









QUICK SPECS

ABSOLUTE ACCURACY 2 - 4 cm RMSEz @ 100 m AGL^{(1) (2) (4)}

INTRASWATH PRECISION 4 cm RMSDz @ 100 m AGL^{(1) (2) (3)}

WEIGHT 1.8 kg (without camera)

PULSE RATE 640 kHz, up to 3 returns

LINE RATE 1000 kHz

APPLICATIONS

¢٣ CONSTRUCTION SITE SURVEYING

AGRICULTURE & FORESTRY MONITORING

OPEN PIT MINING OPERATIONS

STOCKPILE VOLUMETRICS

п'n GENERAL MAPPING

(1) Approximate values based on PLS test condition.

(2) Using a 90° downward field of view

(3) Expected RMSEz when following the PLS recommended acquisition & processing workflow and ASPRS check point guidelines.

(4) Range of elevation values on flat surfaces with >20% reflectivity at the laser's wavelength (5) Estimated post processed accuracy with IMU-25.

SCOUT-M2X



flexibility and affordability. It brings a new level of precision and accuracy to the long trusted SCOUT lineup of multichannel mapping scanners.

Long range, high pulse rate and triple return capability allow for UAV acquisitions of more data faster through vegetation. Dense survey data can be collected by nearly any method; UAV, Mobile, Backpack, and more. The SCOUT-M2X is also SLAM capable, taking you where others cannot.

FEATURES

- Fast and accurate measurements with a 640 kHz pulse rate scanner
- Live control and feedback during acquisition, including Phoenix's signature real-time point cloud
- SLAM (Simultaneous localization and mapping) capable
- Integrated high resolution camera options up to 61 MP

PLATFORM

OVERALL DIMENSIONS*	17.7 x 11.6 x 12.3 cm
OPERATING VOLTAGE	12-28 VDC
OPERATING TEMPERATURE	0° - 40° C / 32° - 104° F
POWER CONSUMPTION*	~30 W
WEIGHT*	1.8 kg

LIDAR SENSOR

LASER PROPERTIES	905 nm Class 1 (eye safe)
RANGE MAX	300 m (80 m @ 10% for all channels)
RANGE MIN	0.5 m
NUMBER OF LASERS	32
PULSE RATE	640 kHz
LINE RATE	10 Hz
VERTICAL FIELD OF VIEW	40.3° (-20.8° to +19.5°)
VERTICAL RESOLUTION	1.3°
HORIZONTAL FIELD OF VIEW	360°
MULTIPLE ECHOES	3
LASER BEAM FOOTPRINT H X V	19 cm x 22 cm @ 80 m, 24 cm x 27 cm @ 100 m, 28 cm x 33 cm @ 120 m

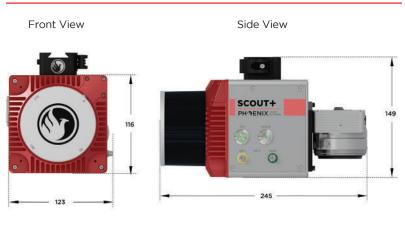
NAVIGATION SYSTEM

CONSTELLATION SUPPORT	GPS + GLONASS + BEIDOU + GALILEO
SUPPORT ALIGNMENT	Kinematic, Dual-Antenna
POSITION ACCURACY	1 cm + 1 ppm RMS horizontal
ACCURACY ATTITUDE ⁽⁵⁾ ROLL, PITCH HEADING	0.003° RMS 0.010° RMS

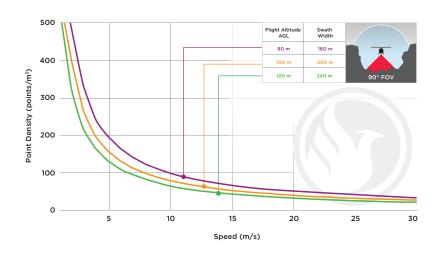


*Without Accessories

SCOUT-M2X DIMENSIONS (mm)



SCOUT-M2X POINT DENSITY



Channel 1 Lippon Channel 1 Lippon Channel 16 Channel 16

The vertical resolution is 1.3° across the field of view.

SCOUT-M2X OPTIONS & MOUNTS





EXPLORE A PHOENIX LIDAR SYSTEM FOR YOUR TEAM, CONTACT US! PhoenixLiDAR.com • sales@phoenixlidar.com • USA +1.323.577.3366

