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SLAM R100

RealTime, Real Reliable



SLAM

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Real Time, Real Reliable

SLAM R100 is a handheld real-time 3D reconstruction device developed by α -GEO, which deeply integrates LiDAR module, vision module, high precision inertial navigation module and high performance computer modules. With an integrated design, and one-click operation, built-in α -GEO Multi-SLAM reconstruction algorithm, SLAM R100 can be used to directly obtain true color point clouds and generate models, and realizes ultra-fast collaboration through remote collaboration.



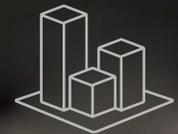
$\pm 1.5\text{cm}$
accuracy



90 minutes of
continuous work



Real-time
reconstruction



True color
point cloud



Remote
collaboration

Real-time calculation for instant reconstruction



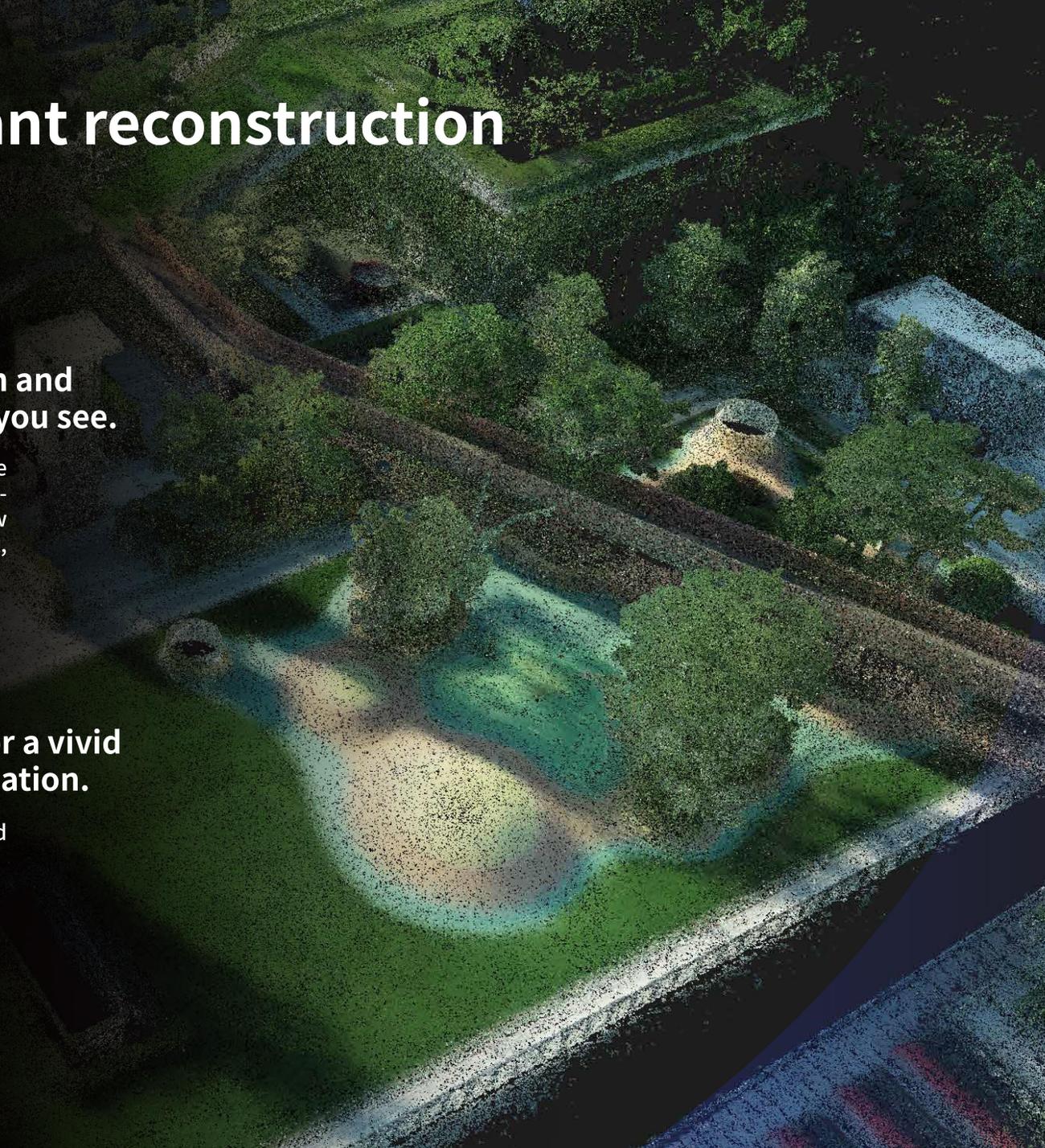
Real-time reconstruction and instant viewing of what you see.

The results can be viewed in real time to avoid rework due to improper collection. No post-calculation, preview and export results are consistent, LAS. format output directly.



True color point cloud for a vivid depiction of the real situation.

Easily distinguish ground objects and contours, easy to map operations.



Highly insightful, robust and reliable



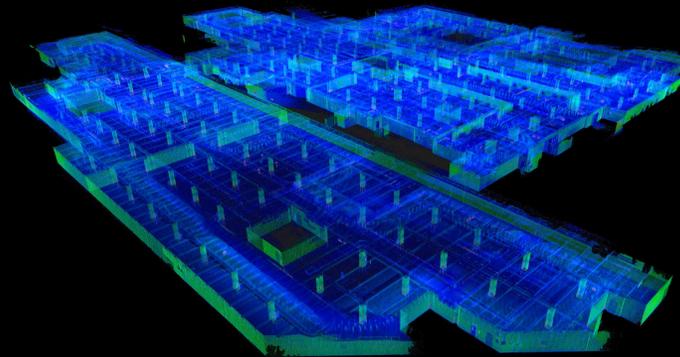
Relative accuracy

$\pm 1.5\text{cm}$



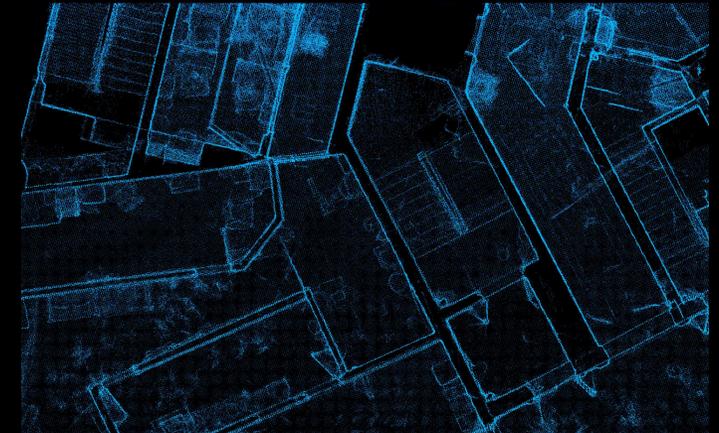
Absolute accuracy

Plane < 5cm,
elevation < 10cm



A single uninterrupted operation can last up to 90 minutes.

Multi-sensor-based microsecond clock synchronization and fully autonomous 3D reconstruction algorithms enable real-time position calculation and generation of models with centimeter-level accuracy.



A single uninterrupted operation can last up to 90 minutes.

The operation success rate is very high in complex scenarios without data stratification, drift, and skew. The data is clear and recognizable.

Highly integrated load diversified



High precision inertial navigation

Continuous pose correction



High performance computing module

Real-time calculation for instant reconstruction



Detachable battery

Quick disassembly, electricity visible



High precision LiDAR

320000 points /s
120m range



Visual module

Visual SLAM
Panoramic image acquisition

Smart and reliable RTK module



110g

Lightweight and compact

20s

Quick plug and pull

<5cm

High precision positioning

Multiple loads



UAV load



Steadicam Kit

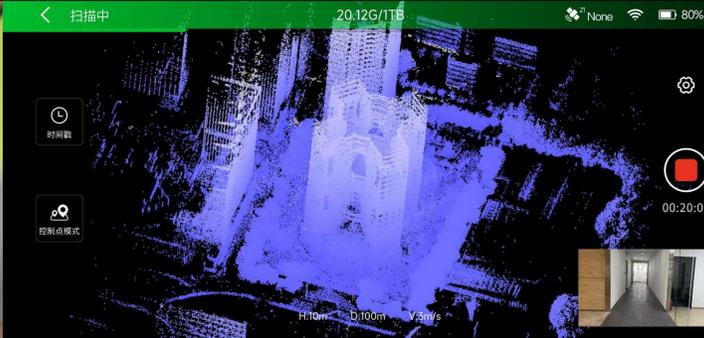
SPECIFICATION

Relative accuracy	±1.5cm	Lidar level	Class 1
weight	1.9kg	Point cloud frequency	320000/640000points /s
IP level	IP54	Scan effective distance	120m
Single usage duration	1.5h	FOV	360°×270°
Repeat accuracy	<1cm	Operating Temp Range	-20°C~50°C
Camera Quantity	4	Internal storage	1TB SSD
Resume breakpoint	Support	Power consumption	<30W
Visually positioning	Support	Battery capacity	46.8 wh
Ture color point cloud	Support	Power supply	Removable battery



Process can be operated by mobile phone.

The whole process of device activation, scanning, RTK and control points can be completed on the App.



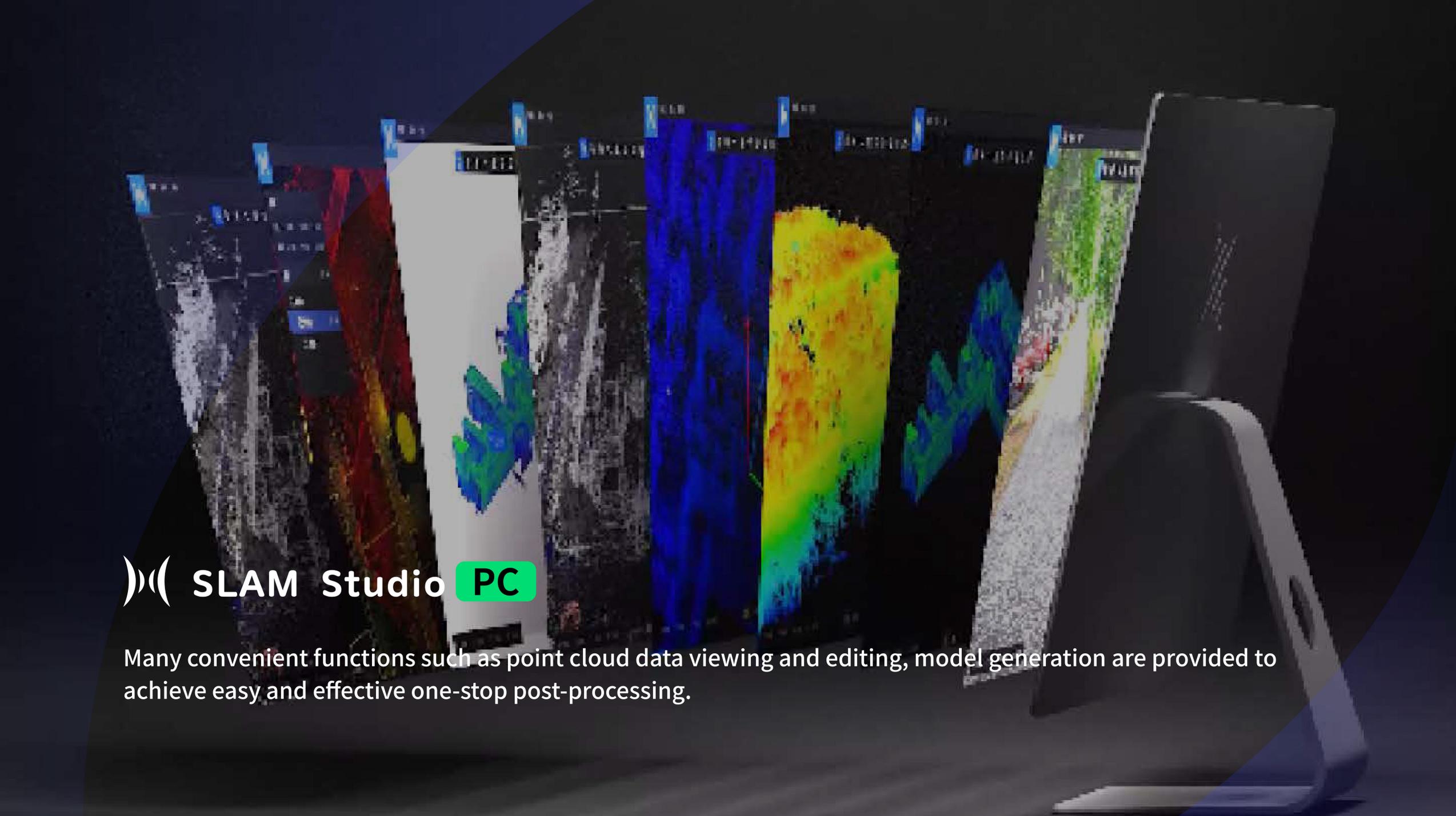
Reconstruction results can be viewed in real time.

The laser point cloud and the video picture can be switched to view in real time to avoid improper acquisition and rework.



Device status can be mastered simply.

Power, network, storage, range measurement, collection status and other information can be displayed in real time.



)) SLAM Studio PC

Many convenient functions such as point cloud data viewing and editing, model generation are provided to achieve easy and effective one-stop post-processing.

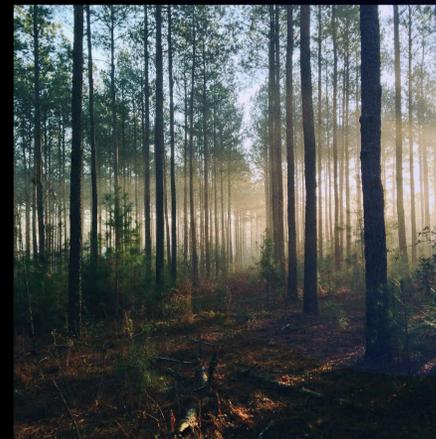
APPLICATIONS



**Surveying and
mapping**



Smart city



**Agricultural and
forestry survey**



**Engineering
survey**



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