Specification

LiDAR Unit	System Accuracy	5 cm @ 100 m
	Range Accuracy	1 cm @ 100 m
	Measuring Range	80 m @ 10% ref.; 0.05-300 m
	Field of View (FOV)	360° (horizontal)*40.3° (vertical)
	Data	640,000 points/sec (single echo) 1,280,000 points/sec (dual-echo) 1,920,000 points/sec (triple-echo)
POS Unit	Position Accuracy (pp)	Horizontal: 0.01 m; Vertical: 0.02 m
	Heading Accuracy (pp)	0.03°
	Roll/Pitch Accuracy (pp)	0.006°
Camera Unit	Effective Pixel	26 MP (6252*4168)
	Focal Length	16 mm
System	Weight	1 kg
	Temperature Range	-20°C～+50°C (operation) -20°C～+65°C (storage)
	IP Rating	IP64
	Data Storage	1TB (SSD 512 GByte + 512 GByte TF Card)
	Data Transmission Mode	Type-C, up to 160 m/s
	Mounting Interface	DJI Skyport
	UAVs	Designed for DJI M300/DJI M350

SATLAB GEOSOLUTIONS

Apus
UAV LiDAR Solution

SATLAB GEOSOLUTIONS

Made by Sweden

Apus UAV LiDAR

The Apus represents the evolution of SatLab's LiDAR solutions. This light compact and superior system integrates an advanced laser scanner with an industrial grade camera and a sophisticated inertial navigation system, is able to collect reliable and great detailed point cloud and rich image information.

Its versatile applications span across 3D spatial data acquisition for terrain mapping, electricity, forestry and agriculture surveys, emergency response, and land planning.

- Triple Returns
- Plug and Play
- One Button Operation

Simplicity of Operation

With one button operation and automated route planning software, Apus enables users to quickly start mapping and monitor the data quality in real-time.

Lightweight

Within its 1kg frame, the Apus seamlessly integrates the HESAI advanced laser scanner with a high precision GNSS-aided inertial navigation system and high-resolution camera, allowing for extended flight time and thus enhancing overall efficiency and performance.

Intelligent & Reliable

As a robust and intelligent system, Apus excels in most scenes even in the steep, rugged terrain and thick vegetation. It can capture data autonomously within designated survey areas which minimizes data overlapping greatly. With its dual storage for data backup, you can access project history information and manage data easily and flexibly.
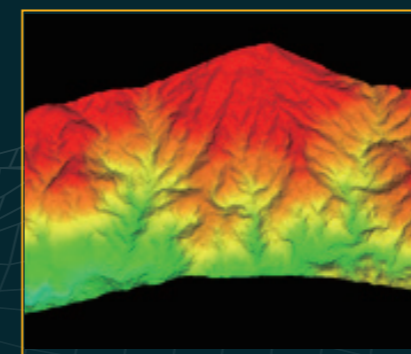
All in One-click

Combing with our Sat-LiDAR software, trajectory solving, data fusion, strip adjustment, point cloud optimization and colorization can be done in one-click, resulting in more accurate data.

Workflow

Drone with Apus

RINEX data

Sat-LiDAR One-click processing

Export color point cloud
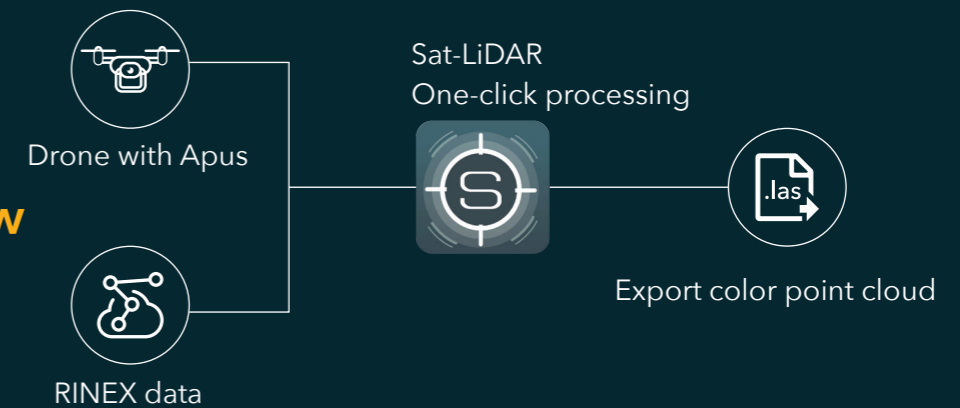
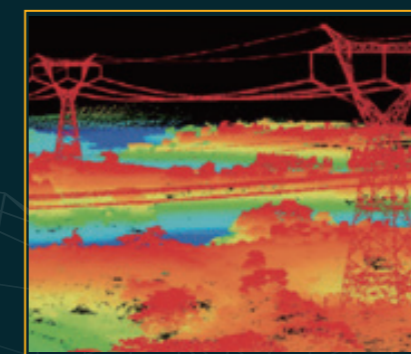# Applications

Topographic Mapping

Power Line Inspection

Forestry Survey