

SLAM200

The third generation handheld laser scanner



SLAM200 is the third generation high-precision handheld laser scanner developed by Feima Robotics. The device features a panoramic camera, a higher-performance laser sensor, built-in GNSS module and a more powerful processing unit, offering higher precision, finer details, and more convenient functions. The superior functions of the previous two generation products have been integrated into SLAM200 to create a more efficient and convenient measurement tool.

Main body

Weight	1.4 kg (Host) 1.9 kg (With battery handle, base)
Dimensions	403.6 mm × 137.8 mm × 170 mm
Internal data storage	512 GB SSD
Working temperature	-20 °C ~ 50 °C
Humidity	< 95 %
Protection class	IP 54
Communication	Type-c \ Bluetooth \ Wi-Fi
Lithium battery handle	SP30
Lithium battery weight	400 g
Lithium battery endurance	Approx. 70 mins (Only SLAM200)

Camera

Number of cameras	2
Effective pixels	12 MP (per camera)
Resolution	4000 (H) × 3000 (V) (per camera)
FOV	210° (per camera)
Frame rate	30 Hz

Result accuracy

Point cloud thickness	0.5 cm (After optimization)
Relative accuracy	< 1 cm @ 50 m < 2 cm @ 100 m
Absolutely accuracy	< 5 cm

GNSS module

Satellite system	GPS \ GLONASS \ Galileo \ BDS \ QZSS
Positioning Accuracy(RTK)	Horizon 0.8 cm + 1 ppm Vertical 1.5 cm + 1 ppm

Laser

Laser class	Class 1
Range	0.5m ~ 300 m
FOV	360° (H) , 270° (V)
Laser pulse repetition rate	640 kpts/s
Echoes	Triple Return
Rototing rate	10 Hz (typical)

Features

High precision, high density, high fineness

SLAM200 uses a high-performance laser sensor with 640 kpts/s laser pulse repetition rate and smaller laser spot. Combined with expert-level SLAM algorithm, it can achieve high-precision, high-density and high-fineness point clouds.

Longer measurement range

A longer measurement range allows SLAM200 to take into account both ground mobile measurement and airborne data acquisition.

Panoramic camera

Dual 12 MP fisheye cameras can generate panoramas, color point clouds, and for visual SLAM mapping.

Built-in GNSS module

It has a built-in GNSS module and can connect to the CORS system via a mobile phone, providing absolute position of the data. (External GNSS antenna required)

Real-time mapping

Real-time SLAM can fullfit real-time mapping, real-time coloring, real-time orientation by RTK data.

Multi-platform mounting

SLAM200 supports multi-platform operations, including handheld, sackpack, dronetome , and vehidetome.

Software

SLAM GO POST Pro

SLAM GO POST, embedded in the UAV Manager professional edition, is a PC software that is compatible with SALM. the software can perform post-processing of collected data, generate high-precision and high-definition color point clouds, produce partial panoramic images, display point cloud and perform optimization processing.

SLAM GO

SLAM GO is a mobile application developed in conjunction with SLAM. the APP can be connected to SLAM100 through a cell phone, and can perform project management, real-time point cloud display, image preview, firmware upgrade and other operations. The APP is synchronously adapted to Android and iOS operating systems.

Applications

