











QUICK SPECS

Absolute Accuracy

20 / 30 mm RMSE @ 75 m Range

PP Attitude Heading RMS Error 0.018°

Weight

2.2 kg / 4.85 lbs

Dimensions

243 x 111 x 85 (mm)

Laser Range

290m @ 60% Reflectivity

Scan Rate

300k shots/s, up to 5 returns

APPLICATIONS



Oil & Gas Surveying



» Utilities Mapping



Agriculture & Forestry Monitoring



» Construction Site Surveying

Railway Track Mapping



» Open Pit Mining Operations



General Mapping

miniRanger-3 LITE

The **miniRanger-3 LITE** is designed to provide survey-grade LiDAR data and imagery (optional) on an ultra-lightweight platform. Packed with options, the **miniRanger-3 LITE** leverages Phoenix's years of experience and industry leading LiDARMill software platform to provide a seamless user experience. Optional mobile and backpack mounting options along with several imaging sensors provide the flexibility required to address every application. With the photogrammetry package, operators of mid-size multirotors, can now simultaneously acquire survey-grade LiDAR data and high resolution 61 MP photogrammetry at up to 100 m operating flight altitude.

FEATURES

- » 100 kHz, 200 kHz, and 300 kHz laser pulse repetition rate (PRR) for greater point density at altitude
- » Includes the new AIR NavBox for increased range & flexibility
- » Significantly lighter (37%) than miniRANGER providing increased range and flexibility
- Modular and upgradable for maximum project flexibility, supporting single/dual RGB, multispectral, and panoramic cameras, as well as wheelsensor and SLAM options
- » Multiple IMUs supported to customize the product to your project needs
- » Automated boresighting, strip matching and project validation with LiDARMill

PLATFORM

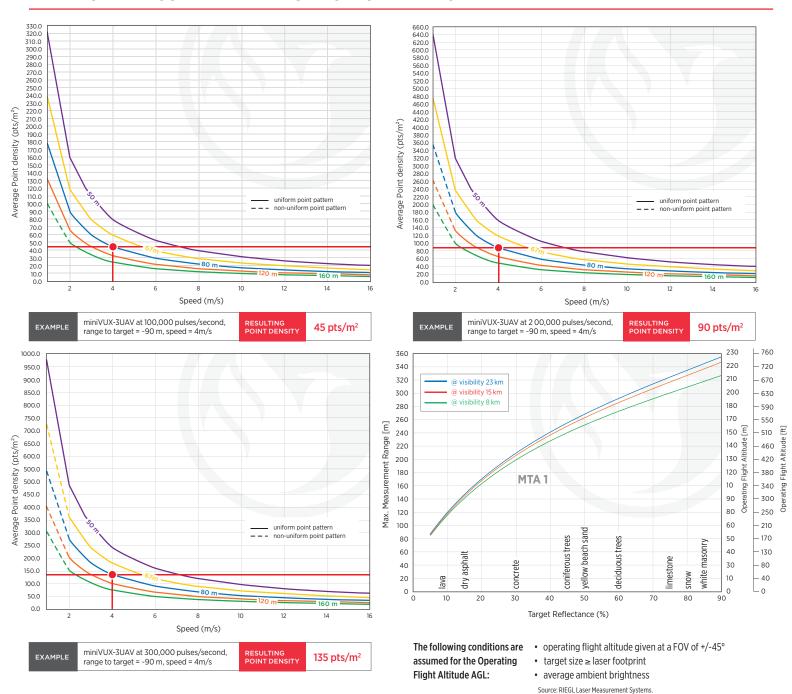
OVERALL DIMENSIONS (SENSOR)	243 x 111 x 85 mm
OPERATING VOLTAGE	14 - 28 V DC
POWER CONSUMPTION	35 W typical
OPERATING TEMPERATURE	0° - 40° C
WEIGHT (INCLUDING AIR NAVBOX)	2.2 kg / 4.85 lbs

LIDAR SENSOR

NAVIGATION SYSTEM

CONSTELLATION SUPPORT	GPS + GLONASS + BEIDOU + GALILEO
SUPPORT ALIGNMENT	Kinematic, Dual-Antenna
ACCURACY POSITION	1 cm + 1 ppm RMS horizontal
PP ATTITUDE HEADING RMS ERROR (IMU upgrades available)	0.018°

MAXIMUM MEASUREMENT RANGE VS. POINT DENSITY



miniRanger-3 LITE CAMERA OPTIONS



OTHER OPTIONS &
ACCESSORIES AVAILABLE
CONTACT SALES REP

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

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