



SLS-1 Mobile Laser Scanner



- **Compact and light weight**
- **Fully integrated high precision LiDAR, GNSS and IMU**
- **Industry leading 30MP 360° Spherical Camera**
- **Full integration of cloud and image in industry standard export formats**
- **Simple to operate with no calibration required.**

The Satlab SLS-1 Mobile Scanner is light weight and compact enough to be mobilise by a single operator and provides high-density point cloud and colour image overlay. Combining high definition LiDAR, Military spec IMU, Professional GNSS positioning and 360° imaging the SLS-1 captures accurate high resolution mobile data.

The single head high precision LiDAR can capture up to 700,000 points per second and is orientated to cover a corridor of up to 100m either side of centre. The spherical high definition camera has 6 sensors covering 360° field of view using 6 sensors of 5MP each giving total resolution of 30MP.

All data collected by each of the sensors is time stamped by an internal clock then using the included SW suite is combined to product an accurate geo referenced point cloud with digital image overlay which can then be exported to third party extraction software for further analysis.

SLS-1

Mobile Laser Scanner

Technical Specifications



General

Type : Integrated mobile laser scanner
Temperature Range : -10°C - +45°C
Vehicle Speed : 30-60 Km/h



Laser Scanner

Sensor : Velodyne HDL-32
Range : 80-100 meters
Density : Up to 700.000 pts/sec
Horizontal Field of View : 360°
Vertical Field of View : +10° to 30°
Safety : Class 1
Accuracy : ± 2 cm



Positioning

Type : "Tactical Grade" Inertial System with tightly coupled GNSS integration Accuracy
GNSS Sensor : NovAtel OEM 617
GNSS Accuracy : 5mm+1ppm RMS
IMU Sensor : KVH 1750
IMU Accuracy : Roll: 0.005 (Deg. RMS), Pitch: 0.005 (Deg. RMS), Heading 0.017 (Deg. RMS)



RGB Camera

Type : Industrial Spherical Camera
Sensor : Ladybug 5
Resolution : 6 x 5MP (30MP)
Field of View : 90% of Full Sphere



Distance

Distance Measurement Indicator (DMI): Available

