

GeoSwift Mapper UAS Fixed-Wing Drone

The GeoSwift Mapper UAS was designed as an advanced fully autonomous, yet simple to operate, survey and mapping unmanned aircraft system. The mission planning software is intuitive allowing operators to get up and flying quickly. Take-off is performed through a simple hand launch, and the landing algorithm features a robust and precise autonomous landing.

FEATURES

The GeoSwift Mapper UAS also features an interchangeable camera payload bay providing flexibility to suite your business's needs. Select from one or multiple cameras to produce professional outputs that include:

- **Orthomosaic**
- **DSM (Digital Surface Model)**
- **Topographic Map**
- **3D Mesh With Texture**
- **NDVI (Normalized Difference Vegetation Index)**
- **Point Cloud**
- **Thermal/IR**



Leptron Unmanned Aircraft Systems, Inc.

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GeoSwift Mapper UAS

Fixed-Wing Drone

SPECIFICATIONS

Aircraft Specifications

Platform Type:	Fixed Wing
Flight Time:	1 hour
Area Covered:	600 acres (900 with battery upgrade)
Wing Span:	67.5"
Operating Temperature:	-5 to 100°F
Gross Takeoff Weight:	6 lbs.
Maximum Airspeed:	44 mph (20 m/s)
Maximum Operational Winds:	25 mph (11 m/s)
Best Mapping Speed:	30 mph (13 m/s)
Stall Speed:	11 m/s
Maximum Rate of Climb:	4.6 m/s
Operational Ceiling:	14,000' MSL
Payload:	RGB or Multispectral
Operating Temperature:	-5 to 100°F
Flight Management System:	SwiftCore™

Ground Control Station Specifications

Flight Management System:	SwiftStation™, SwiftPilot™, and SwiftTab™
Operating System:	Android Tablet, 9.7" Display
Run Time:	4+ Hours
Communication Frequency:	900mhz

Ready-To-Fly Out Of The Box

The GeoSwift Mapper UAS includes everything required for conducting mapping missions; aircraft, battery, ground station with tripod, tablet computer, field toolbox, carry case, control handset, and flight training.

Select from one or multiple camera and accessory options that suit your mapping needs:

Sony a6300 with Optional PPK/RTK (centimeter accuracy)

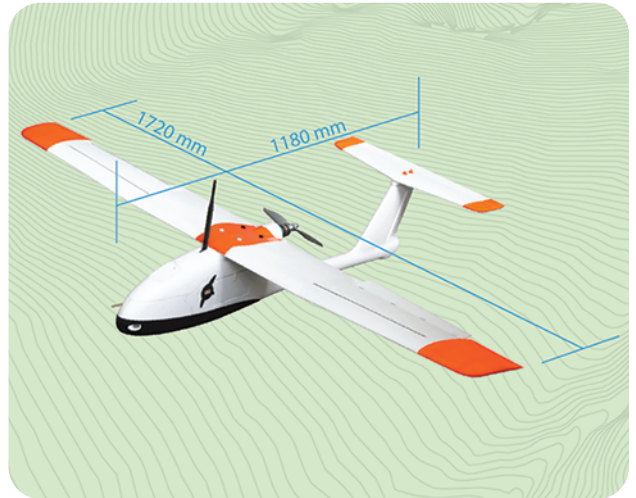
- APS-C 24 MP sensor
- World's Fastest AF (Auto Focus)

MicaSense RedEdge Multispectral

- 5 Spectral Bands including near – IR

FLIR Vue Pro

- Thermal Imaging



Available Flight Training

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