SATLAB GEOSOLUTIONS

HYPER-TECH Systems
14 Odem ST. P.O.B. 7042 Petach Tikva 4917001, ISRAEL | Office: +972-3-924-3352
Fax: +972-3-9243385 | sales@hypertech.co.il | www.hypertech.co.il

Cygnus Lite

Lightweight Handheld SLAM Scanner

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Cygnus Lite 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.

1.0 kg Lightweight

Ultimate Efficiency

Realistic Colorization

Superb Accuracy

Onboard Processing

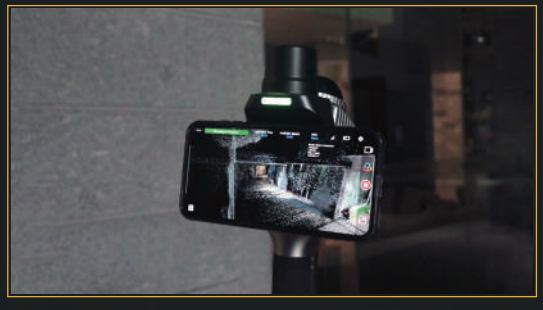
Features

Compact Design, Wider Coverage

The innovative 20° tilt angle lets the laser scanner capture a wider range of scans in its standard handheld configuration, thereby minimizing any potential data missing and gaps.

Realistic Reconstruction with Cameras

With two 12 MP HD cameras, Cygnus Lite captures clear imagery for point cloud RGB colorization with full field of view coverage, delivering highly realistic and detailed 3D reconstructions.



Enhanced Accuracy via Built-in RTK

The Cygnus Lite utilizes advanced RTK and SLAM technologies to deliver stable, accurate, and reliable positioning data. It features a high-precision multi-constellation, multi-frequency GNSS module for enhanced performance.

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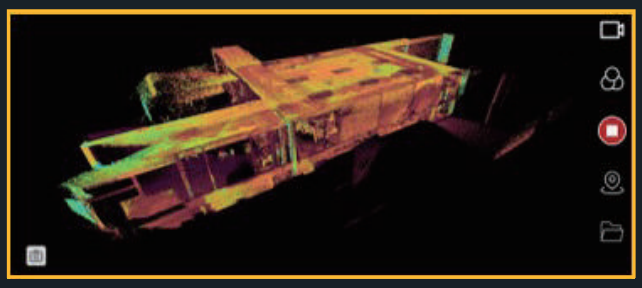
Software

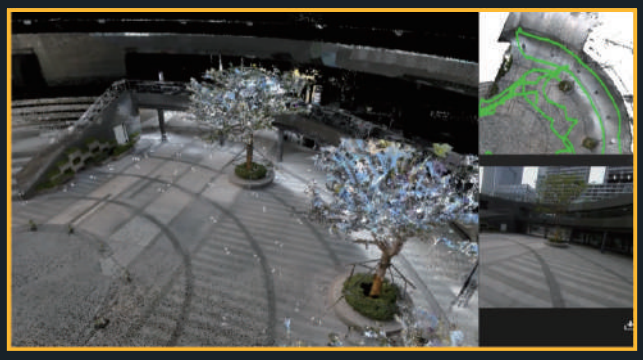
SatPoint APP

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.



SatPoint PC

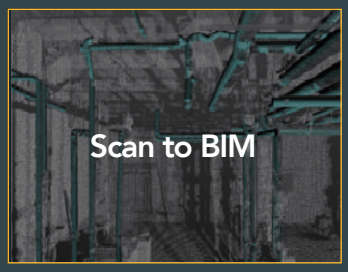
After scanning, SatLab SatPoint PC software can be used to generate and export point cloud data of flawless quality. Data can be measured more intuitively through the combination of image and point cloud overlay.



Inside the Box

- 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

Scenarios



Technical Specifications

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℃ Storage: -20 ~ +60℃
	IP Rating	IP54

LiDAR & Imaging	Camera	12 MP * 2
	Camera FOV	360 * 270°
	Laser Class	1
	LiDAR FOV	360 * 59 °
	Point Measurement Rate	200,000 pts/sec
	Frequency	10 hz
	Range	0.1 ~ 40 m @ 10% 0.1 ~ 70 m @ 80%
Physical & Electrical	Weight	1.0 kg (With battery)
	Size (mm)	297 * 103 * 104 (With battery) 133 * 104 * 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

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