SATLAB®
GEOSOLUTIONS

SLA-1
Photogrammetry
UAS with RTK



www.satlabgps.com

SLA-1
Photogrammetry UAS with RTK

Photogrammetry UAS with all constellation
GNSS RTK positioning







Easy And Safe System

Satlab SLA-1 is a photogrammetry UAS delivering high accuracy point cloud and orthophoto.

SLA-1 airframe is highly optimized, built by easy to attach/detach pieces for very easy transportation and operation.

Advanced Autopilot System ensures easy and safe operation.

High Resolution 20.1 MP Sony Image Sensor with Sony E-Mount Lens fitting.

Easy to plan and upload mission to the SLA-1 autopilot using included Mission Planning software.

Autopilot assisted Hand Launch and Landing makes operation of the SLA-1 system very easy.

Redundant GNSS Receiver configuration increases safety of operation.

GNSS Technology

RTK
GPS - GLONASS
BEIDOU

Increased efficiency using integrated Dual frequency RTK GPS/GLONASS/BEIDOU receiver reducing the number of Ground Control Points (GCPs) required.

Increased safety with motor placed in Pusher configuration aft of airframe, significantly reducing risk of injury in case of accident.

Very easy to use Ground Control Station including Win 10 Computer, Remote Control, HD LCD Display and Mission Planning software.

Spare parts are available at very reasonable costs.

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Aircraft

Dimensions	: 1800 mm x 1350mm
Weight	: 2.7kg
Flight time	: ~60 minutes
Battery	: Li-Po 14.8V 8000mAh
Autopilot	: Industry standard Microprocessor AP with IMU, Electronic Compass, Airspeed Sensor, Auto Hand Launch and Landing functionality, Redundant GNSS Receiver for basic navigation and "Return Home and Landing".
Camera	: SONY QX-1 modular Image Sensor with 20.1MP and interchangeable lens capability, Wi-Fi and removable Micro SD-card
Supplied optics	: 16 mm calibrated fixed focus lens.
GNSS RTK Receiver	: SatLab "Sponge" Dual frequency RTK GPS/GLONASS/BEIDOU GNSS Receiver based on Novatel OEM6 technology
Radio	: 433Mhz Tranceivers for RTK corrections
Radio Control	: Jeti DC16 EX 2.4 GHz Transmitter
Altitude	: 60-200 meters
Typical Cruise Speed	: 50 km/h
Temperature, operation	: -10 to +50 ^{0}C
Temperature, storage	: -20 to +60 ^{0}C

Ground Station

Computer	: Intel Atom Processor, 1.83GHz, Intel HD Graphics, HDMI, 2 x USB Port, Wi-Fi, Bluetooth, 2GB RAM, 160GB SSD Storage
OS	: Windows 10 / Android
Radio	: 433MHz Tranceiver for RTK Corrections
Radio Control	: Jeti DC16 EX 2.4 GHz Transmitter
Display	: 10.1" TFT LCD 1024 x 600 Pixel
	Mission Planning Software
	Mounting Hardware
Temperature, operation	: -10 to +50 ^{0}C
Temperature, storage	: -20 to +60 ^{0}C

Specifications subject to change without notice.

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