

LIBERTY - 64 -

UAV LiDAR System



300+ Points
Per square meter



AGL
100 Meters



60+ Acres
One Flight

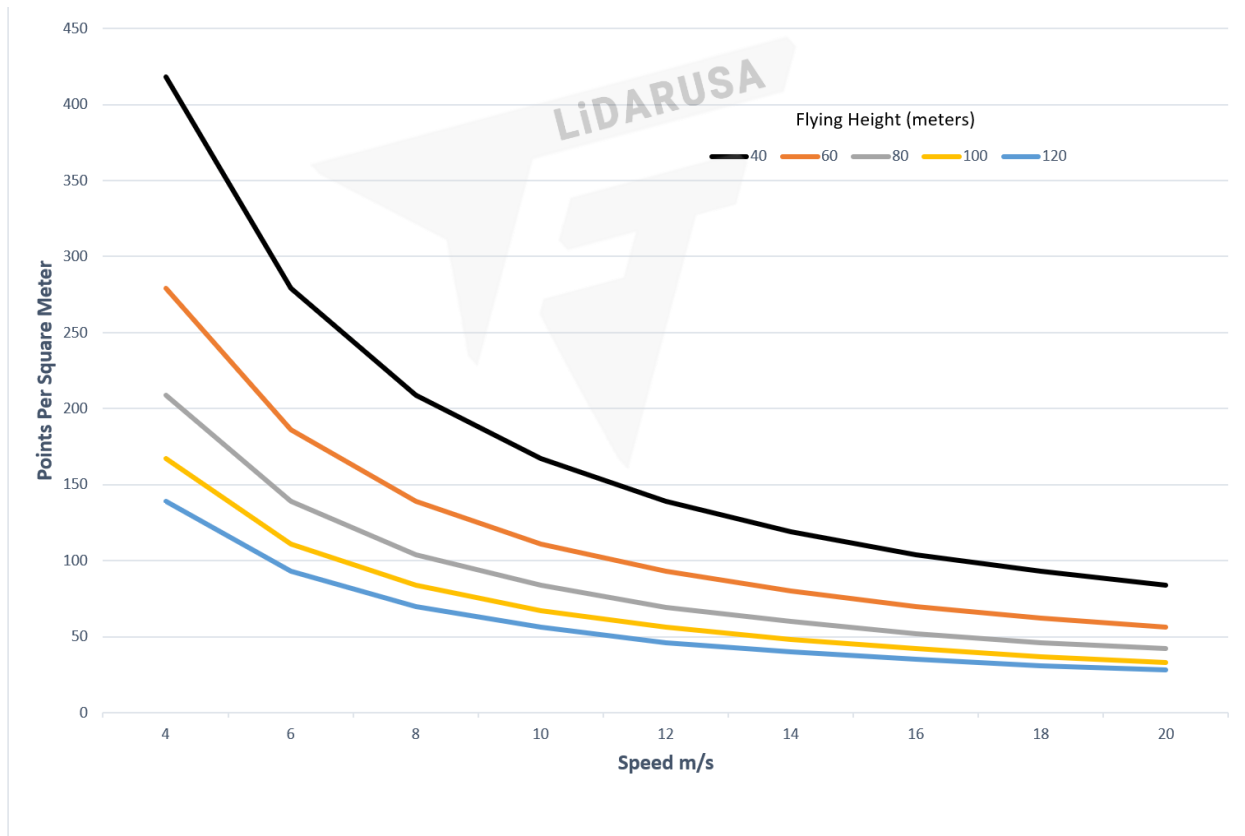


<2.5 cm
@40M AGL



1.733kg





Dimensions / Weight:

- 3.5 inches tall
- 8.75 inches long
- 4.375 inches wide
- Weight ~1.73kg
- 10-30VDC
- 25 Watts

Storage:

- External Storage (500mb to 1TB)
- Internal Storage (500mg)

Software

- Strip to strip matching
- Control point adjustment tool
- Point cloud filtering
- Automatic turn removal
- .las / .laz and other export formats
- Any coordinate system including custom ones
- Meters / feet / int. feet
- Local computer license (NDAA compliant)

Software

Our Software has been developed and fine-tuned over the course of 20+ years, led by our founder and CEO, Jeff Fagerman. As a Licensed Land Surveyor and Computer Engineer, Jeff created ScanLook PC to be user friendly and powerful. Employing the latest machine learning our software allows customers to process LIDAR Data very fast, much faster than conventional Photogrammetry.

We provide the complete software suite for acquisition, geo-referencing, data merging, post-processing, and export.

LiDARUSA ScanLook PC and PPK creates trajectory and post-process inertial data and GNSS data and combines it with control points from the raw data, and uses a state of the art control point adjustment algorithm, the end result is a control point adjusted georeferenced point cloud. Output formats are numerous; las, laz, txt, XYZ, e57....

Export directly to topoDOT, AEC, Bentley, Microstation, Trimble Business Center, and VisionLiDAR formats to name a few.

The screenshot displays the ScanLook PPK software interface with the following sections:

- Project Setup:** Project Directory (D:\12.SupportData\DouglasWA), IMU File (Snoopy-INS-LP2-11-02-2022-10-49-10-Snoopy.imr), Profile (Drone).
- Drone Setup:** Drone Setup File (DouglasWA_001), Antenna Offset (X: 0.089m, Y: -0.006m, Z: -0.301m), IMU Rotation (X: 180°, Y: 0°, Z: -90°), GNSS File (Snoopy-INS-LP2-11-02-2022-10-49-10.220), Time Range (2022-11-02 22:49:36 to 2022-11-02 23:05:22).
- Base Station:** Manual mode selected, Base Station File (98273062.22o), Time Range (2022-11-02 22:28:54 to 2022-11-02 23:24:58), Latitude (N 47° 30' 6.7410"), Longitude (W 119° 43' 22.8842"), Ellipsoidal Height (497.727 m), Receiver Type (Trimble), Base Setup File (Standard2m), Instrument Height (2 m), Point ID (DouglasWA_001), Latitude (N 47° 30' 6.7549"), Longitude (W 119° 43' 22.9525"), Ellipsoidal Height (497.097 m), Input Datum (WGS84). A "Verified" status is shown.
- Results Output:** Saved Settings (custom), Output Datum (NAD83(2011)), Map Projection (SPC_Washington), Zone (SPC_Washington North - 4601), Units (LidarUSA_US_survey_foot), Geoid (Geoid99_conUSA).
- Messages:** Base Station fully overlaps GNSS data, Found previous estimated base station, Base station verified.

Buttons include "Process", "Verify", "Push to Point ID", "Save", "Reset", and "Advanced". A drone icon is visible in the bottom left corner.