

SpatialAnalyzer®

SpatialAnalyzer® (SA) by New River Kinematics (NRK) is the premier portable metrology software solution for large-scale applications. SA is an instrument-independent, traceable 3D graphical software platform that makes it easy for users to analyze data, build, inspect, automate, report, and reverse design a variety of parts and tools. Powerful, versatile, and user-friendly, SA can simultaneously communicate with virtually any number and type of portable metrology instruments while performing complex tasks simply. SA can integrate data from multiple instruments and helps users find the best optimization to improve accuracy, save time, reduce scrap, and ultimately improve productivity.

PRIMARY INDUSTRIES

Aerospace
Shipbuilding
Energy
Satellite
Automotive

SUPPORTED CAD FORMATS

IGES
STEP
STL
CATIA®
SolidWorks®
NX®
ProEngineer®
Creo Parametric
Inventor
& more

MINIMUM REQUIREMENTS

Windows XP SP2 or later
512 MB system RAM
500 MB of free disk space for installation
(more for your data files)
1024 x 768 screen resolution

KEY FEATURES

Full Support of All Types of Portable Metrology Equipment

Over 120 different instruments are currently supported. This includes laser trackers, arms, laser radars, scanners, projectors, theodolites, total stations, and photogrammetric devices—all featuring a common interface for each instrument class.

Alignment

Align to a known coordinate system using a variety of techniques, from 3-2-1 and best fits to interactive fitting such as Quick-Align and classic surface fits. Relationship Fitting allows for simultaneous feature-based fitting to organic surfaces in addition to traditional iterative fitting.

Traceability

Maintain a clear history of all data from start to finish with 100% traceability from measurement to reporting.

Uncertainty Calculation & USMN

Calculate measurement uncertainty and use USMN to achieve the ideal instrument network.

Real-time Build & Virtual Assembly

Digitally assemble components with Relationships and constraints to see how parts will fit in final assembly. An entire suite of tools are available for real-time building.

GD&T Inspections

Address ASME standard GD&T requirements with support for native CAD annotations.

Model-based Definition

Take advantage of CAD models to capture deviations over time or watch them in real-time.

Reporting Tools

Quickly and easily generate custom reports with output to a wide variety of formats.

Automation

Use Measurement Plans and an SDK to enable powerful scripting and automation capabilities.

Point Clouds

Combine laser scanner interfaces with advanced tools for feature fitting and automatic sphere extraction. Automatically extract features from scan data for easy comparison to CAD or analysis with GD&T.

SA Remote

View real-time 3-DOF and 6-DOF spatial data and control laser trackers remotely from an iPhone®, iPod® touch, or iPad®. Download the official SA Remote app for free at the Apple App store.

For more information or a free demo, email sales@kinematics.com or call 757.565.1500.



www.kinematics.com

