



SCAN ME

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

### 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.

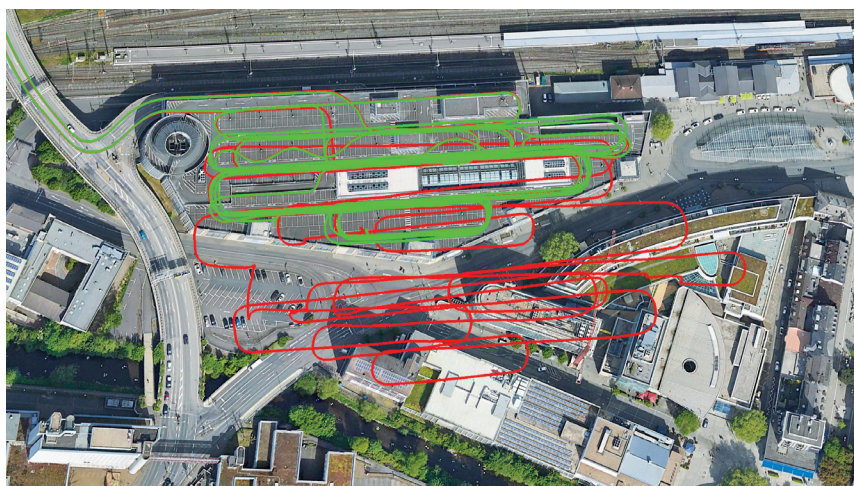


## IGI STREETMAPPER-V

<b>GNSS/IMU System</b> Data Rate Position Accuracy Velocity Roll / Pitch True Heading Gyro-Bias Gyro Random Walk	IGI TERRAcontrol CM (Compact MEMS) or IGI TERRAcontrol CF (Compact FOG) up to 600 Hz 0.02 m 0.005 m/s CM 0.01   CF 0.003 deg CM 0.02   CF 0.005 deg CM 1   CF 0.03 deg/h CM 0.07   CF 0.005 deg/sqrt(h)
<b>LiDAR System</b>  Laser Safety Scan Speed Pulse Frequenz Accuracy Echoes	Up to 2 LiDAR scanners Riegl VUX   miniVUX Class 1 250   150 scans/sec 1800   300 kHz 5   10 mm Unlimited   5 echoes
<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

