

SLAM100

Handheld Laser Scanner

产品参数 Product Parameters

SLAM100

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The SLAM100 is the first handheld mobile lidar scanner from FEIMA Robotics. The system has 360° travel-rotating pan-tilt, which can form 270°*360° point cloud coverage. Combined with industry-level SLAM method, it can obtain 3 -dimentional point cloud data of surrounding environment with high precision and high precision without lighting and GPS.

SLAM100 selects three 5 million pixel camera, which can form a wide field of Angle of 200° wide and 100° high, and obtain texture information at the same time under lighting conditions to produce color point clouds and local full-max images.

SLAM100 adopts integrated structure design, internal control and memory system, built-in replaceable key battery, one program starts operation, making data acquisition more efficient and convenient.

SLAM100 can use SLAM GO mobile phone APP to view and manage the project, automatically display the project information synchronously with the cloud, carry out realtime SLAM jigsaw and real-time preview, and carry out firmware upgrade and equipment maintenance and other operations. Based on FEIMA UAV butler SLAM GO POST software module, it can realize data post-processing, color point cloud production, data stitching, data optimization, browsing and measurement.

SLAM100 can be widely used in traditional mapping, closed space, digital 3-dimentional, emergency communication and other fields due to its portability, no GPS and multiple platforms that can carry.

The overall parameters:

Laser field angle Camera field angle

Relative accuracy Absolute accuracy Storage capacity Power Supply External Power Voltage Internal battery Continued consumption of internal battery Consumption Protection Grade Working temperature Working humidity Weight

Size

Sensor parameter

Laser level Laser channel Measuring Distance Frequency Echo Intensity Number of camera Camera resolution NFC

270 ° * 360° 200° (horization) *100° (verticals) 2cm 5cm 32GB(standard) Lithium battery 13-20V 3000mAh 1 hour 24W IP54 -10 °- +50 °C < 85%RH 1373q (without battery) 372*163*106mm (without base)

> Class 1 16 100m 300kpts/s 8 bits 3 500 Million Pixels Support





NFC

Touch Type WIFI Connection



SLAM100





270°×360° Laser Field of View

Rotary scanning, laser sensor dynamic acquisition can form 270°× 360 ° spherical field angle, accurate to collect different data of each corner, to ensure the integrity of the grip.







With Visible Light Camera









High Precision

Industry-level SLAM post-processing algorithm enables SLAM100 to obtain higher precision and finer 3 dimentional point cloud data.



No need to add control points manually, it can conduct active acquisition and automatic extraction. Active and automatic data can also be placed in the global coordinate system.

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Flight Platform Mount 飞行平台挂载

飞行平台挂载,可支持挂载在飞马D500和D20 飞行平台上,进行空地一体化、室内外一体化数据采集。

Flight Platform Mount, support to load on Feima UAV D500 &D2000, carry on data collecting job integrated in the air & on the land, both indoor & outdoor.

Abundant External Interfaces

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特点介绍

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SLAM GO

SLAM GO is a mobile phone APP used in conjunction with SLAM100.The APP can be connected to SLAM100 devices through mobile phones, which can carry out project management, purchase point cloud jigsaw display, image preview, firmware upgrade and other operations. Support Android and IOS platform.

Real-time data display

SLAM100 wireless connection, real-time

display of scanning data. It can conduct 2D,3D and slice display, control data access without los

Cloud information Synchronization

Mobile APP historical engineering information can be synchronized from the cloud to show the operation time, operation location, project overview and data overview.

Image Preview

Preview three cameras to obtain images, and according to the actual operation environment adjust operation parameters.

SLAM GO POST

SLAM GO POST is the PC side software for SLAM100, embedded in the DRONE Butler professional edition. The software can carry out post-processing of SLAM100 collecting data, produce high-precision and high-precision color point cloud, produce local panoramic view, browse and optimize point cloud processing.

Precise Point Cloud Map Building

Support to produce the point cloud map of indoor and outdoor with relative accuracy 2cm.

Point Cloud Browse

Support point cloud zoom in, zoom out, roam and RGB real point cloud coloring.

Point Cloud Rendering & Coloring

Support including EDL, PCV point cloud and RGB real point cloud coloring.

Key Point Panorama Generation

Support the generation of highdefinition local panorama of key positions in the scene.

应用场景 05 Application Scenarios

Topographic Surveying & Mapping

Real Estate Surveying

Calculation of Cutting & Filling

Protect Ancient Buildings

Digital Management

Underground Space

Caves & Alleys Pass

Volume Measurement

Finish Construction Survey

Forestry Survey

Reverse Engineering

Elevation measurement

