Trimble SiteVision

Augmented Reality & Reality Capture solution

Instant visualization. Immediate verification.

Trimble® SiteVision® is an affordable, high-performance reality capture and augmented reality solution that puts professional-grade data in the hands of the entire project team.

Eliminate the wait for specialist crews. With SiteVision, site superintendents, engineers, and inspectors can perform high-accuracy lidar scans and visualize complex 3D designs in real-time. Whether you are verifying an installation, documenting as-builts, or communicating design intent, SiteVision provides the tools for immediate decision-making and seamless cloud collaboration.

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Features that work for you

- Supports BCF topics
- Visualization tools
- Model positioning
- Reporting
- Works with a range of BIM file formats
- Reality capture via lidar with direct sync to the cloud

01 Building Construction

Build with confidence

Transform complex data into simple and clear visualizations that give context to critical information on the jobsite—all from a user-friendly augmented reality app on your mobile device.

Capture as-built conditions via reality capture with iOS lidar

Document as-built progress with quick and easy lidar scanning to create 3D geolocated point clouds. Easily view and compare captured pointclouds in the context of the 3D model using Trimble Connect® cloud software.

Real-time communication, real-time results

Increase productivity and profitability by enabling collaborative conversations between subcontractors, workers and teams. Visually identify problems and make informed decisions to solve issues in real time, on-site.

Get more value on-site from BIM models during construction with SiteVision

SiteVision uses data from your BIM models stored in Trimble Connect, and enables you to communicate and collaborate with your project team and sub-contractors through an easy-to-understand visualization of all the details in the data model.

See what you can do with Trimble SiteVision

Works with models from SketchUp®, Tekla Structures®, Autodesk AutoCAD®, Autodesk Navisworks® and Autodesk Revit®

- Visualize 3D models & 2D PDF plans on the site at real world scale
- Capture geolocated 3D point cloud scans
- Document issues with BCF Topic support
- Integrates seemlessly with Trimble Connect
- Accurately place models indoors with QR Marker support

02 Civil Construction and Inspection

See your plan for success

Trimble SiteVision is a simple, augmented reality system that uses your field device to visualize complex construction, road, rail, and site designs with superior accuracy. From bulk earthworks to finished final grade surfaces, you can communicate and problem-solve in real time. See all captured measurements and as-builts updated instantaneously in the Trimble cloud.

On-site and in context

SiteVision enhances project understanding and efficiency at all construction stages. It supports new designs, field crew changes, temporary works, inspections, productivity assessments, grade checking, and quick as-built measurements. You can view and share designs at any phase or create in-field designs at 1:1 scale. SiteVision also aids in planning, visualization, progress checking, measuring, and issue identification, reducing costs and boosting efficiency. Achieve high-accuracy GNSS measurements by pairing SiteVision with a Trimble DA2 GNSS receiver. Moreover, unlock the ability to measure points remotely with the integrated EDM in the Trimble HPS2 handle. As a system this enables confident mobile device operations from concept to completion.

Ready for real-time reporting?

With real-time reporting from the field to the office, you can eliminate delays with instant change order requests to more efficiently manage costs and minimize safety hazards. Just capture a geolocated augmented reality photo of a problem area showing the design in the context of the actual site conditions and send it as a traced, actionable request for change.

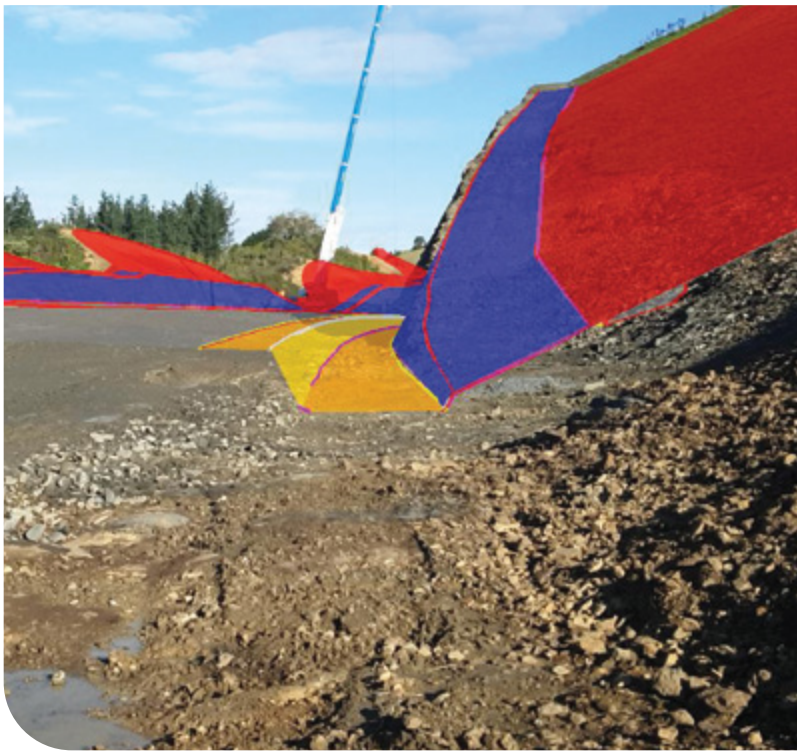
See what you can do with Trimble SiteVision

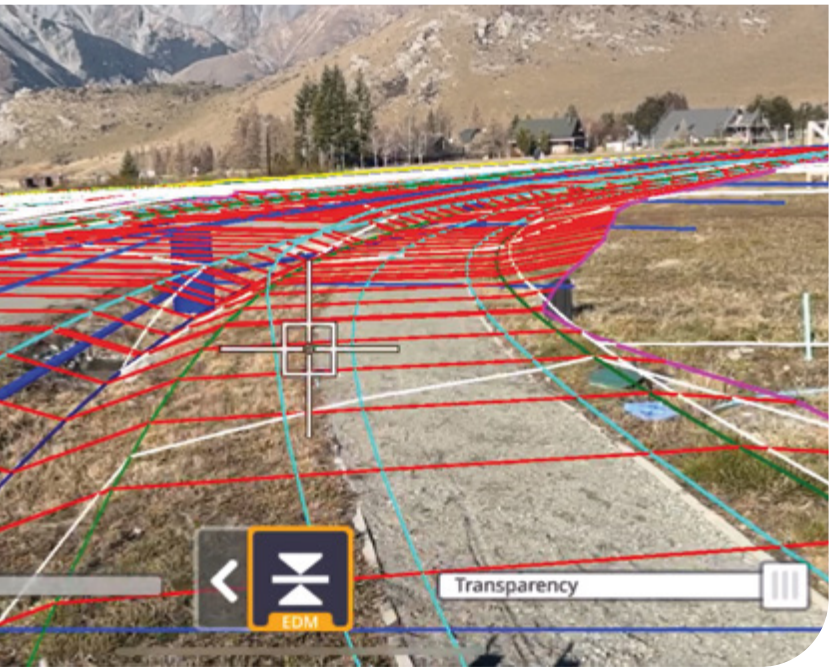
- High-accuracy position and orientation
- Supports iOS or Android™ AR-capable smartphones and tablets
- Supports iOS lidar functionality
- Works with data from Trimble Business Center, Trimble Siteworks and Trimble Earthworks
- Electronic distance measurements when paired with the Trimble HPS2 handle*
- Trimble Connect and WorksManager integration

*Applies only to iOS devices with lidar, or the Trimble HPS2 handle with Android smartphones

Features that work for you

- Works with a range of file formats
- Field to office connectivity
- In-field design
- Visualization tools
- Measure, record and inspect as-built
- Stockpile volume measurements
- Reporting
- Reality capture via iOS lidar





Features that work for you

- Create concepts
- Reporting
- Measure & model positioning
- Visualization tools
- Plan construction
- Works with a range of BIM file formats
- Capture as-built conditions via reality capture with iOS lidar

03 Utilities

See what your data can do

SiteVision lets you confidently access and visualize the full potential of your data both above ground and below in real time and in the real world—right from your mobile device.

Accuracy with ease

Replace paint marks and 2D plans with visualizations from high-accuracy augmented reality enabled by the Trimble DA2 GNSS receiver and Trimble Catalyst® GNSS positioning service. With the tap of a button, information is displayed at scale and in context. Pair SiteVision with the Trimble HPS2 handle to take remote measurements with the integrated distance measurement technology. Capture points and verify information quickly and form a safe distance. Capture as-built conditions with reality capture features enhanced with auto sync to Trimble Connect.

Access at any moment

Whether it's planning, inspection, collaboration or reporting, SiteVision enables users to quickly pull up data directly from GIS databases to view and share—no more searching plan sheets or drawings. If it's in the model, the user can simply tap and view the attributes to confirm database integrity, improve safety and enhance awareness on-site.

SiteVision integrates with your existing tools

SiteVision integrates with data from Trimble's utility systems, including Trimble NIS software solutions for electric utilities, Trimble Unity for water utilities, and Trimble Business Center for utility construction, as well as your commonly used GIS systems like Esri® ArcGIS® so you can leverage all your utility management systems and favorite 3D modeling software for visualization for public and contractor engagement.

See what you can do with Trimble SiteVision

- High-accuracy position and orientation
- Supports shapefiles, geodatabases, web feature services, Autodesk DWG™ and LandXML data
- Electronic distance measurements when paired with the Trimble HPS2 handle
- Trimble Connect Integration
- Supports iOS or Android AR-capable smartphones and tablets
- Supports iOS lidar functionality

04 Surveying and Mapping

Bring geospatial data to life

Trimble SiteVision is an easy-to-use outdoor and indoor augmented reality system that lets you see issues before they arise and enriches the data you see in the field to take more accurate measurements. SiteVision empowers decision making through collaboration and engagement of project stakeholder.

Confidence in your data

SiteVision's AR capabilities enhance communication and reporting, from boundary location communication to quick site measure-ups. With direct access to property and utility databases through GIS data support, surveyors can access up-to-date information on-site, reducing data preparation time. It allows visualizing and inspecting measured points or surfaces in real-time. During construction inspections or as-built surveys, SiteVision helps identify and communicate discrepancies between designs and the current site.

Inspection made easy

Perform quick and accurate measure ups of points, lines, areas, and volumes. Perfect for measuring length of curb, areas of pavement, or material stockpiles. Digitize your inspection workflows to reduce errors, and share and sync your measurements with compatible applications including integration with Infotech® AASHTOWare® Project & Appia.

See what you can do with Trimble SiteVision

- Collect accurate georeferenced points/lines/areas/volumes
- View your GIS and other spatial data in AR
- Collect georeferenced 3D point cloud scans
- Remote EDM measurements when paired with the HPS2 handle
- Integrates with a range of data sources

Features that work for you

- Works with a range of BIM file formats
- Cloud connection
- Reality capture
- Visualization tools
- Reporting
- Data collection and measurement tools
- Reality capture with iOS lidar

05 Planning and Design

Democratizing data

SiteVision brings your project to life to explore proposals in the context of their physical environment. Communicate complex problems to non-technical stakeholders. Present options and facilitate discussions to validate your designs and promote buy-in and ownership of key decisions.

The Full Scope. In Sharp Focus

With the visualization tools to overlay design data into real-world settings at true-to-life scale in real time, you can quickly create and communicate an accurate picture of how your plans will come to life. From new intersection designs to bridges, solar farms and wind turbines, SiteVision makes it easy to communicate with all stakeholders.

Capture as-built conditions with reality capture features enhanced with auto sync to Trimble Connect.

Buy-in, every step of the way

From the preliminary design stage to the public consultation stage, securing buy-in and support to facilitate a project is always a challenge—until now. SiteVision's information visualization capabilities make it easy to demonstrate your proposed designs—and preferred alternatives—at every phase of a project.

SiteVision integrates with your existing tools

SiteVision integrates with a wide range of data sources including most common CAD & BIM modeling formats. Making this data accessible to stakeholders in an intuitive and relatable way.

See what you can do with Trimble SiteVision

- Works with Trimble Quadri® software, SketchUp and common design formats such as IFC, DGN, RVT, DWG
- Visualize 3D models in context
- Understand how your proposal interacts with the local environment
- Capture AR screenshots or screen recordings
- Document trouble spots or concerns with BCF Topics

Features that work for you

- Visualization tools
- Model positioning
- Reporting
- Works with a range of BIM file formats
- Capture as-built conditions via reality capture with iOS lidar

SiteVision integrates with data from Trimble Business Center, Autodesk Civil 3D®, OpenRoads, and Trimble Novapoint so you can use all your favorite 3D modeling software and office tools for visualization and client/contractor engagement.

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