Cygnus Lite
Lightweight handheld SLAM scanner

The lightweight **Cygnus Lite handheld LiDAR scanner** redefines data collection with its 20° tilt mechanism, dual wide-angle cameras, and an integrated RTK module.

It captures unprecedented detail and **vibrant color** in every scan, ensuring your **data** is **comprehensive** and exceptionally **accurate.**

A more **portable** and **lightweight** SLAM scanner designed specifically for 3D scanning and point cloud data collection. Weighing only 1 kg, this scanner is incredibly lightweight, making it easy to carry and handle for extended periods without fatigue. Its **sleek**, **compact design** ensures that it fits comfortably in your hand, allowing effortless maneuverability in tight or hard-to-reach spaces..

Compact design for greater coverage
Capture a wide range of scans in its standard portable configuration. The designed tilt angle has been repeatedly proven to minimize the occurrence of missing data and gaps.

Integrated RTK module for greater accuracy
Provides more stable, accurate and reliable positioning data through the combined use of RTK and SLAM technologies.
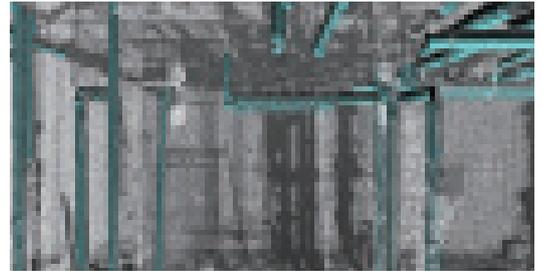* Correction to CORS is via mobile cellular network.

HD cameras for more realistic reconstruction
Incorporates two 12 MP HD cameras, capturing clear images for RGB coloring of point clouds in real time, while ensuring full coverage of the field of view.

NOVATEST
Engineering Solutions

Contact us for:
purchase, rental,
quote.

Via Albertini, 36/F8
c/o Gross Ancona
60131 Ancona (AN)

T. +39 071.2415386
info@novatest.it
novatest.it

Application:

- Volume measurement
- Scan to BIM
- Indoor mapping
- 3D reconstruction

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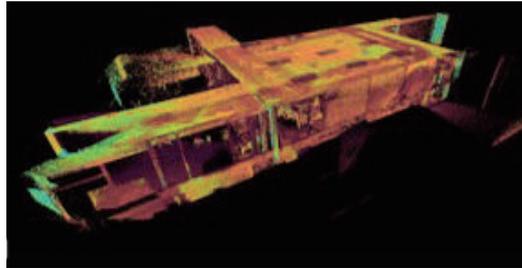T. +39 071.2415386
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Software:

Software Mobile and for PC

Point APP

In SatPoint APP on mobile, the ultimate simple plug-and-play operation allows anyone to become a 3D scanning expert in minutes. Real-time color point cloud gives you the assurance that everything you want will be seen and precisely captured.

Point PC

After scanning, SatLab SatPoint PC software can be used to generate and export point cloud data of flawless quality. Data can be measured more intuitively through the combination of image and point cloud overlay.

- Connect to CORS before starting scanning or collect GCP during collection;
- Real-time rendering in color, elevation and intensity modes;
- Batch processing of projects supported;
- Coordinate system and projection supported*;
- Photo and point cloud overlay for detailed surveying.

Technical features:

System

RTK performance	0,8 cm + 1 ppm (H) / 1,5 cm + 1 ppm (V)
Processing	Real-time processing, Post processing
Range noise	± 1 cm
Accuracy indoor	± 2,5 cm
Precision indoor	± 1 cm

Operation

SatLab SatPoint APP for Android OS	Including live 3D in colorized mode, intensity mode and elevation mode while scanning, device control, device status and data management
Android 12 or higher recommended devices	Samsung Galaxy S22, S23, S24
Support	MagSafe stand for mobile devices

Environment

Robustness	Designed for indoor and outdoor use
Temperature	Operating: -20 ~ +55°C, Storage: -20 ~ +60°C
IP Rating	IP54

LiDAR & Imaging

Camera	12 MP * 2
Camera FOV	360° x 270°
Laser class	1
LiDAR FOV	360° x 59°
Point measurement rate	200,000 pts/sec
Frequency	10 Hz
Range	0,1 ~ 40 m @ 10% 0,1 ~ 70 m @ 80%

Physical and electrical

Weight	1,0 kg (with battery)
Size (mm)	297 x 103 x 104 (with battery), 133 x 104 x 103 (mainframe)
Battery	3150 mAh * 2 (Max. 90 mins battery life for each)
Input	14,4 V
Charging	Type-C, PD-30 W (average 1.5 hr charging time)

Data transfer

Format	.las, .pcd, .ply
Detachable storage	TF Card, 256GB, max 512GB extendable
Data transfer	Wireless and USB 3.0
Desktop software	SatLab SatPoint PC

Accessories:

• Cygnus Lite Mainframe
• 2 Handle Batteries
• GCP Benchmark
• Type-C Cable
• Type-C Charger
• TF Card 256GB
• Polishing Cloth
• MagSafe Ring
• SatPoint PC USB Dongle

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