

THE SCOUT

The Scout is an excellent combination of weight, cost, performance & capabilities. Modular components exist for LiDAR mapping, multi/hyperspectral sensing, hybrid-SLAM and photogrammetry. Multiple options exist for higher density and/or more accurate point clouds.



FEATURES

- » Real-time point cloud transmission option via 4G or long-range wifi
- » Fully autonomous, can be mounted on any drone, car, boat and/or even backpacks - works in multiple orientations
- » 360° field of view
- » Modular upgrade options: Dual LiDAR Sensors, DSLR, GeniCam, GigEVision, thermal, multispectral, hyperspectral & custom sensors
- » Optional IMU and dual-GPS upgrade
- » SDK option for Real-time point cloud data
- » Designed by surveyors for surveyors



AUTOMOTIVE MOUNT



AERIAL MOUNT

QUICK SPECS

Absolute Accuracy
55mm RMSE @ 50m Range

PP Attitude Heading RMS Error
0.019 / 0.074° IMU options

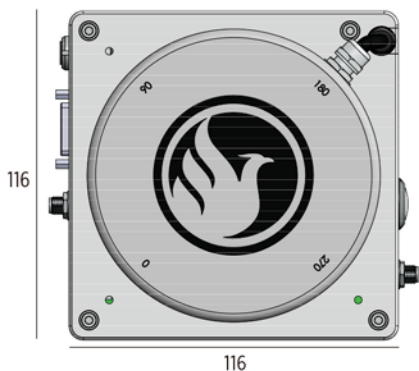
Weight
1.6kg / 3.5lb

Dimensions
16 L x 11.6 W x 11.6 H (cm)

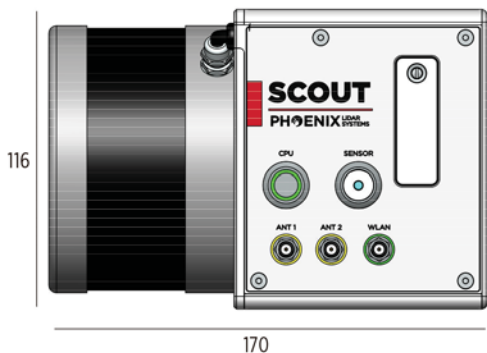
Laser Range
80m @ 60% Reflectivity

Scan Rate
300k shots/s, up to 2 returns

Scout | Front View



Scout | Side View



Values in millimeters

PLATFORM

OVERALL DIMENSIONS	160 x 116 x 116 mm
OPERATING VOLTAGE	12-28 V
POWER CONSUMPTION	-40 W
WEIGHT	1.65 kg
OPERATING TEMPERATURE	-10° - 40° C

NAVIGATION SYSTEM

CONSTELLATION SUPPORT	GPS, GLONASS
SUPPORT ALIGNMENT	Kinematic, Dual-Antenna
OPERATION MODES	Real-time, Postprocessing optional
ACCURACY POSITION	1cm + 1ppm RMS horizontal

LIDAR SENSOR

LASER PROPERTIES	Class 1 (eye safe), 905 nm
RANGE MIN / MAX / RESOLUTION	1.0 m / 120 m / 2mm
RMS RANGING ERROR	30 mm
SCAN RATE	300k shots/s, up to 600k points/s
FIELD OF RANGE	±15° Vertical / 360° Horizontal FOV
MULTIPLE ECHOES	2
NUMBER OF LASERS/PLANES	16
RECOMMENDED SCANNING HEIGHT AGL	20 - 60 m

Pointcloud Density

