

Cygnus 2

Handheld SLAM Scanner



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The Cygnus 2 LiDAR scanner delivers industry-leading accuracy and performance, utilizing cutting edge LiDAR and visual fusion SLAM. Designed for precision and reliability, it ensures centimeter-level positioning accuracy in environments where accurate location data is crucial, and excels in real-time tracking in GPS-denied areas.



1.5cm

accuracy

1.9kg

weights

90mins

battery life



Unmatched Accuracy

Achieve precision with 1.5 cm accuracy through advanced GNSS RTK and visual SLAM integration.



Versatile Applications

Ideal for construction, surveying, mapping, agriculture, forestry, engineering, volume calculation, and emergency mapping.



Multi-Mode Point Cloud

Enhanced project efficiency with various map fusion methods, control points RTK, and breakpoint resume scanning.



Portable and Lightweight

Weighing only 1.9 kg with a 90-minute battery life, it's perfect for large projects and reduces operator fatigue.



Real-Time Processing

Instant 3D modeling and data export with powerful processors and advanced SLAM algorithms.

Software

● Desktop Processing Software & Mobile APP

The software offers comprehensive tools for real-time point cloud data processing, including:

3D Modeling and Viewing: Real-time visualization and post-processing capabilities.

Data Management: Point cloud optimization, geo-referencing, colorization, cropping, and volume calculation.

Device Control: Seamless device acquisition, live-streaming point cloud, and device status monitoring.

Benefits



• Enhanced Detail and Precision:

Capture high-density point clouds with 1 cm thickness for superior data visualization and feature identification.



• Efficient Operation:

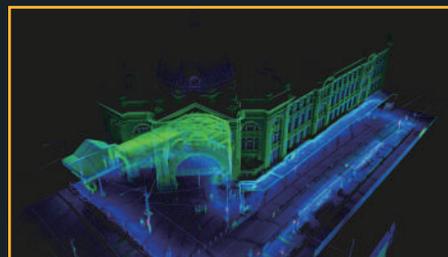
Streamline large-scale projects with advanced scanning and processing technologies.



• User-Friendly Design:

Easy one-button operation with integrated high-precision IMU, high-performance data logger, and clip-in battery for quick setup and use.

Sample Data



Applications



Topographic Mapping



Agriculture & Forestry Survey



Engineering Survey



Volume Calculation



Emergency Mapping



Underground Space

Specifications

Operation Range	0.5 m~120 m
Laser	Class 1 / 905 nm
Channels of Resolution	16
Accuracy	± 1.5 cm
FOV	360° x 270°
Points/s	320,000
Processing	Real-time solving + post processing
Display	Live streaming point cloud
Carrier	Handheld / Backpack
Scanner Weight	< 1.9 kg (with battery)
Camera	Positioning x 3
Operation Temperature	-20°C ~ 50°C
Battery Life	1.5 h
Ingress Protection	IP54
Storage Capacity	512 GB
Point Cloud Format	.las
Input Voltage	V-mount 46.8 Wh, 14.4 V battery
Power Consumption	< 30 w



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