Slam2000 Handheld Handheld 3D Laser Scanner

SLAM2000 is a high-precision handheld laser scanner. The device has a panoramic laser field of view, an integrated visual camera and texture camera, a replaceable lithium battery handle, a built-in high-precision inertial navigation unit and a high- performance computing unit to enable real-time 3D data acquisition and mapping.

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Features:

Panoramic laser FOV

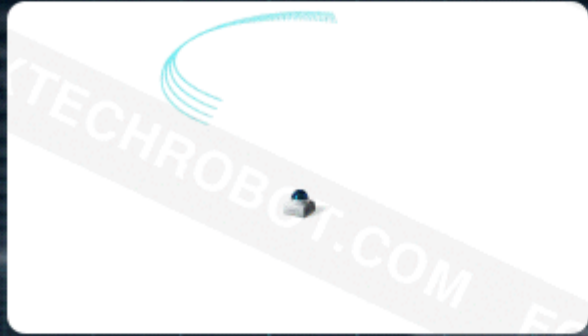High-precision surveying and mapping

Real-time mapping

Visual camera

Texture camera

Abundant extension

360°Panoramic Laser FOV

Integrated with a 360-degree rotational head, the hemispherical non repetitive scanning laser can form a panoramic laser field of view.ensuring multi-directional and full-angle data collection. You can see when you walk, and you can get what you see.


360°

High Precision Surveying and Real-time Mapping

The built-in high precision inertial navigation unit effectively reduces accumulated errors. The high precision calibration algorithm further improves the accuracy of the laser sensor. Also, the professional SLAM algorithm achieves high precision mapping results.

Visual Camera

- 12-megapixel visual camera
- Visual SLAM algorithms
- Obtain high-definition images of local scenes.
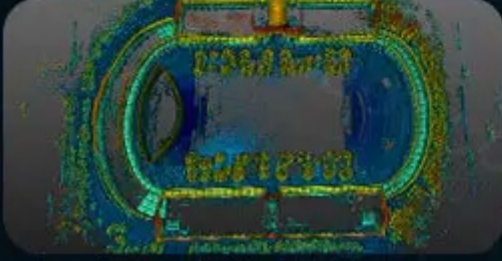
Texture camera

- 12 megapixels and a field of view of 210°
- It is specially optimized for surveying and mapping applications, making the colored point cloud clearer and more delicate.

Visual SLAM Algorithms

Fusion of visual SLAM enhances scene adaptability and improves data quality. For scenes with weak structural textures such as subway tunnels, it is impossible to use laser SLAM alone for mapping. Visual SLAM technology can be used for mapping and effectively control the accuracy of the results.
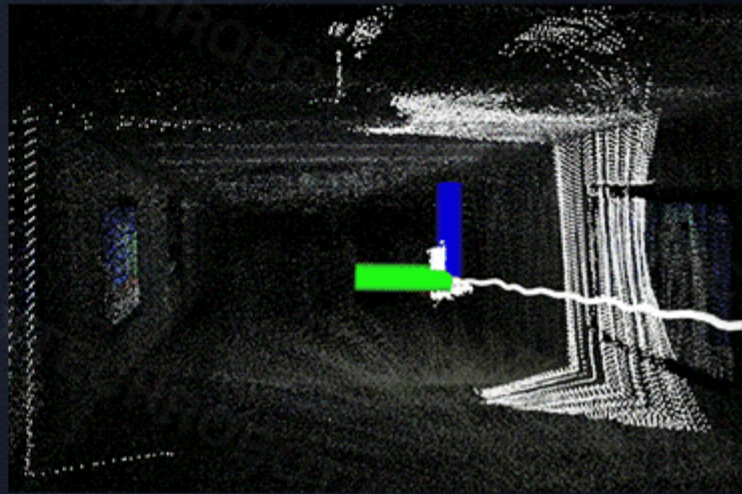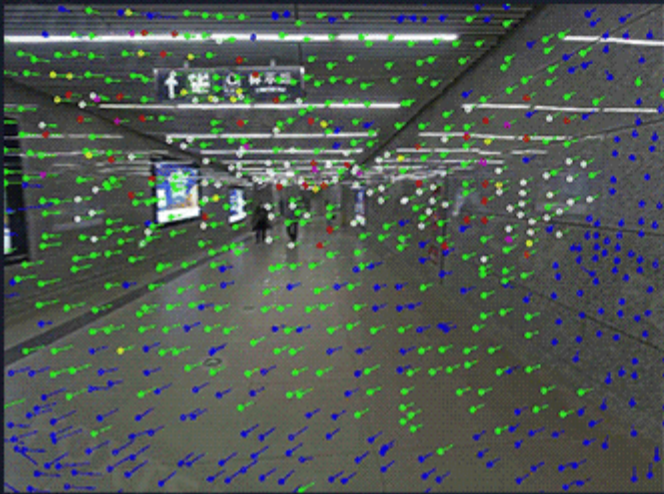
Abundant extension

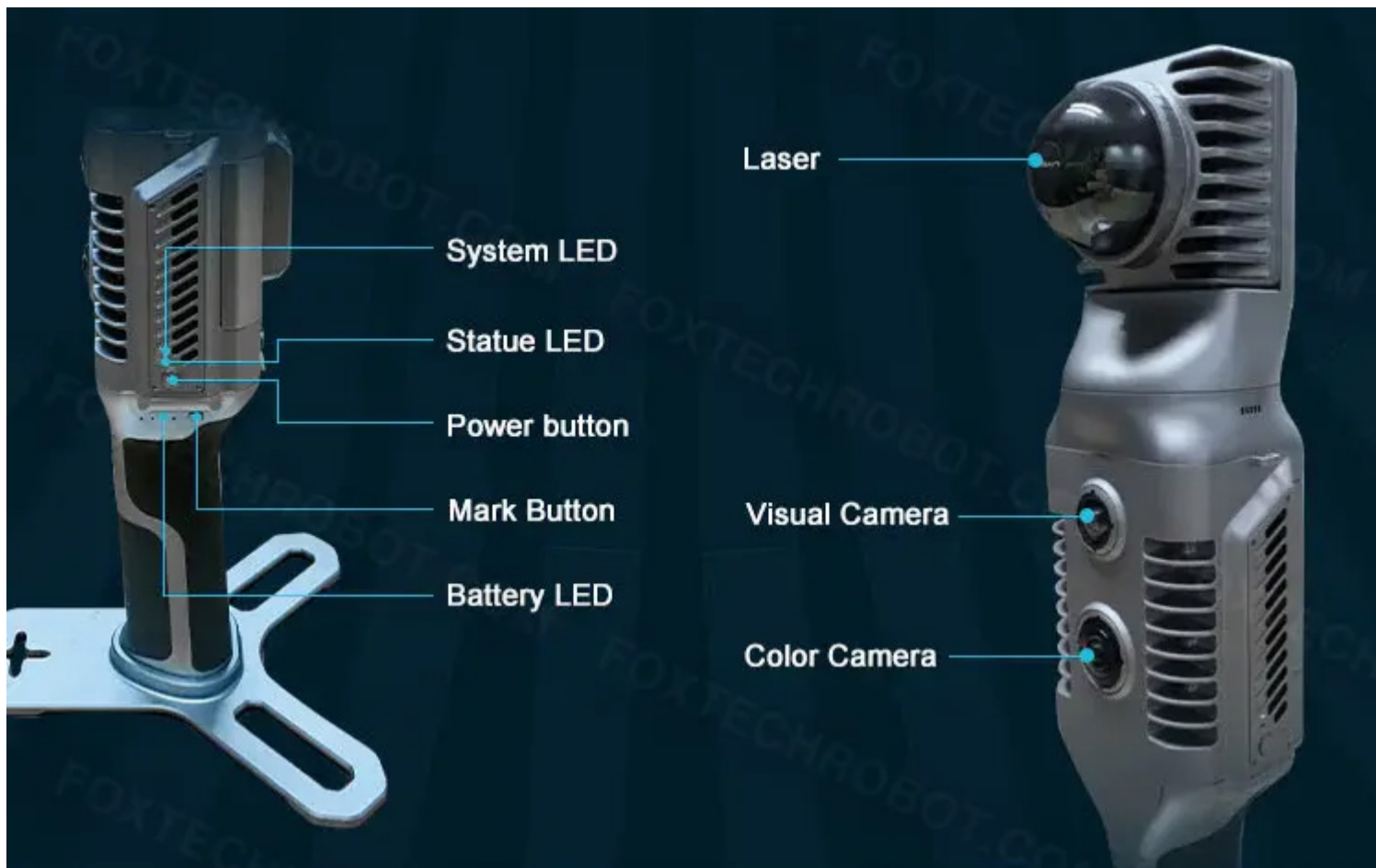SLAM2000 can be expanded to connect to a variety of external devices such as RTK, power supply, tripod, etc.

SLAM GO POST PRO

SLAM GO POST Pro is a PC software that is compatible with SLAM2000.The software can perform one-click SLAM mapping,coordinate conversion, point cloud coloring, etc., and can support point cloud browsing,editing, data roaming,measurement and other functions.

SLAM GO

Slam2000 can be widely used in closed spaces, volumetric surveying and mapping, emergency rescue, real-time navigation and other scenarios.

Laser

System LED

Statue LED

Power button

Mark Button
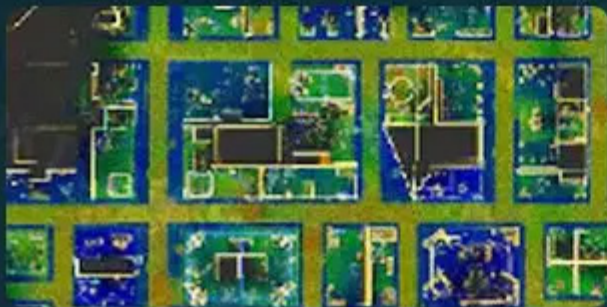
Battery LED

Visual Camera

Color Camera

Application

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Stairs

Underground Parking
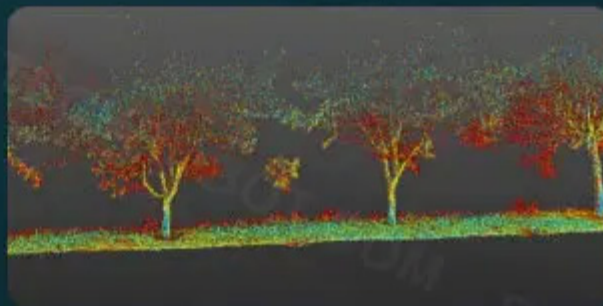
Indoor

Building

Relic History

Gardening

Product Pakage List

RTK Mount

Base

Lithium Battery Handle

Aviation Electrical Cable

Type-c Charging Cable

Charger

RTK Mounting Screws x5

Dongle

Main body

Weight	925 g (Host) 1450g (With handle and base)
Dimensions	94.5 mm x 84.6mm x 219mm (Host) 170mm X 173.8mm X 364.5mm (With handle and base)
Power consumption	20W (Typical)
Input voltage	20V
Internal storage	512 GB SSD
Working temperature	—20℃ ~ 50℃ (Operation) , -40℃ ~ 70℃ (Storage A10
Humidity	<95%
Protection class	IPS4
Scanning FOV	Panoramic360°

Accuracy

Point coud thickness	≤1cm (Post-processing) , ≤2 cm (Realtime)
Relative accuracy	**≤1cm (Post-processing) , ≤2 cm (Realtime) ***
Absolute accuracy	≤ 5cm(Post-processing)

Laser scanner

wavelength	905nm
Laser class	class 1
Range	0.1 m - 70 m @ 80%
FOV	360°(H), -7°- 52°(V)
Laser pulse repetition rate	200kHz
Echo	Single(Strongest)
Frame rate	10 Hz (Typical)

Texture camera

Resolution	12MP
CMOS size	1 inch
FOV	210° (Diagonal)
Frame rate	30 Hz

Visual camera

Resolution	12MP
CMOS size	1inch
FOV	100° (Diagonal)

Interface

USB Type-C 1	SSD data copy
USB Type-C 2	Charge by PD power bank, OTG(5V)
Circular connector	External power supply(20V), External S-RTK
WiFi	Supported

Lithium battery

Model	SP30
Input voltage	5V -20V
Output voltage	10.8V
Battery Capacity	3000mAh
Weight	400g
Dimensions	85 mm x 60mm x 144.5 mm
Endurance	Approx.95 mins(SLAM2000 only)

* In Controlled Environment