SA130mini

Specification

General

Weight	1.3kg
Absolute accuracy	5cm@300m
Dimensions	180X116.5X87.2mm
IP rating	IP64
Power	40W

RGB Camera

Resolution	45MP/26MP
Focal length	18mm/16mm
Sensor size	36X24mm/23.5X15.6mm
FOV	90°/73°
200 meters resolution	4.9cm/4.7cm

LiDAR

Maximum measuring range	1200m
Measuring accuracy	15mm/5mm@150m
Maximum scan speed	255 lines/sec
Scanning FOV	100°
Number of Returns	12
Laser Safety Classification	CLASS I

IMU update rate

IMU update rate	500Hz
IMU Accuracy	0.006 Roll/ Pitch 0.019 Heading
Position Accuracy	0.01m horizontal 0.02m vertical

SOUTH
Target your success
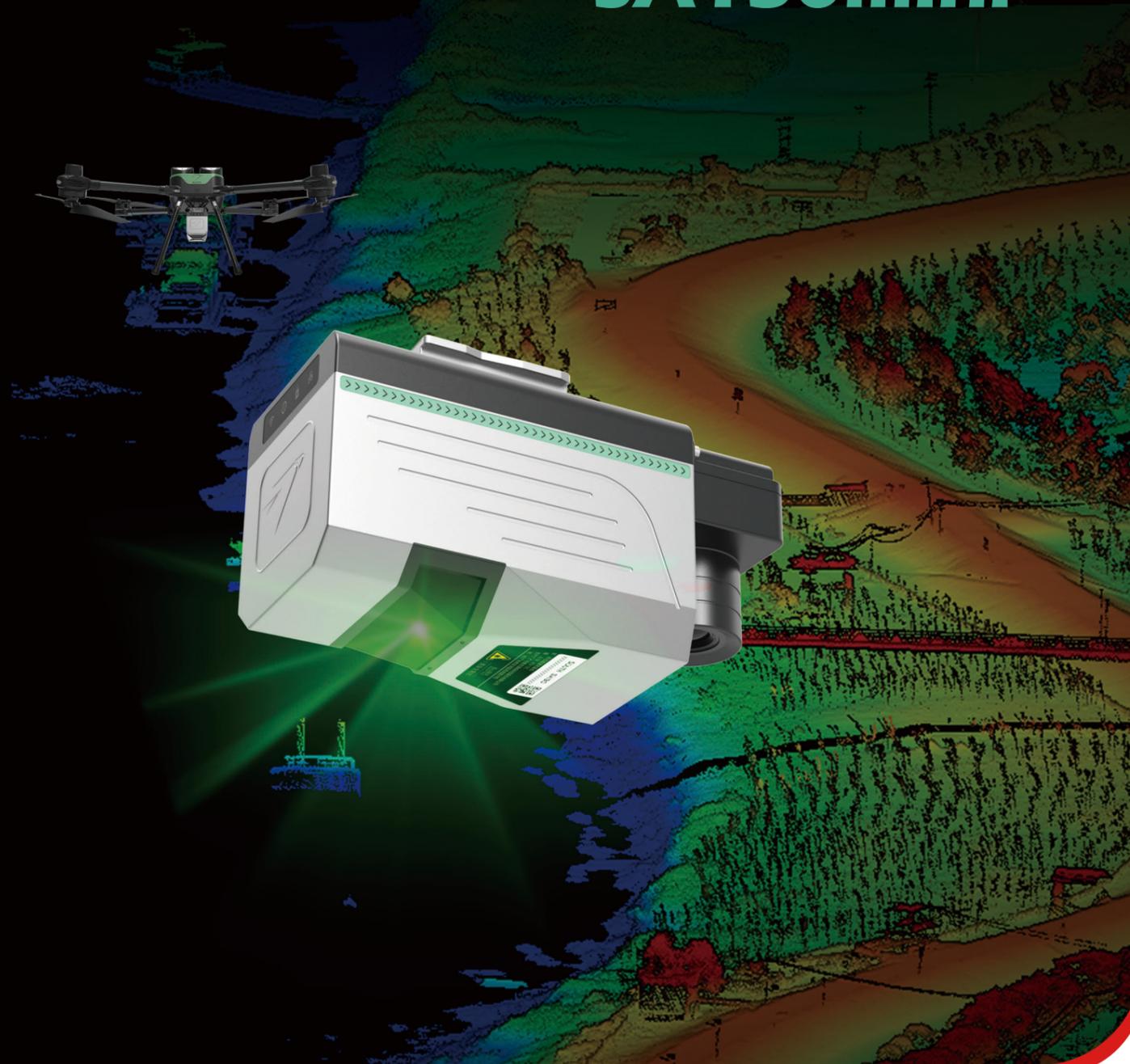
High-Precision Aerial LiDAR System

SA130mini

- ● Ultra-high Integration: Integrates multiple sensors in one; only 1.3kg.

- ● Ultra-high Precision: 1535nm survey-grade LiDAR (1200m range), paired with a high-precision integrated navigation system for ultra-accurate multi-source fused data.

- ● Intelligent Operation: One-click takeoff & automated field data collection; one-click indoor processing.

Hardware

LiDAR Module

1535nm survey-grade LiDAR with 1200m range, 12-time multi-echo. Captures precise 3D surface point cloud data (longer range & more echoes than peers, higher accuracy).

RGB Camera

Delivers high-resolution orthophotos.

### High-Precision Integrated Navigation System

Integrates GNSS/IMU modules; post-processing accuracy: 0.01m (horizontal), 0.02m (vertical). Ensures high-precision spatial synchronization of point clouds and image data via self-developed system & algorithms.
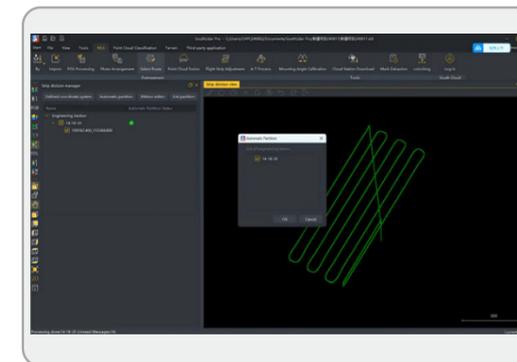
Software

AcuteLas studio is capable to process terrestrial scanner data, aerial lidar data, and it can process data in batches, that means several groups data can be imported at the same time and process together.
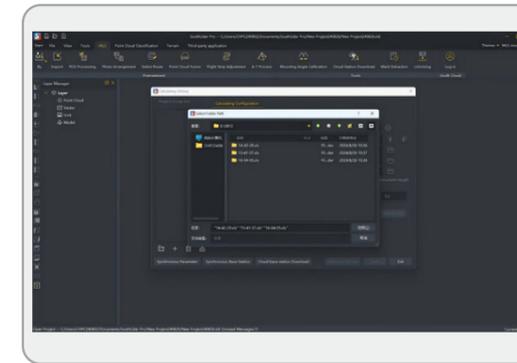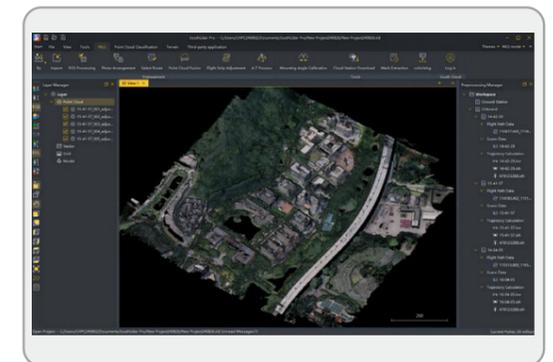

Import several flights data
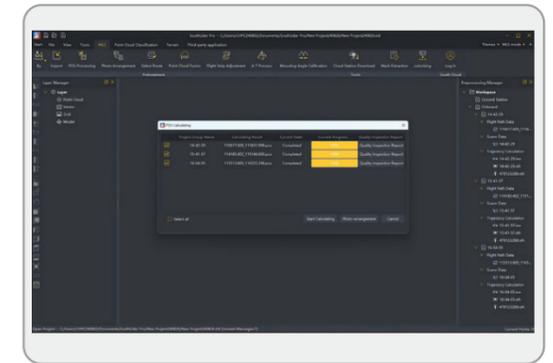
Several flights POS data processing

Flight strips division

Serval flight data fusion

Platform

Compatible with South SF1200 Drone
Flight time: ≥60 mins (level flight)

Compatible with DJI M350 RTK Drone
Flight time: ≥30 mins (level flight)