



Moebius Serie



MS-96

MOBILE 3D SCANNER

WHERE
PERFORMANCE
MEETS FREEDOM



BUILT FOR

SURVEYING	CONSTRUCTION
INFRASTRUCTURE	INDUSTRY
HERITAGE	TRANSPORTATION

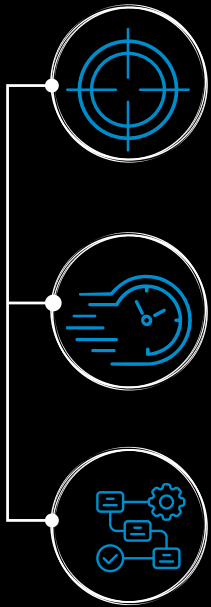
EXPERIENCE THE MS-96 AT
WORK

Scan to meet the MS-96



A SYSTEM WITHOUT COMPROMISE

| PERFORMANCE
| MODULARITY
| FREEDOM



ACCURACY

FAST AND
EFFICIENT DATA
CAPTURE

SEAMLESS
WORKFLOW
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](#).



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**



VIAmetris
 viametris.com