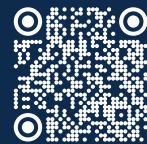




**IGI**

## Versatile **IGI STREETMAPPER-V** Mobile Mapping System



SCAN ME

### HIGH RESOLUTION 3D MAPPING

The IGI StreetMapper-V is a next-generation Mobile Mapping System engineered to redefine how geospatial data is captured and utilized. In an era where real-time accuracy is essential, the StreetMapper-V delivers unmatched performance across industries – from transportation and infrastructure to urban planning and environmental monitoring.

At the heart of the system lies a powerful combination of:

- Precision **GNSS/IMU** navigation technology with **SLAMtrack Enhancement**
- High-performance **LiDAR** sensors
- Ultra-high-resolution **panoramic** imaging



With the groundbreaking **STE – SLAM-track Enhancement**, the StreetMapper-V takes mobile mapping to the next level. This advanced SLAM (Simultaneous Localization and Mapping) technology ensures robust and reliable data acquisition even in GNSS-challenged environments such as parking garages, tunnels, urban canyons, or dense forests. SLAMtrack intelligently fuses LiDAR and IMU data to maintain spatial accuracy where traditional systems fall short.

Embrace the future of mobile mapping, where innovation converge seamlessly with the IGI StreetMapper-V.

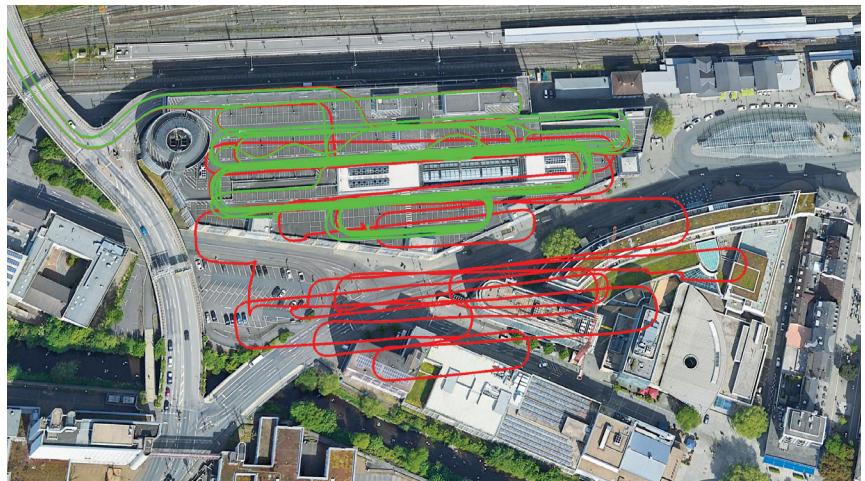


## IGI STREETMAPPER-V

<b>GNSS/IMU System</b>	IGI TERRAcontrol CM (Compact MEMS) or IGI TERRAcontrol CF (Compact FOG)
<b>Data Rate</b>	up to 600 Hz
<b>Position Accuracy</b>	0.02 m
<b>Velocity</b>	0.005 m/s
<b>Roll / Pitch</b>	CM 0.01   CF 0.003 deg
<b>True Heading</b>	CM 0.02   CF 0.005 deg
<b>Gyro-Bias</b>	CM 1   CF 0.03 deg/h
<b>Gyro Random Walk</b>	CM 0.07   CF 0.005 deg/sqrt(h)
<b>LiDAR System</b>	Up to 2 LiDAR scanners Riegl VUX   miniVUX Class 1
<b>Laser Safety</b>	250   150 scans/sec
<b>Scan Speed</b>	1800   300 kHz
<b>Pulse Frequenz</b>	5   10 mm
<b>Accuracy</b>	Unlimited   5 echoes
<b>Echoes</b>	
<b>Panoramic Camera System</b>	Flir LB 6 - 12.288 x 6.144 pixels 72MP MosaicX - 4.096 x 3.008 pixels 12.32MP x 6 = 74MP
<b>Additional Camera System</b>	Up to 3 DigiCAM-RT, 12MP Up to 3 DigiTHERM-640, 640 x 480 IR pixels



IGI StreetMapper-V with LB6 and STE LiDAR



Survey of a Four-Level Parking Facility in Siegen, Germany

Trajectory Analysis Overview

RED – Standard Trajectory: Represents the baseline navigation path without enhancements  
GREEN – Trajectory with STE – SLAMtrack Enhancement

