SkylandX

The New Benchmark in Precise Spatial Scanning

MetaCam Lite

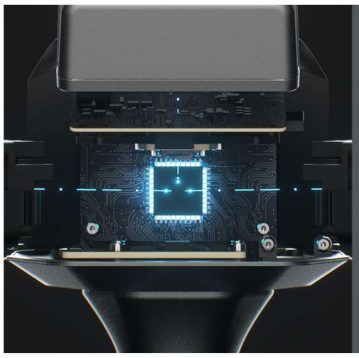
MetaCam Lite is a handheld scanner purpose-built for high-precision spatial scanning. Its survey-grade LiDAR module is optimized for near-field conditions. Hardware-software synergy delivers denser, finer point clouds at the source. Accuracy stays stable across complex geometries and challenging environments, with every detail captured. Scan data exports in standard formats, ready for BIM modeling and 3D design workflows.

- Survey-Grade Customized LiDAR
- Smart Scan Resumption
- Real-Time, Ready-to-Use Point Clouds
- Efficient Cloud-Based Post-Processing
- 3D Gaussian Splatting Reconstruction
- Open Data Ecosystem

TECHNICAL HIGHLIGHTS

Hardware-Software Synergy SOTA-SLAM, < 1 cm Mapping Accuracy

Powered by 5,000+ deployed devices and over 1 billion m² of real-world data, deeply integrated with AI and customized LiDAR for co-optimization. Robust mapping in complex scenarios, with spatial details fully captured.



TimeSync 3.0 True Microsecond-Level Synchronization, Natively Accurate Data

Hardware-level multi-sensor synchronization achieves microsecond-precise time alignment, ensuring native data consistency at the source for reliable fusion results.

Flexible Operation, Seamless Efficiency

Smart Scan Resumption enables segmented capture and automatic stitching across large scenes, removing time and space constraints. Real-time point cloud processing delivers field-ready data for urgent on-site needs.

Single Scan, Multi-Format Delivery

A single scan produces point cloud outputs in multiple standard formats plus 3D Gaussian Splatting models, compatible with mainstream modeling, visualization, and spatial data applications.

KEY SPECS

Post-Processed Accuracy

Relative Accuracy	< 1 cm
Point Cloud Thickness	< 1 cm

Camera

Sensor Resolution	12 MP × 2
FOV	200° (H) × 200° (V) per camera

General

Operating Time	110 min
Weight	760 g

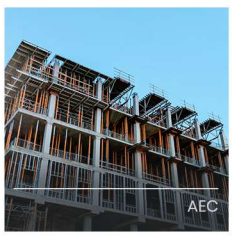
LiDAR

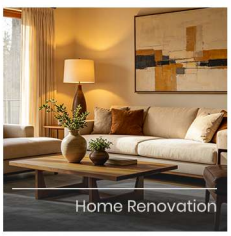
Range	0.1 to 40 m @10% reflectivity 0.1 to 70 m @80% reflectivity
FOV	360° (H) × 65° (V) (-20° to +45°)
Point Rate	216,000 pts/s
Angular Resolution	Horizontal 0.15°, Vertical 0.36°

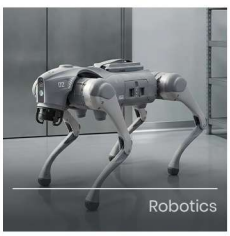
Output

Point Cloud Formats	LAS / PCD / PLY
Image Format	JPEG

APPLICATIONS







SkylandX
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Linkedin Youtube Full Specs

MetaCam Lite

SPECIFICATIONS

General

Weight	1,125 g (Main Unit: 760 g, Battery: 365 g)
Dimensions	83.7 × 85.0 × 303.4 mm (without mounting plate)
Main Unit Size	83.7 × 85.0 × 139.8 mm
Ingress Protection	IP5X
Operating Temperature	-20°C to +45°C
Storage Temperature	-20°C to +60°C
Phone Mount	Magnetic attachment

Battery

Input Voltage	9.5 to 18 V
Capacity	45.36 Wh
Operating Power	23 W
Operating Time	110 min
Charging Port	Type-C
Charging Power	PD 30 W
Charging Time	120 min

Interfaces

Wi-Fi	Wi-Fi 6, 2.4 GHz / 5 GHz dual-band, 20 m
Data Port	TF card / Type-C
USB	USB 2.0

Onboard Computing

Computing Power	6 TOPS
Memory	8 GB
Storage	256 GB (expandable)

LiDAR

Number of Units	1
Laser Class	Class 1 / 905 nm
Point Rate	216,000 pts/s
Frequency	10 Hz (typical)
Range	0.1 to 40 m @10% reflectivity, 0.1 to 70 m @80% reflectivity
FOV	360° (H) × 65° (V) (-20° to +45°)
Mounting Orientation	Horizontal

Data Processing and Output

Point Cloud Thickness	< 1 cm
Relative Accuracy	< 1 cm
Point Cloud Formats	LAS / PCD / PLY
Point Cloud Display Modes	RGB / Elevation / Intensity
Point Cloud Colorization	Real-time / Post-processing
Mapping Mode	Multi-sensor fusion SLAM
Processing Modes	Real-time / SDK post-processing

Cameras

Number of Units	2
Sensor Resolution	12 MP × 2
FOV	200° (H) × 200° (V) per camera
Sensor Size	1/2"
Shutter Type	Rolling Shutter
Output Format	JPEG