



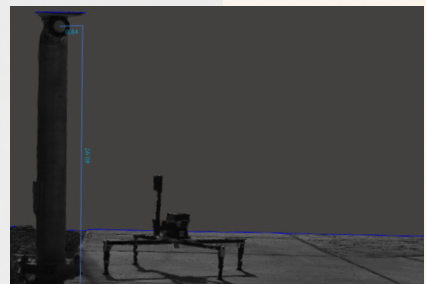
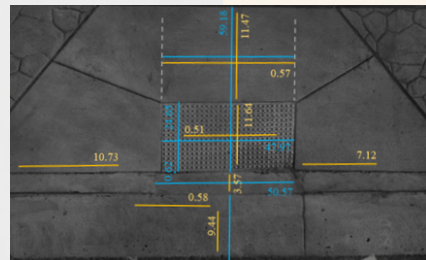
Advanced Data Acquisition & Measurement (ADAM)

RIEKER inc.

Rieker's Advanced Data Acquisition & Measurement (ADAM) system is a total solution to assure curb ramp compliance with ADA (Americans with Disabilities Act) guidelines. ADAM uses computer vision techniques to accurately capture and measure curb ramps with repeatability and traceability to the National Institute of Standards and Technology (NIST). ADAM provides the following:

1. State Compliance Report

- State specific compliance report
 - Customizable to meet requirements
- All measurements accurate to 0.1" and traceable to NIST for irrefutable proof of compliance
- Sites are identified by intersection name and location as well as GPS coordinates for easy identification & retrieval
- All points of measurement on the 3D model are recorded & displayed for forensic documentation & review.



2. A 3D Infrastructure Model

ADAM brings the site to you. The digital twin of the physical site is generated and can be used for scoping and design.

- Obstacles and technical infeasibilities can be seen right away
- Measurements such as distance, slope, elevation, etc., can be made
- The digital twin is provided in multiple formats
 - LAS format for point cloud
 - Provided in 3 different units (meters, feet, inches) for easy import into designer's workspace
 - Full and low-resolution LAS files are provided for convenience
 - OBJ format for textured mesh



Patent Pending: 029313.00114 Curb Inspection Tool - This application claims priority to U.S. Provisional Application No. US 62/899,411, filed September 12, 2019 and U.S. Provisional Application No. US 62/932199, filed November 7, 2019.vv

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or visit www.riekerinc.com/total-solutions/

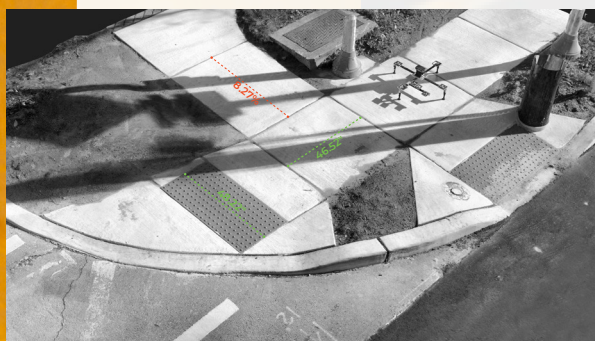


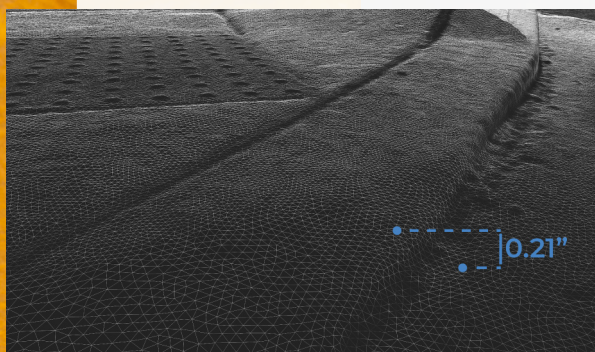
Photo realistic 3D textured mesh brings the site to you.

Structure from Motion (SFM) & Photogrammetry

Computer vision techniques such as structure from motion (SFM), photogrammetry, etc., are used to provide an accurate 3D reconstruction of physical space.

Reference to Gravity and Scale

ADAM utilizes high resolution cameras in combination with an Automated Reference Plane (ARP) to reconstruct an accurate 3D space referenced to gravity. Rieker's high accuracy inclinometer provides the foundation of the ARP.



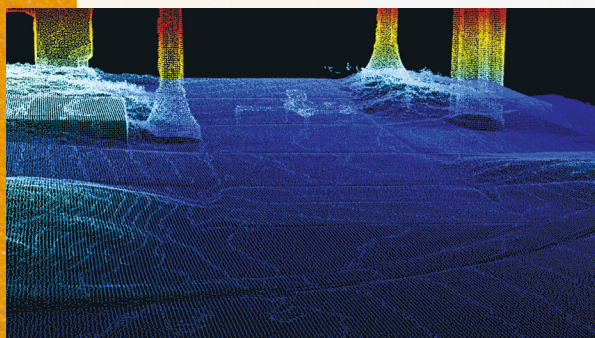
High resolution mesh for accurate measurements to 0.1".

Portal Access & Automated Report Generation

ADAM provides automatic uploads of all inspection data when connected to the internet; a user may geo locate site data, access and customize automated reports, and investigate a 3D model forensically from the office. All data is stored securely on the ADAM Portal and is exportable.

Job Progress Tracker (JPT)

The overall job progress can be easily tracked. The status of each site is updated and displayed through a portal. JPT includes site data capture description, key site attributes, user or state-specific custom fields, acquisition status, flexible prioritization, and reporting capabilities.



Variable resolution point cloud for flexible workability.

The Rieker Advanced Data Acquisition & Measurement (ADAM) is an advanced system delivering uniform accurate measurement and forensic reporting to help ADA compliance coordinators, municipal inspectors, traffic planning personnel, and outside engineering firms meet ADA guidelines - shielding US states, cities, counties, and other municipalities from the legal liability associated with ADA guideline violations.

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