



SCOUT-32

The **SCOUT-32** is a robust, mid-range member of the Scout Series. This lightweight system collects survey-grade data with an AGL range up to 65m. An excellent option for building high-density point clouds of smaller scan areas, customize your **SCOUT-32** with photogrammetry, hyperspectral, thermal imaging, and additional options.

FEATURES

- » Best accuracy among SCOUT Series models
- » Engineered to optimize weight & accuracy
- » Mount on a multi-rotor drone, ground vehicle, or backpack
- » Modular upgrades: Dual LiDAR Sensors; High-Res DSLR; RGB GigE Cam; thermal, hyperspectral cameras; panoramic/spherical cameras & more

QUICK SPECS

Absolute Accuracy
35-55 mm RMSE @ 50 m Range

PP Attitude Heading RMS Error
0.019 / 0.074 ° IMU options

Weight
2.4kg /5.3lbs.

Dimensions
24.6 x 11.6 x 11.6 (cm)

Laser Range
107 m @ 60% Reflectivity

Scan Rate
700 k points/s, up to 2 returns

APPLICATIONS

- » Oil & Gas Surveying
- » Utilities Mapping
- » Railway Track Mapping
- » Agriculture & Forestry Monitoring
- » Construction Site Surveying
- » Open Pit Mining Operations
- » General Mapping

PLATFORM

OVERALL DIMENSIONS (Sensor)	24.6 x 11.6 x 11.6 (cm)
OVERALL DIMENSIONS (Nav Box)	9.8 x 11.6 x 11.6 (cm)
OPERATING VOLTAGE	12-28 V
POWER CONSUMPTION	-50 W
OPERATING TEMPERATURE	-10° - +40° C
WEIGHT (incl. Nav Box)	2.4 kg

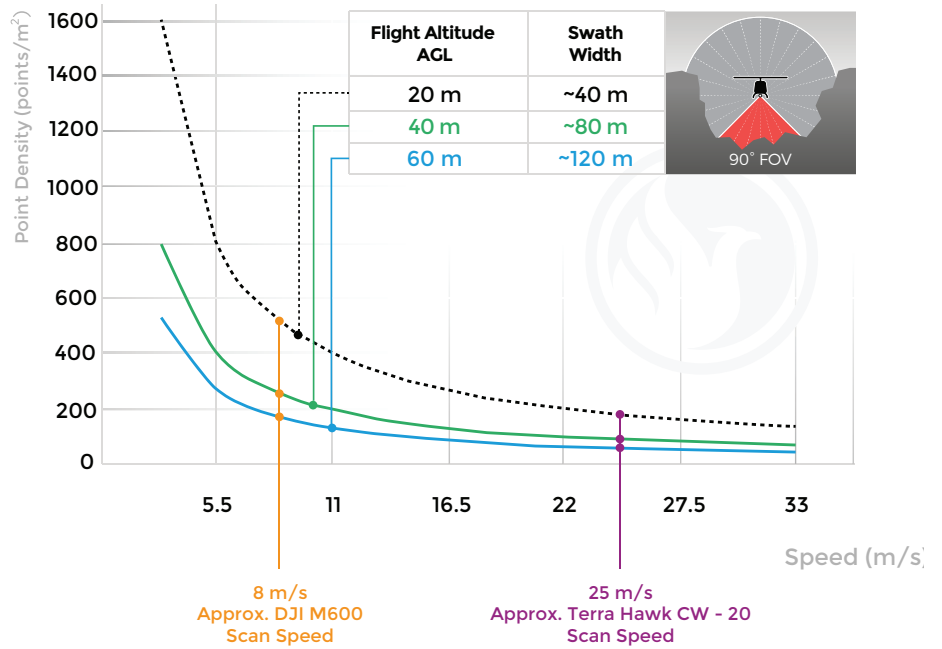
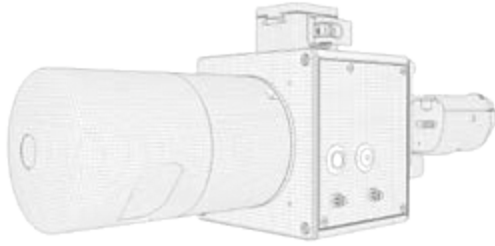
LiDAR SENSOR

LASER PROPERTIES	905 nm Class 1 (eye safe)
RANGE MIN / MAX / RESOLUTION	1.0 m / 100 m / 2 mm
MAX EFFECTIVE MEASUREMENT RATE	700,000 meas./s
HORIZONTAL FIELD OF VIEW	360°
VERTICAL FIELD OF VIEW	41.33° (10.67° to -30.67°)
ACCURACY	Up to ±2 cm
SENSOR CLASSIFICATION	IP67
BEAM DIVERGENCE H x V	2.79 mrad (0.159855°) / 1.395 mrad (0.079928°)
LASER BEAM FOOTPRINT H x V	8.3 cm x 4.1 cm @ 25 m
	15.2 cm x 7.6 cm @ 50 m
	22.2 cm x 11.1 cm @ 75 m
	29.2 cm x 14.6 cm @ 100 m

NAVIGATION SYSTEM

CONSTELLATION SUPPORT	GPS+GLONASS+BEIDOU +GALILEO
SUPPORT ALIGNMENT	Kinematic, Single-Antenna
OPERATION MODES	Real-time, Post-processing optional
ACCURACY POSITION	1 cm + 1 ppm RMS horizontal
PP ATTITUDE HEADING RMS ERROR	0.019° / 0.074° IMU options

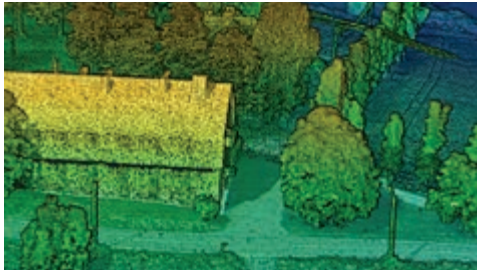
MAX MEASUREMENT RANGE & POINT DENSITY SCOUT-32



The following conditions are assumed for the Operating Flight Altitude AGL

- targetsize ≥ laser footprint
- average ambient brightness
- operating flight altitude given at a FOV of +/- 90°

SCOUT-32 POINTCLOUDS



PHOENIX SOFTWARE SUITE INCLUDED



PLS Software Suite

Phoenix LiDAR Systems provides a proprietary complete software suite for streamlined, mission planning, acquisition, georeferencing, data fusion & export.

Explore the effects that different parameters have on your data before you fly. Estimate your data quality and reduce costs by experimenting with various flight paths, altitudes, and other variables using the **Phoenix Flight Planner**.

Streamline your LiDAR acquisition, georeferencing, data fusion and exporting with: **PLS Spatial Explorer** to enable in-field QA/QC and cut down wait-time on extensive photogrammetry applications by creating colorized point clouds; & **PLS Spatial Lighthouse** to stream real-time corrections for RTK trajectories and in-flight QA/QC.

SAVE TIME, GROW YOUR BUSINESS



Automated Post-Processing in the Cloud

Meet **LiDARMill**, the first cloud-based LiDAR post-processing platform that enables surveying teams to take advantage of precision laser mapping without investing in expensive post-processing software and training.

Processing your LiDAR data in the cloud has never been easier. View your data, track project status, and invite clients to view point clouds – all from your LiDARMill dashboard with faster turnaround times and lower overhead costs.

LiDARMill can be customized to serve any size organization, from small survey teams to government departments with heavy post-processing requirements. Contact sales@phoenixlidar.com for pricing and packages.

EXPLORE A PHOENIX LiDAR SYSTEM FOR YOUR TEAM, CONTACT US!

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