

## TESTIMONIAL

*Having Vantage 3D help us with establishing existing building drawings has had a tremendous effect on the accuracy of our plans and has virtually eliminated the need for return trips and follow up visits. I am a huge fan, and am loving my new competitive advantage!*

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GROUND-BASED  
LIDAR SCAN



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**3D SCANNING FOR  
ARCHITECTURE,  
ENGINEERING, AND  
CONSTRUCTION**



## GROUND-BASED LIDAR: MAPPING INTERIOR PRECISION

Our ground-based lidar scanners boast the capability to capture up to 680,000 measurements per second. Ideal for interior mapping, these scanners excel at providing intricate details of tighter spaces such as building interiors or immediate building surroundings. Ground-based lidar ensures precision and completeness.

This method is conducted using a tripod-mounted sensor. Our approach involves capturing measurements at regular intervals, ranging from 5 to 25 feet, across the entire scan area. This meticulous process ensures a continuous and complete scan, delivering detailed data for a thorough understanding of the environment.

## LIDAR TECHNOLOGY: UNLOCKING PRECISION AND EFFICIENCY

Lidar, or Light Detection and Ranging, is a cutting-edge technology revolutionizing the way we capture and analyze spatial data. By emitting laser beams and measuring their return time, lidar scanners generate highly detailed 3D maps of environments, offering unparalleled accuracy and efficiency.

### BENEFITS OF LIDAR TECHNOLOGY:

1. **Precision:** Lidar delivers precise measurements, enabling detailed mapping and modeling.
2. **Efficiency:** With rapid data capture rates, lidar accelerates the measuring process.
3. **Versatility:** Ground-based lidar excels in interior mapping, while aerial scanners can cover expansive outdoor areas.
4. **Comprehensive Insights:** Aerial lidar provides a holistic view, capturing landscapes, slopes, and beneath tree canopies.
5. **Data Accuracy:** Lidar ensures high data accuracy, crucial for informed decision-making.

## PHOTOGRAMMETRIC AERIAL- BASED SCANNING: ELEVATING EXTERIOR SCANNING

Aerial-based scanning leverages high-resolution photographs to create detailed 3D models of structures. This ensures a level of clarity and precision that is essential for exterior structure mapping.



## AERIAL DRONE-BASED LIDAR: ELEVATING SPATIAL INSIGHTS

Taking lidar technology to new heights, our aerial drone-based scanners capture 240,000 measurements per second. This aerial advantage makes them superior for mapping larger sites, slopes, and ground beneath tree canopies. By soaring above, our scanners unveil a comprehensive view of landscapes, ensuring thorough data collection in challenging terrains.

