

SKYLANDX

MetaCam Air 2

Compact and Powerful



MetaCam Air 2

MetaCam Air 2 packs professional-grade reality capture into a remarkably compact body. Powered by a tightly integrated multi-sensor system and AI-driven SOTA-SLAM, Air 2 delivers high-accuracy point clouds in multiple formats, ready for downstream design and engineering applications. One seamless workflow streamlines every step from field capture to project-ready deliverables.



TimeSync 3.0



Smart Resumption



Real-Time Color Point Cloud & Scan Report



Panoramic Measurement



3DGS Reconstruction



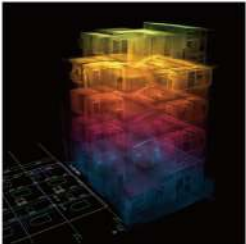
Instant Preview & Seamless Data Processing

TECHNICAL HIGHLIGHTS



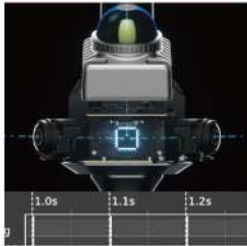
Next-Level Visualization

Flagship panoramic cameras combined with 3DGS technology enable seamless view switching. One-click export to JPG, LAS, RCP, and PLY.



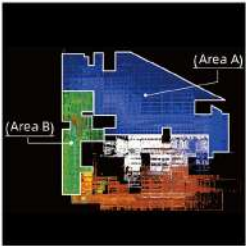
AI-Powered SOTA-SLAM

Trained on data from 5000+ devices and over 1 billion m² of real-world scans, the AI-powered SOTA-SLAM (Spatial Omni-Temporal Adaptive) algorithm delivers robust, reliable mapping.



TimeSync 3.0, True Microsecond Sync

Hardware-level multi-sensorsync achieves microsecond alignment, ensuring native data consistency and precise, reliable fusion.



Seamless Resume Scan

Supports scan resumption and auto-stitching, eliminating power anxiety and making large-scale projects effortless and efficient.

SOFTWARE



MetaCam Go

Real-time point cloud preview, on-site quality checks, and device monitoring in one interface.



MetaCam Studio

One-click point cloud processing with optimization, editing, and multi-format export-seamlessly integrated with mainstream software.



MetaCam Cloud

Cloud-based point cloud processing and 3DGS rendering with online preview, enabling cloud collaboration with no local hardware dependency.



APPLICATIONS



Digital Factory



Geospatial



Robotics



AEC



Interior Renovation



Media & Entertainment



Cultural Heritage



Forestry

General Parameters

Weight	982 g
	Battery: 363 g
	Main Unit: 619 g
Dimensions (Overall)	104 × 140 × 305.7 mm
Dimensions (Main Unit)	104 × 105 × 133.2 mm
Data Storage	TF Card (256 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°C to +55°C
Storage Temperature	-20°C to +60°C

Power

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

LIDAR

Number of LiDARs	1
Laser Class	Class 1 / 905 nm
Point Rate	200,000 pts/sec,
Scan Rate	10Hz (typical)
Measurement Range	0.1 to 40m @ 10% reflectivity 0.1 to 70m @ 80% reflectivity
FOV	360° (H) × 59° (V) (-7° to +52°)

RTK

RTK Accuracy	0.8 cm + 1 ppm (H), 1.5 cm + 1 ppm (V)
Raw Observation Logging	Supported
Supported Constellations	BDS: B1I, B2I, B3I, B1C, B2a, B2b GPS: L1C/A, L1C, L2C, L2P(Y), L5 GLONASS: G1, G2, G3 Galileo: E1, E5a, E5b, E6 QZSS: L1C/A, L1C, L2C, L5 NavIC: L5 SBAS: L1C/A

Camera

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

Post-Processed Accuracy

Point Cloud Thickness	< 1 cm ⁽²⁾
Relative Accuracy	< 1 cm ⁽²⁾
Absolute Accuracy	5 cm ⁽²⁾

Key Features

Real-time Colorized Point Cloud	Supported
Point Cloud Processing Mode	SOTA-SLAM (Support RTK, 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.

SKYLANDX

Official Website: skylandx.com

E-mail: info@skylandx.com



LinkedIn



YouTube