDED SOLELY FOR THE INDIVIDUAL(S) RECEIVING IT DIRECTLY FROM MICRO AERIAL PROJECTS L.L.C. DISSEMINATION, DISTRIBUTION AND PUBLICATION OF THIS PRICELIST IS PROHIBITED.

CODE:	RECEIVER OPTIONS:	PRICE:
VA12	GPS L1/L2 20Hz*	US\$ 2,500.00
VA12GG	GPS L1/L2 + GLONASS 20Hz*	US\$ 2,700.00

CODE:	OPTIONAL FEATURES:	PRICE:
*Inc VA100	100Hz Observation Rate	US\$ 750.00
VARTK	RTK (Radio Not Included)	US\$ 1,500.00

CODE:	OPTIONAL ACCESSORIES:	PRICE:
VAA616	Sony A6000 with 16mm Fixed Focal Length Lens, Setup and Configured for V-map AIR	US\$ 1,090.00
VAA620	Sony A6000 with 20mm Fixed Focal Length Lens, Setup and Configured for V-map AIR	US\$ 1,275.00
VMROV	V-map ROVER Mounting Kit Includes survey rod mount for V-map AIR receiver, survey rod mountable event marker, NiMH Batteries, Battery Charger and transport case.	US\$ 350.00
VMTER	V-map Terrestrial Surveying Kit Includes 2 survey rod mounts for V-map receivers (Base and Rover Setup), NiMH Batteries, Event Marker, Battery Charger and transport case.	US\$ 600.00
M600Ant	V-map Antenna Mount for DJI M600	US\$ 175.00
M600CM	V-map & Sony A6000 Camera Mount for DJI M600	US\$ 300.00
M600CT	Independent Camera Trigger Control Setup to trigger camera at pre-defined distance intervals	US\$640.00

CODE:	RECEIVER PACKAGES:	PRICE:
V12S	GPS L1/L2 20Hz Surveyors Package* Includes 1 x V-map 20Hz Dual Frequency L1/L2 GPS receiver for use as a rover, 1x V-map 1Hz Dual Frequency L1/L2 GPS receiver for use as a Base/Reference Station and the V-map Terrestrial Surveying Kit (VMTER)	US\$ 5,500.00
V12GGS	GPS L1/L2 + GLONASS 20Hz Surveyors Package* Includes 1 x V-map 20Hz Dual Frequency L1/L2 GPS & GLONASS receiver for use as a rover, 1x V-map 1Hz Dual Frequency L1/L2 GPS & GLONASS receiver for use as a Base/Reference Station and the V-map Terrestrial Surveying Kit (VMTER)	US\$ 5,900.00
VBASE1	GPS L1/L2 1Hz Base Station Solution* Includes 1 x V-map 1Hz Dual Frequency L1/L2 GPS receiver with survey rod mount, NiMH Batteries, Battery Charger and Transport Case.	US\$ 2,900.00
VBASE2	GPS L1/L2 + GLONASS 1Hz Base Station Solution* Includes 1 x V-map 1Hz Dual Frequency L1/L2 GPS & GLONASS receiver with survey rod mount, NiMH Batteries, Battery Charger and Transport Case	US\$3,100.00

**Includes antenna & GNSS Post Processing Software (V-map CamPos)

Custom configurations and solutions available on request!