SKYLANDX

MetaCam Lite

Accuracy at the Core

MetaCam Lite

MetaCam Lite brings professional-grade spatial capture to a lightweight handheld scanner, setting a new benchmark for portable scanning solutions. Powered by high-precision LiDAR for professional measurement and AI-driven SOTA-SLAM, it delivers reliable spatial data and versatile outputs for BIM, robotic simulation, and beyond.

- High-Precision Surveying LiDAR
- On-Site Deliverable Point Clouds
- Smart Scan Resumption
- Efficient Cloud Processing
- 360° Panoramic Visualization
- Open Data Ecosystem

HIGHLIGHTS

Purpose-Built LiDAR for Professional Measurement

Accuracy starts at the source. The newly designed non-repetitive LiDAR module, featuring a smaller laser spot and optimized calibration, delivers higher measurement accuracy at short-to-mid range while reducing corner noise and point distortion.

Real-Time Point Clouds, Ready to Use

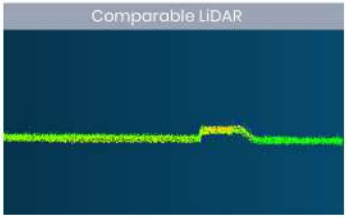
Enhanced real-time mapping accuracy, reliable on-site point clouds, supporting time-sensitive workflows.

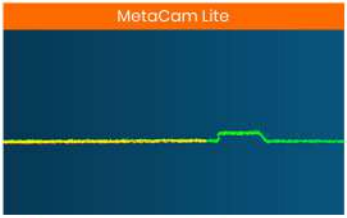
One Scan, Multiple Deliverables

Point clouds in multiple standard formats, 3DGS models, and Mesh outputs from a single scan.

FIELD TEST RESULTS

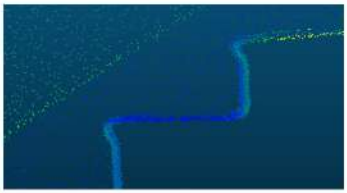
LiDAR Raw Data

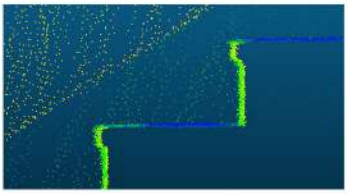




Test 1: Repeatability

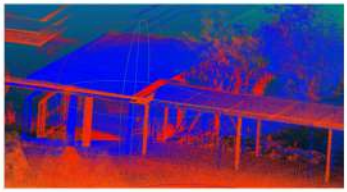
Higher measurement repeatability results in reduced point cloud thickness.

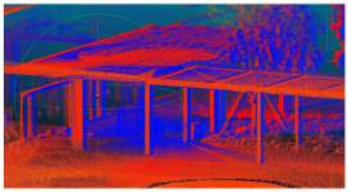




Test 2: Edge & Corner Definition

Lower corner noise enables more accurate reconstruction of 90° structure.

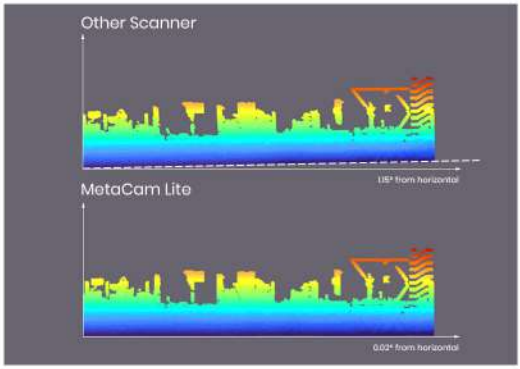


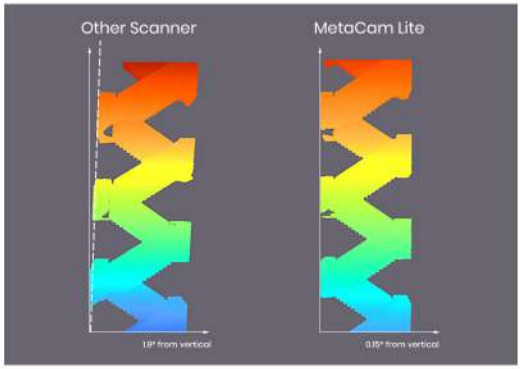


Test 3: Long-Distance Mapping Stability

Robust mapping over extended distances, even without loop closure.

Scanner Output





SOFTWARE

APP

MetaCam Go

Real-time preview and on-site scan verification.

PC

MetaCam Studio

Point cloud post-processing, optimization, and multi-format export.

CLOUD PLATFORM

MetaCam Cloud

Cloud-based processing, 3DGS generation, and online collaboration.

SPECS

General Parameters

Weight	760 g (main unit) 1,123 g (with battery)
Demensions	83.7 × 85 × 139.8 mm (main unit) 83.7 × 140 × 316.4 mm (with battery and mounting plate)
Data Storage	TF Card (128 GB included, supports up to 1 TB)
Wi-Fi	Wi-Fi 6, 2.4 GHz / 5 GHz dual-band, 20 m
Bluetooth	Supported
Ingress Protection	IP5X
Operating Temperature	-20℃ to +55℃
Storage Temperature	-20℃ to +60℃

Power

Operating Time	150 min
Operating Power	< 20 W
Battery Capacity	45.36 Wh (3150 mAh)
Battery Voltage	12.8 to 16.8 V
Charging Port	Type-C
Charging Time	120 min
Charging Power	PD 30 W

LiDAR

Number of LiDARs	1
Range	0.05 to 40 m @ 10% reflectivity 0.05 to 70 m @ 80% reflectivity
Point Rate	216,000 pts/sec
FOV	360° (H) × 65° (V) (-20° to +45°)
Laser Class	Class 1 / 905 nm
Scan Rate	10 Hz (typical)

Camera

Number of Cameras	2
Sensor Resolution	48 MP × 2 (1)
FOV	200° (H) × 200° (V) per camera
Sensor Size	1/2"

Post-Processed Accuracy

Relative Accuracy	8 mm (2)
Absolute Accuracy	5 cm (2)
Point Cloud Thickness	8 mm (2)

Key Features

Real-time Colorized Point Cloud	Supported
Point Cloud Processing Mode	SOTA-SLAM (support GCPs)
Mesh	Supported
3DGS	Supported
Scan Resumption	Supported

Output Formats

Point Cloud	LAS / PCD / PLY / RCP / E57
3DGS	PLY
Mesh	OBJ
Image	JPEG

Software Ecosystem

MetaCam Go (Mobile)	iOS / Android
MetaCam Studio (Desktop)	Windows
MetaCam Cloud	Web-based

Optional Accessory

MetaCam Hub

(1) Per-camera physical sensor resolution: 48 MP. Default output resolution: 12 MP.
(2) Measured under laboratory conditions. Actual performance may vary.

APPLICATIONS

BIM & As-Built

Interior Renovation

Utility Tunnel Mapping

Facility Management

Robotic Simulation

Heritage Digitization

SKYLANDX

Official Website: skylandx.com
E-mail: info@skylandx.com

LinkedIn YouTube