

Mobile 3D Mapping
System



SOLUTION

High Definition (HD) Maps



Address: 2120 University Ave, Berkeley 94704, California, USA

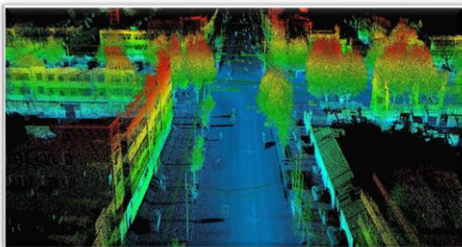
E-mail: info@greenvalleyintl.com

Tel: +1 (510) 345-2898

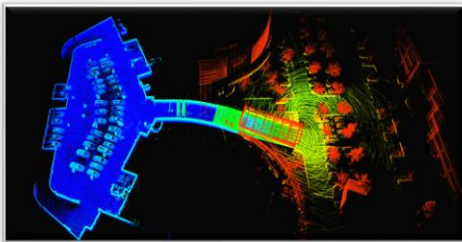
HD Map Solutions

Data Acquisition

- GreenValley International's diversified set of HD mapping technologies are designed to acquire data in both indoor and outdoor environments.
- SLAM algorithms allow GreenValley International's HD mapping systems to function properly in GNSS-denied settings.



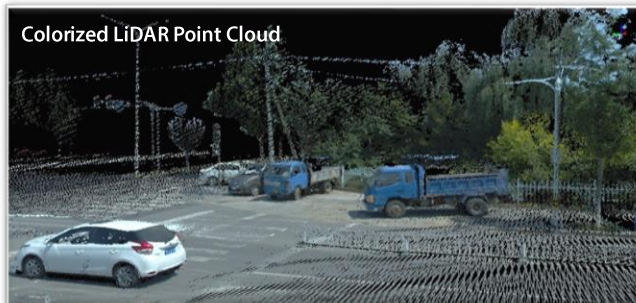
Outdoor environment



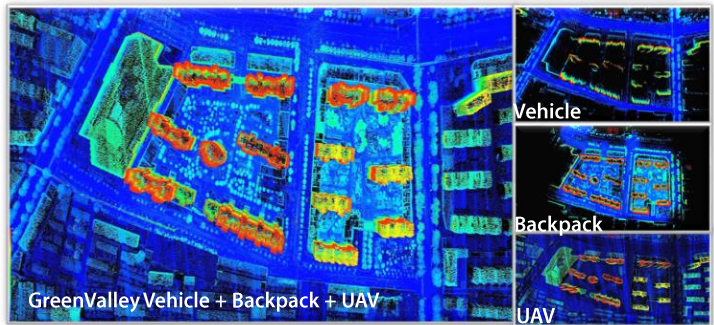
Indoor environment

Data Fusion

- Spatially overlapping images and point clouds can be merged or fused using GreenValley software solutions for creating colorized 3D data sets in HD.
- Fusion of LiDAR collected from multiple data collection platforms (e.g. vehicle, backpack, and UAV) can create HD maps that provide maximum 3D spatial coverage.



Colorized LiDAR Point Cloud



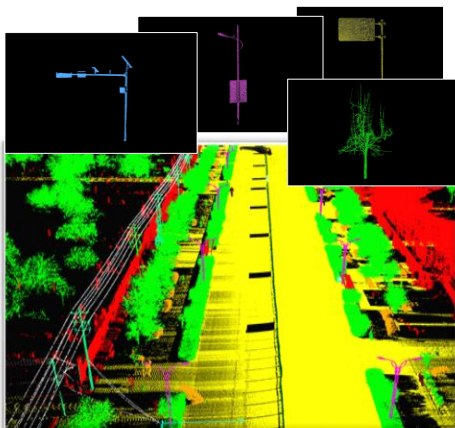
Vehicle

Backpack

UAV

Object Detection

- GreenValley International develops powerful software tools that automate detection, classification, and extraction of key HD map objects and elements.
- Efficient routines for processing massive volumes of point cloud data.



Vectorization & Mapping

- GreenValley International software solutions can be used to easily vectorize, symbolize, and edit HD map elements extracted from 3D point cloud data and imagery.

