GreenValley International

LiAir 250 Pro

Lightweight LiDAR scanning system

The LiAir 250 Pro system is a lightweight multi-wavelength LiDAR system developed for multi-rotor platforms. It integrates a compact LiDAR system, an inertial navigation system, and a control system to collect massive amounts of high-precision point cloud data and rich image information. It can be used widely in the acquisition of 3D spatial information.

Product advantages

Extremely compact design

We've adopted a whole new approach to designing UAV LiDAR systems. Adopting only the best materials to bring you a pay-load of <2.0kg(excl. camera) keeping the focus on what really matters, the technology.

Multi-platform

Support DJI M300 rapid deployment, direct power supply from the drone platform of your choice, and support multi-platform vehicle applications in certain environmental scenarios. (such as vehicle platforms without DMI requirements)

Performance improvement

· AGL: 80m, under standard operating environment, the error of the equipment system elevation is ≤3cm

· Fully automatic calibration system to increase the effective collection flight time of drone operations

· Supports Trimble RTX service (excl. subscription)

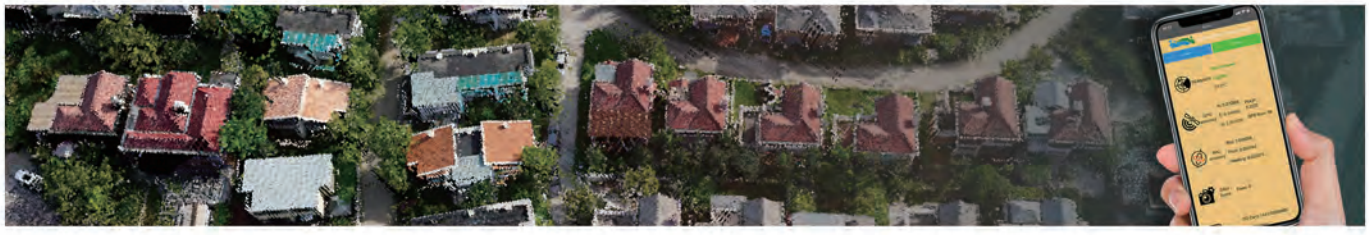
· Dual storage mode design to increase the reliability of equipment in the field

Convenient Web U.I Control

Supports dual data storage mode, you can view and control the status directly through the browser, which is convenient for users to use mobile phones, tablets, and laptops to quickly connect and control.

Specifications

Weight	2.0kg (+300g incl.camera)
Voltage	12-32v
Ranging accuracy	±15mm
Scan range	330m@80% reflectivity
System accuracy	±3cm@AGL 80m
Camera	customized SONY 2430w camera (optional)
Laser sensor	Riegl miniVUX-3 UAV
Number of echoes	5
Scanning field of view angle	up to 360°
Scan rate	200,000pts/s
Heading accuracy	0.08°
Attitude accuracy	0.025°
IMU data frequency	200hz
Preprocessing software	LiGeoreference (proprietary) & Pospac
Post-processing software	LiDAR360/LiPowerline (optional) LiMapper (optional)



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