

ScanLook 2.0 "Snoopy" Mobile Mapping System



Key Features

Multiple lasers for high definition and minimal shadowing

Geo-referencing using a variety of INS system.

Super compact for easy mounting and transport

Static and mobile scanning versatility

Affordable on any budget



**Fagerman
Technologies**

1-256-274-1616

Size Matters

Very small size allows for easy transport and deployment on a variety of vehicles. Can attach to any vehicle roof top, front or back of vehicle, windshield, etc., via suction cups for secure mounting and scratch-free contact. Easily attached to other surfaces using commonly found tools such as pipe clamps. Can be easily leveled to almost any vehicle surface.

INS Components

Configurable with NovAtel ADIS, STIM300, CPT, FSAS or LCI-100 in RTK or Post Processing (PP) modes. Uses Inertial Explorer for PP solutions. Additional configurations available upon request.

Scanner Configurations

Can be configured with 1 or more Velodyne HD32's, FARO FOCUS 120 or x330's, or Z+F scanners. Factory boresight. A variety of range and accuracy options.

Supported Application Software

A wide variety of application software is supported by simply creating the appropriate output formats and manageable file sizes. This includes Virtual Geomatics 4D, Orbit GT, TopoDOT, Carlson Software, Autodesk, and many more.

Post Processing Software

Uses NovAtel's Inertial Explorer software for trajectory calculation in PP mode. In RTK mode no trajectory processing is necessary. Custom software to combine raw scan data with trajectory into high fidelity point clouds. Control point registration included. Outputs most common point cloud file formats (LAS, LAZ, text).

Control Software

No large storage or controlling computer is necessary. Any laptop can be used to control the system. Whenever possible the native scanning software is used directly to minimize learning curve and training (FARO FOCUS). A very simple, robust system of control is provided via the laptop, maximizing available vendor's software.

Base stations

Combined with CHC base stations to best match the selected INS, both RTK and PP data collection modes are supported. Very rugged, long battery life, lots of data storage. Simple interface.

Key Benefits

- Easy Mounting
- Easy Transport
- Safe
- Configurable
- Re-usable data
- Affordable.



Comparison of ScanLook Scanners

| SCANNER | FOCUS 120 & X330 | VELODYNE | Z+F 9012 |
|---|---|---------------------|--------------------------------------|
| DATA RATE KHZ | 976 | 700 | 1,000 |
| SCAN FREQ HZ | 100 | 5 to 20 | 200 |
| FOV (DEG) | 305 | 360 | 360 |
| RANGE M | 120 (65) to 330 | 100 (80) | 120 |
| PRECISION MM | 1 | ~10 | 1 |
| ACCURACY MM | 1 | 10 | 1 |
| # RETURNS | 1 | 1 | 1 |
| LASERS | Phase | 32 TOF | Phase |
| SYSTEM | | | |
| MOUNTING | Anywhere | Anywhere | Hitch/Roof top |
| PORTABILITY | Very Flexible | Fantastic | Very easy |
| WEIGHT LBS | 20 | 13 | 42 |
| SCANNER SIZE (IN) | 9.5x8x4 | 3x5 | 13x10.5x13.5 |
| SECURITY | Yes | Yes | Yes |
| SHIPPING EASE | 2 carry-ons | 1 carry-on | 1 carry-on, 1 checked |
| CONTROL I/F | | Laptop / Tablet | |
| ENV. RESISTANCE | --- | IP 67 | IP 54 |
| TEMP RANGE C | -5 to 40 | -10 to 40 | -10 to 45 |
| CALIBRATION | | Factory | |
| STATIC/TRIPOD | Yes, dual purpose | No | No (other models yes) |
| INS | | | |
| IMU'S | NovAtel (ADIS, CPT, FSAS, LCI-100), Others coming (IXBlue, SBG) | | |
| GPS | L1/L2, PP; GPS, GLONASS, *Galileo, *Compass | | |
| TRAJECTORY | NovAtel Inertial Explorer, RTK, more coming | | |
| APPLICATIONS | Surveying, engineering (roads, etc.) | Mapping (> 0.05 ft) | Surveying, engineering (roads, etc.) |
| SHADOWING | 1 scanner – lots, 2 scanners less | Almost none | Lots |
| POWER | | | |
| INPUT VOLTAGE | 6 to 34 VDC | 8 to 14 | |
| POWER CONSUMPTION W | 250 | 50 | See Scanner specifications |
| PRICES (US\$K) STARTING AT | 70 (w/o FARO) | 95 | 155 |
| Can also be configured with other static scanners (Z+F) | | | |