ViAmetris

Mœbius Serie

MS-96

MOBILE 3D SCANNER

WHERE PERFORMANCE MEETS FREEDOM

BUILT FOR

SURVEYING | CONSTRUCTION
INFRASTRUCTURE | INDUSTRY
HERITAGE | TRANSPORTATION

EXPERIENCE THE MS-96 AT WORK

Scan to meet the MS-96

A SYSTEM WITHOUT COMPROMISE

- PERFORMANCE
- MODULARITY
- FREEDOM

ACCURACY

FAST AND EFFICIENT DATA CAPTURE

SEAMLESS WORFLOW INTEGRATION

viAmetris

PERFORMANCE

CONSISTENT PERFORMANCE, ANYWHERE

DESIGNED FOR FLUID INDOOR-TO-OUTDOOR OPERATIONS

The MS-96 ensures seamless transitions between indoor and outdoor environments without compromising data quality or positioning accuracy.

ULTRA-LIGHT BACKPACK SYSTEM

The MS-96 backpack system is engineered for maximum mobility and minimal strain, enabling efficient data capture over extended periods & for any user.

BUILT FOR EVERY MISSION

The scanner can be deployed on a backpack or mounted on various platforms (car, scooter, bike, train, boat...)
It delivers consistent performance regardless of speed or configuration.

PUSHING THE LIMITS OF TECHNOLOGY

French engineering expertise focused on innovation and long-term performance.

Indoor/Outdoor with one system

With GNSS Antenna

Without GNSS Antenna

With Its remote box

MODULARITY

Adapt the MS-96 to different missions without changing equipment.
Easily switch between backpack and vehicle-mounted configurations.
A single platform designed to fit **various operational needs.**

ONE SYSTEM, FOUR CONFIGURATIONS

BACK PACK

01

Capture **railway environments** with a backpack configuration, designed for complex and constrained areas.

FRONT PACK

02

Capture **building interiors** with a front-pack configuration, a mobile and flexible system designed for complex environments.

LIGHT CAR PACK

03

Capture **road environments** efficiently with a quick-install suction-mounted vehicle setup.

PRO CAR PACK

04

Capture **large-scale road** environments efficiently with a stable, vehicle-based setup.

HJ-526-LG

VIAmetris

COMPLETE SYSTEM WITH ACCESSORIES

Supplied with all required accessories, mounting solutions, and transport equipment for **backpack**, **vehicle-mounted**, or **other deployment** configurations.

TRANSPORT-READY BACKPACK

Compact and secure transport for the full system and accessories.

ORGANIZED BACKPACK

All components neatly packed and ready for immediate field use.

ACCESSORY KIT

Antenna & Cable

Charger

Rrc battery 2054-2

Cables

FULL DATA OWNERSHIP

NO LOCK-IN. NO RESTRICTIONS

PPIMMS

VIAMETRIS' post-processing software is designed to optimize and enhance datasets acquired from mobile scanning systems.

It computes accurate trajectories by integrating inertial data with **LiDAR** measurements, ensuring high-quality results. Advanced processing techniques such as **SLAM** and loop closure maintain consistency and precision across the final point cloud.

You Own Your Data

PPIMMS software delivers a simple, guided, field-oriented workflow designed around the real working methods of surveyors, making data acquisition intuitive, efficient, and perfectly suited for demanding surveying operations.

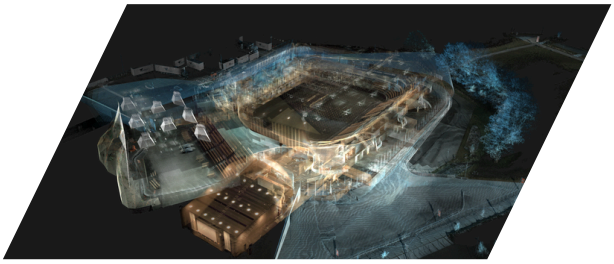
- Point cloud registration combining INS, 3D LiDAR
- GNSS Constraint
- Relative Constraint
- Ground Control Point
- Automatic Loop Closure Detection
- Point Cloud Colorization
- Point Cloud Denoising
- Point Cloud Export (LAZ, LAS, E57)
- Project Merging
- Coordinate System & Geolocalization

TECHNICAL SPECIFICATIONS

POSITIONING		PANORAMIC CAMERA SYSTEM	
INS	MEMS-based / ITAR-free	**Camera (x4)**	SONY PREGIUS-S Sensor
GNSS receiver	GPS: L1C/A, L2P, L2C, L5 GLONASS: L1OF, L2OF, L3 GALILEO: E1, E5a, E5b BEIDOU B1I, B1C, B2a, B2I, B3I QZSS L1C/A, L2C, L5	**Sensor Specs**	CMOS 1.1" Global Shutter 2.74µm x 2.74µm
Accuracy	0.01 + 0.5ppm Horizontal (XY) 0.015 + 1ppm Vertical (Z)	**Resolution per Cam**	24Mpix
Angular Accuracy	0.015° (PPK-Tight Coupling) 0.030° Heading (PPK-Tight Coupling)	**Lens**	FishEye Lens FOV 155°
SLAM	yes (6DOF)	**Sensor (x3)**	Ambient Light & Color (RGB) sensors 6x Channels @50Hz
SCANNERS		**POWER**	
Intensity	8-bits	**Input Supply Voltage**	19V (120W) Hot swappable batteries
LiDAR Accuracy	±10mm	**I/O PORTS**	
LiDAR Precision	Repeatability < 5mm (1σ) <50m @50% reflectivity	**Network**	x1 Hotspot Wi-Fi
Angular Resolution	0.18°	**USB**	x1 USB3.1 / Real Time Data Duplication
Scanning speed	1,280,000 points / sec.	**MECHANICAL**	
Detection Range	0.5m to 120 m	Weight	5.2kg (MS-96) 0.4kg (GNSS antenna) 2.5kg (remote box)
Vertical FOV	-16° to +15° (31°)	Size (lxdxh)	40x30x20cm (MS-96) 20x20x10cm (remote box)

APPLICATIONS

Built for every environment:
From indoor spaces to large-scale outdoor environments.



01
MINING / TUNNELS

02
FORESTRY / NATURAL TERRAIN

03
STREETS / HIGHWAYS

04
BUILDING / CONSTRUCTION

05
RAILWAYS

READY TO GO FURTHER?

Scan the QR code to power your projects with the MS-96 →

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