PHOENIX LiDAR SYSTEMS

AEROMEDIA
ESPECIALISTAS EN DRONES

DISTRIBUIDORES EN ESPAÑA Y PORTUGAL

THE ALPHA AL3-16

The Alpha AL3-16 contains all you need to collect precise survey data. Quality control the data in real-time and create a very dense and accurate georeferenced point cloud. The Alpha LiDAR sensor is easily upgradeable for future sensor options.

FEATURES

- High accuracy due to precision Fiber Optic Gyro IMU
- Fully autonomous, can be mounted on any drone, car, boat and/or even backpacks
- Real-time point cloud transmission option via 4G or long-range wifi
- Easily upgradable for future LiDAR sensors
- **Modular upgrade options:** Dual LiDAR Sensors, DSLR, GeniCam, GigEVision, thermal, multispectral, hyperspectral & custom sensors
- Accuracy independently verified by a third-party, ask for a copy of the white paper
- Designed by surveyors for surveyors

AUTOMOTIVE MOUNT

AERIAL MOUNT

AEROMEDIA UAV S.L. 981 901 768 aeromedia@aeromedia.es /aeromedia1

www.aeromedia.es - AEROMEDIA UAV S.L. Pol. Industrial de Iñás. Vivero de Empresas nave 8. 15171 Oleiros. A Coruña

QUICK SPECS

Absolute Accuracy
25 / 35 mm RMSE @ 50m Range

PP Attitude Heading RMS Error
0.009 / 0.017° IMU options

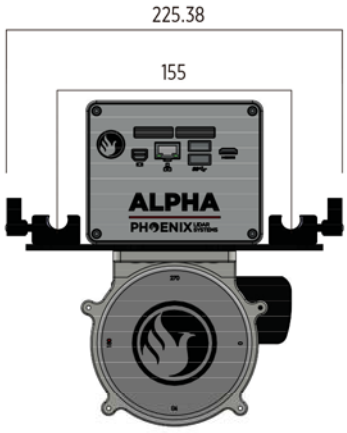
Weight
2.5kg / 5.5lb

Dimensions
29 L x 14 W x 22 H (cm)

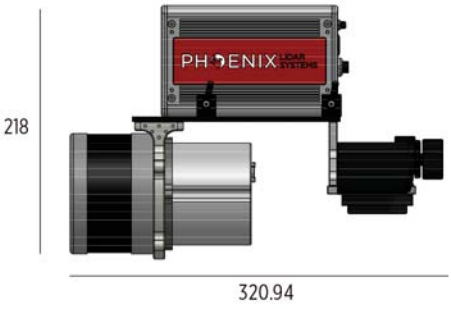
Laser Range
107 m @ 60% Reflectivity

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

AL3-16 | Front View



AL3-16 | Side View



Values in millimeters

PLATFORM

OVERALL DIMENSIONS	243 x 225 x 217 mm
OPERATING VOLTAGE	12-28 V
POWER CONSUMPTION	~40 W
WEIGHT	2.2 kg
OPERATING TEMPERATURE	- 10° - 40° C

NAVIGATION SYSTEM

CONSTELLATION SUPPORT	GPS, GLONASS
SUPPORT ALIGNMENT	Static, 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	315° Vertical / 360° Horizontal FOV
MULTIPLE ECHOES	2
NUMBER OF LASERS/PLANES	16
RECOMMENDED SCANNING HEIGHT AGL	20 - 60 m

Pointcloud Density