



- · 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 500,000 points per second and is orientated to cover a corridor of up to 650m 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.



Technical Specifications



General

Туре

Temperature Range Vehicle Speed



Sensor Technical Specifications

Distance Measurement Mode Pulse

Laser Classification

Laser Pulse Repetition Rate Minimum Measurement Range Maximum Measurement Range Range Measurement Accuracy

Repeatability Precision Maximum Scan Speed

Angle Measurement Resolution

Field of View

Data Transmission Interface External Time Synchronization

Operation Voltage Power Consumption Main Dimension

Weight

Operation Temperature Storage Temperature



Positioning Accuracy

Type

GNSS Sensor GNSS Accuracy **IMU Sensor IMU** Accuracy



RGB Camera

Type Sensor Resolution Field of View



Distance

Distance Measurement Indicator (DMI): Available



: Integrated mobile laser scanner

: -10°C - +45°C

: 30-60 Km/h

: 1545nm

: Class 1 (Safe for human eye)

: 500kHz : 1.5m : 650m

 $: 4mm(@192m, \rho = 60\%)$

: $6mm(@192m, \rho = 60\%)$

: 200Hz : 0.0088° : 360°

: Giga Ethernet : PPS,GPRMC

: 24V DC :<100W

: 304mm×191mm×169mm

: Approx. 6.1Kg : -20~+55°C : -40~+65°C



: NovAtel OEM 617 :5mm+1ppm RMS

: KVH 1750

: Roll: 0.005 (Deg. RMS), Pitch: 0.005 (Deg. RMS),

Heading 0.017 (Deg. RMS)

: Industrial Spherical Camera

: Ladybug 5 : 6 x 5MP (30MP) : 90% of Full Sphere



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