



## Spatiall Origin

Capture large-scale infrastructure data with **ultimate flexibility**.

Spatiall Origin is your mobile gateway to scalable geospatial intelligence. Engineered for scale, speed and accessibility, this in-house developed all-in-one unit transforms any standard vehicle into a mobile mapping system in minutes.

Mapping urban infrastructure, road networks, or assets in remote areas? Spatiall Origin delivers reliable data at speed and scale – ready to be analyzed by Spatiall AI.

### Key features

- **All-in-one unit, mounted and removed in 2 minutes**

Lightweight aluminium frame with cameras, sensors and processing power.  
Mounts easily to almost any car with roof rails and roof-rack support.

- **High-precision capture**

Combines spherical imagery, dense point clouds, and GNSS/IMU data in real-time.

- **Modular design**

Supports multiple use cases without requiring custom engineering.

- **Scalable from single cars to large fleets**

Delivers consistent, calibrated data across your entire fleet, ready for streamlined processing via Spatiall OS.



Contact & Info



## Technological specifications

| Component         | Specification                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------|
| Camera system     | Teledyne Ladybug 6 (72 MP) 360° camera                                                                                   |
| LiDAR             | Hesai Pandr XT 32 (120m, 32 lasers)                                                                                      |
| GNSS/INS          | Applanix AP+ system full constellations                                                                                  |
| Mounting          | Modular aluminium roof frame with quick-release system. Mounted on Thule Wingbar Evo.                                    |
| Power supply      | 24V battery, 110-220 VDC                                                                                                 |
| Power consumption | <150W                                                                                                                    |
| Control unit      | A computer with the SW to control the system is inside the main unit, 15" control display is provided with the equipment |
| Dimensions        | Core Module Carrier 1700 x 430 x 108 mm<br>Core Module LiDAR 540 x 325 x 260 mm<br>Core Module Camera 346 x 255 x 622 mm |
| Weight            | Core Module Carrier 20 kg<br>Core Module LiDAR 10 kg<br>Core Module Camera 10 kg                                         |
| Connectivity      | ODU Full cabling set for easy integration and data transfer                                                              |
| Data exchange     | Easy extractable 4TB SSD                                                                                                 |
| IP Rating         | IP 65                                                                                                                    |
| Internal HD       | 2 TB internal drive                                                                                                      |
| Accessory         | Second antenna, mechanical wheel sensor, 5G modem for RTK correction.                                                    |

\* preliminary technical data sheet

## Ready for end-to-end workflows

Spatiall Origin is more than hardware, it is the first step in a seamless, AI-powered data-to-decision workflow.

### Combined with:

- **Spatiall OS** - the software suite for managing mobile mapping operations
- **Spatiall AI** - automated asset detection, classification, localization, inventory, and inspection
- **Spatiall Studio** - user-friendly digital platform to turn reality data and asset information into actionable insights

... you get an all-in-one mapping ecosystem: mobile, scalable, and ready to roll.