MASTER
Quality

SpatialAnalyzer (SA), the graphical 3D metrology and analysis software from New River Kinematics, is essential for complex industrial measurement and the evaluation of measurement data. The software was developed by engineers from practical experience against a background of different industries, and offers users a simple, freely configurable and programmable platform for determining reliable results.

SpatialAnalyzer metrology software

SpatialAnalyzer, the software certified according to PTB and NIST, is not a standard solution but specially adapted to the demands of the engineering industry. It is built on a modular principle, easy to use and also extremely powerful when processing large amounts of data. SpatialAnalyzer can be fully automated, which means significant cost and time savings for the user. With each new customer request, we continue to develop SA. The self-developed source code makes it possible to adapt the software quickly.

Measurement and display of shape and position tolerances (GD&T)
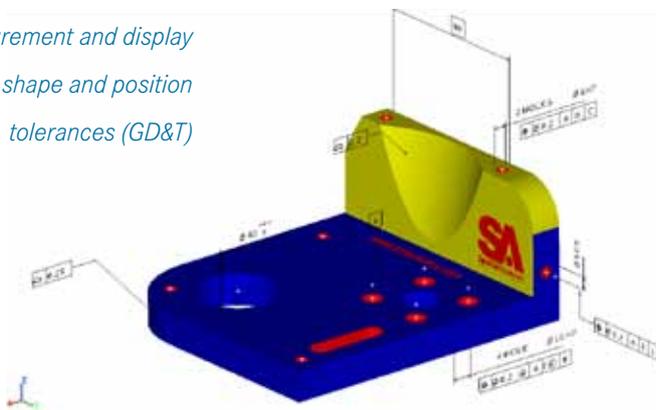
SpatialAnalyzer metrology software

VMT offers fast and flexible support, individual training and regular user meetings. Our engineers support you in the integration of measurement technology and the creation of measurement concepts.

SA Professional Basic functionality for measurements, 3D alignment, design, inspection and analysis, GD&T, interface for all current instruments, data and native CAD exchange (STEP, IGES, VDA, CATIA, ProEngineer, SolidWorks and others).

SA Ultimate includes SA Professional as well as alignment to CAD, USMN, automation/measurement plans (MP +SA SDK), synchronization of multiple instruments in 6D and real time, relationship fitting as well as standard and native CAD exchange (STEP, IGES, VDA, CATIA, ProEngineer, SolidWorks and others).

SA Machine includes SA Ultimate with all CAD interfaces, interface to robots and CNC machines, calibration and real-time compensation, robot control, checking of linear or articulated arm robots, analysis of the Denavit-Hartenberg parameters, full inverse kinematics and graphical simulation.

Features

- Interfaces to more than 150 portable instruments including scanners, laser trackers, measuring arms, total stations, theodolites
- Uniform instrument interface for devices of the same type
- Measurement simulations and determination of measurement inaccuracies
- Dynamic reports incl. tables, graphics and diagrams
- Traceability from measurement up to reporting

Advantages

- Comprehensive bundling of various intruments
- Measurement simulation for measurement planning and estimation of accuracy
- Precise alignment using unique Relationship Fitting
- Saves time and reduces costs due to full automation with measurement plans