

**KEY FEATURES & BENEFITS**

- » **Very Compact and Lightweight**  
1.9 kg / 4.18 lbs.
- » **360° Field of View**
- » **Robust Phoenix Design**  
Durable Aluminum Heatsink Body
- » **Multi-Target Capacity**  
Up to 2 target echoes per laser shot
- » **Fast and Accurate Measurement**  
300k shots/s, up to 600k points/s



The Phoenix Scout-16 is an excellent entry-level, lightweight system with a 40 meter recommended AGL. An strong fit for smaller scan areas and teams on a budget, the Scout-16 also features options for photogrammetry, hyperspectral, thermal imaging, and more.

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.

**Find a Scout that's right for you!**

**Need higher accuracy?** See Scout-32 or Scout Ultra.

**On a budget?** Ask about our Scout LITE package.

**Why Scout-16?**

- » **Operating Range:** Up to 40 m @ 40% Reflectivity
- » **Live Data Feed:** View and analyze data in real time
- » **Remote Data View:** Transmit live data to remote viewers via 4G connection
- » **Flexible Mounting:** Mount on a UAV, vehicle, or backpack
- » **Acquisition Upgrades:** Dual LiDAR Sensors; High-Res DSLR; RGB GigE Cam; thermal, hyperspectral cameras; panoramic/spherical cameras; and more
- » **Data Precision Upgrades:** IMU Upgrade Options, Dual GPS Antenna Upgrade Options
- » **Visual Range:** 360° field of view

# SCOUT-16



- » Precision Agriculture & Forestry
- » Construction Site Surveying
- » Light Vegetation & Canopy Penetration
- » Open Pit Mining Operations
- » Stockpile Volumetrics
- » General Mapping

**QUICK SPECS & DIMENSIONS**



The **Scout-16** is UAV-agnostic, and is commonly integrated with DJI M600 Series UAVs.



A truly flexible system, the **Scout-16** can also be integrated with the **Phoenix Ground Vehicle Mount**, which enables options like the LadyBug5 360° camera.

**SYSTEM INFORMATION**

Dimensions (Sensor)	16 x 11.6 x 11.6 cm
Operating Voltage	12-28 V
Power Consumption	~40 W
Operating Temperature	- 10° to 40° C
Mounting Options	Multi-rotor, Backpack, Vehicle
Ground Vehicle Options	Roof Rack
Accessories	RGB, DSLR, Thermal, and more
Weight	1.9 kg / 4.18 lbs.
Recommended Scan Height	40 m
Absolute Accuracy	55 mm RMSE @ 40 m Range

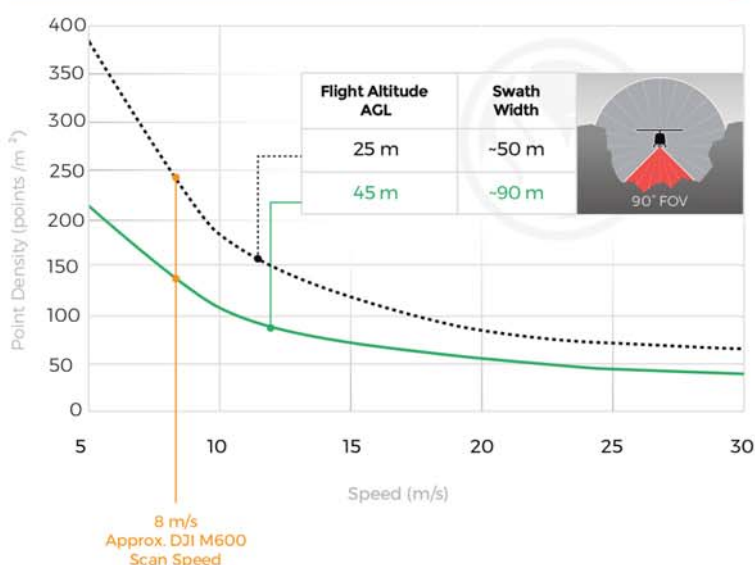
**LIDAR SENSOR**

Laser Properties	Class 1 (eye safe), 905 nm
Range Min/Max	1.0 m / 100 m
Scan Rate	300,000 shots/s, Up to 2 returns
Field of View	30° Vertical / 360° Horizontal
Multiple Echoes	2
No. of Laser Planes	16

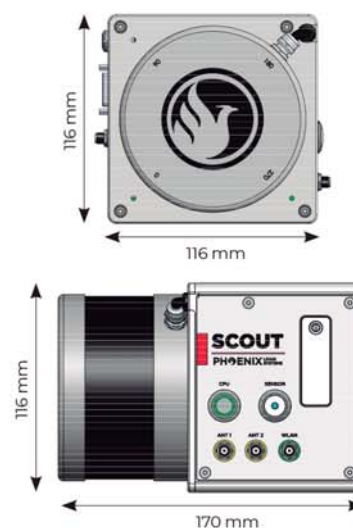
**NAVIGATION SYSTEM**

Constellation Support	GPS, GLONASS
Support Alignment	Kinematic, Dual-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

**POINT DENSITY BY SPEED & ALTITUDE**



**DIMENSIONS**



**Explore a Phoenix LiDAR System for your team. Contact us!**