



Avvir OnSite.

Welcome to our one-stop shop for your construction reality capture needs. Our team of experts are dedicated to providing accurate and cost-efficient onsite reality capture services by employing the latest capture technology.



Onsite Field Services

Terrestrial Scanning

We use state-of-the-art terrestrial laser scanners with survey grade accuracy capturing up to 2 million points per second. Terrestrial laser scanners are known for high accuracy dense point cloud data.

Mobile Scanning

Avvir utilizes mobile laser scanners to capture up to 200,000 square feet a day while producing high quality accurate point cloud data.

Currently only available in the Northeast region.

360° Photo Capture

We deploy the latest 360° cameras to capture high-definition 360° images and video walkthroughs on the job site.

Drone Survey (Coming Soon)

Utilizing the latest drone and photogrammetry technology our experienced and licensed pilots are able to capture spaces that humans can not safely reach; like slab edges of super tall highrises, bridges, or other project environments that could be hazardous.

Onsite Analysis Services

Scan to BIM

Our team has extensive experience in converting point cloud data to a BIM model with the LOD of your choice. Our AI software enables us to automatically QA our Scan-to-BIM offerings and ensures unparalleled accuracy.

Scan vs BIM (Deviation Analysis)

Our AI compares your BIM model to the captured scan data to detect any inaccuracies in the BIM model.

Floor Flatness

We utilize point cloud data to generate precise, accurate, and easy to understand floor flatness reports.

Plumbness Analysis

Utilizing the point cloud data captured in the field we produce accurate plumbness analysis reports of walls, elevator shafts, and more.

Benefits of Reality Capture

Improves Quality and Accuracy

Having access to accurate reality capture data from the start of the project really helps elevate the quality of work produced.

Provides Rapid Information

Reality capture data is accessible quickly to all the teams involved.

Reduces Manual Labor

Point clouds eliminate the need to manually measure elements in the field and the uncertainty of knowing if something is built correctly. 360° images give everyone access to the site virtually to see exactly what is being built and the stage of the project.

Streamlines Coordination

3D laser scanning and photo capture helps improve coordination and collaboration of all the parties involved.

Cuts Cost

By reducing the manual labor and streamlining the coordination process reality capture cuts the overall cost of the project.

Increases Safety

Laser scanners can be used to measure elements from a distance and drones can get where it is not safe for workers to go.

