



QUICK SPECS

Absolute Accuracy 55 mm RMSE @ 40 m Range

PP Attitude Heading RMS Error 0.019° / 0.074° IMU options

Weight 1.65 kg / 3.64 lbs

Dimensions 16.0 x 11.6 x 11.6 (cm)

Laser Range 50 m @ 60% Reflectivity

Scan Rate 300 kHz, up to 2 returns

APPLICATIONS

猤 » Utilities Mapping » Construction Site Surveying » Agriculture & Forestry Monitoring » Open Pit Mining Operations

» Stockpile Volumetrics

General Mapping » General

SCOUT-16

The SCOUT-16 is an excellent lightweight, entry-level system with a 40-meter recommended AGL. A strong fit for smaller scan areas and teams on a budget. Customize your Scout-16 with photogrammetry, hyperspectral, thermal imaging, and additional options.

Flexibility in sensing and mounting options is a key benefit of this Phoenix system. The SCOUT-16 is designed to fly on UAVs, including the DJI M600 Pro, and can also be adapted for vehicle and backpack configurations.

FEATURES

- » Compact and lightweight
- » Visual Range: 360° field of view
- » Flexible Mounting: Mount on a drone, vehicle, or even backpack
- » Multi-Target Capacity-up to 2 target echoes per laser shot
- » Fast and accurate measurement 300k shots/s, up to 600k points/s

PLATFORM

OVERALL DIMENSIONS (Sensor)	16.0 x 11.6 x 11.6 cm
OPERATING VOLTAGE	12-28 V
POWER CONSUMPTION	40 W
OPERATING TEMPERATURE	-10° - +40° C
WEIGHT	1.65 kg / 3.64 lbs

LIDAR SENSOR

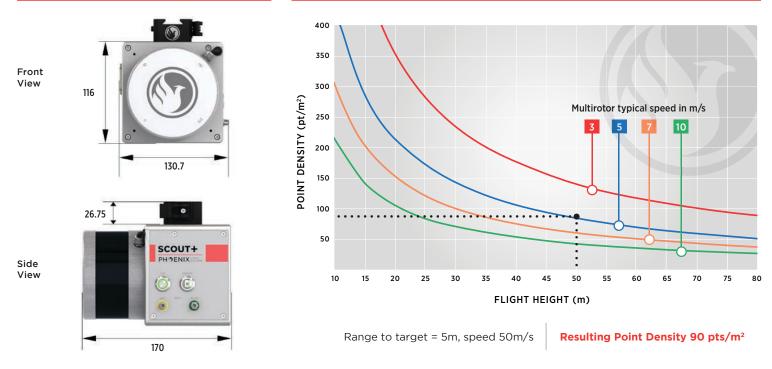
LASER PROPERTIES	Class 1 (eye safe), 905 nm			
RANGE MIN/MAX RESOLUTION	1.0 m / 100 m / 2 mm			
RMS RANGING ERROR	30 mm			
SCAN RATE	300k points/s, up to 600 points/s dual return mode			
FIELD OF RANGE	±15° Vertical / 360° Horizontal			
MULTIPLE ECHOES	2			
# OF LASERS	16			
RECOMMENDED SCAN HEIGHT	20 - 60 m AGL			

NAVIGATION SYSTEM

CONSTELLATION SUPPORT	GPS+GLONASS+BEIDOU +GALILEO
SUPPORT ALIGNMENT	Static, Kinematic, Dual-Antenna (optional)
OPERATION MODES	Real-time, Post-processing optional
ACCURACY POSITION	1 cm + 1 ppm RMS horizontal

SCOUT-16 DIMENSIONS (MM)

POINT DENSITY SCOUT-16



CAMERA ACCESSORY OPTIONS

Integrating RGB, thermal, or hyperspectral sensors with your LiDAR system has never been easier. With our customizable solutions, you will be able to provide complex analysis and offer dynamic geospatial products to meet any applications needs.

A6K-Lite	Dual A6k-Lite	Sony 7R3 / A7R4	A6K-Lite + Thermal PT640	A6K-Lite + Nano-Hyperspec	A6K-Lite + Thermal PT640 + Nano-Hyperspec	Ladybug option for ground mount*
Added Weight: 220g	Added Weight: 450 g	Added Weight: 1.1 kg	Added Weight: 380 g	Added Weight: 885g	Added Weight: 1.09 kg	n/a





Aerial Mount (DJI M600 Pro Integration)



Ground Vehicle Roof Rack & LadyBug Mount



Backpack Mount

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

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