



SpatialAnalyzer® (SA)

Software Packages

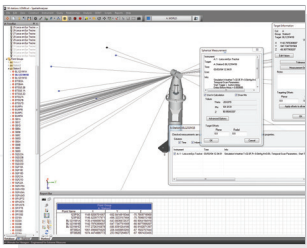
SpatialAnalyzer® (SA) by New River Kinematics (NRK) is the essential measurement, alignment, and reporting software for portable metrology in large-scale manufacturing settings. SA can simultaneously communicate with virtually any number and type of portable metrology instruments.

SA PROFESSIONAL

SA Professional with Native CAD is the professional measurement, alignment, inspection, analysis, and reporting software for all portable metrology instruments. In addition to all essential measurement needs, it includes several key inspection features, geometry inspection, and measurement automation.



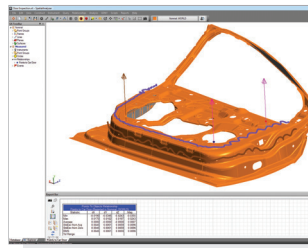
MEASUREMENT



100% traceability from measurement to reporting.



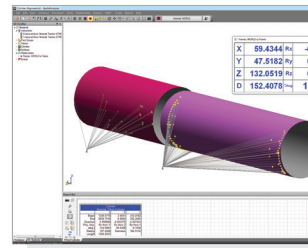
ALIGNMENT



A variety of alignment methods ranging from traditional 3-2-1 alignments to more advanced surface fits.



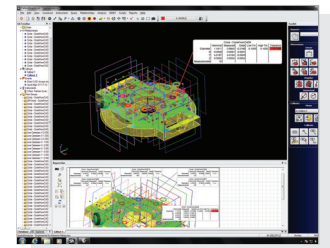
BUILD



Relationships are dynamic in nature and update automatically if part alignment or data changes.



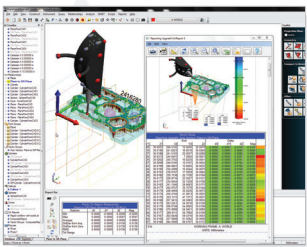
EVALUATION & ANALYSIS



Permits both graphical and numerical depiction of measurement uncertainty.



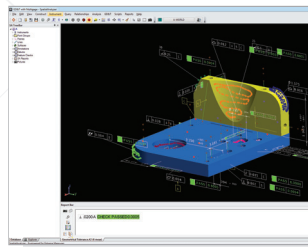
REPORTING



Quick, user-friendly reporting functionalities. Includes the ability to transfer SA data to databases and track projects/data long-term.



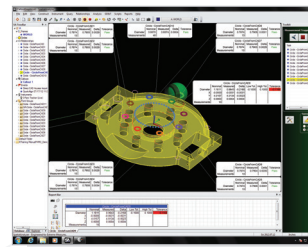
GD&T INSPECTION



Import CAD with GD&T annotations, create annotations manually, and inspect to GD&T standards with real-time reporting.



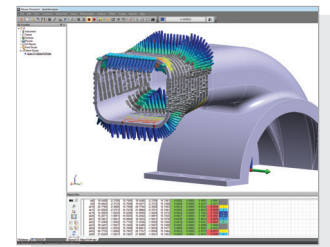
GEOMETRY INSPECTION



Define design-based inspection routines from a CAD model or primitive geometry.



NATIVE CAD



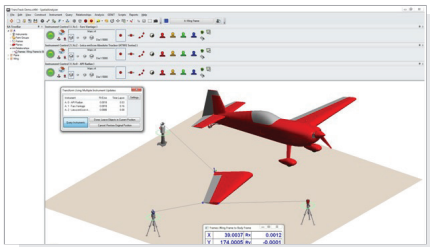
Import support for such major applications as CATIA V4, V5, Pro/Engineer, SolidWorks, Unigraphics, and other CAD formats.

SA ULTIMATE

SA Ultimate plus Native CAD is the premier measurement, optimization, analysis, reporting, and automation software suite for all portable instruments. It is inclusive of everything contained in SA Professional, plus the features below.



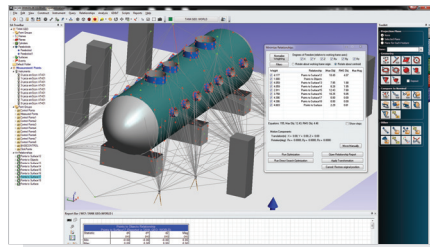
REAL-TIME ALIGNMENT



Track moving parts in real-time so that you can monitor a part's position as it is guided into place.



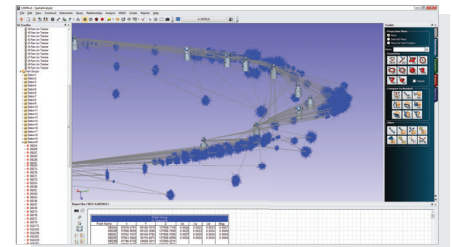
ADVANCED FIT OPTIMIZATION



Provides the power necessary for advanced alignments and can help bring an out-of-tolerance part back within tolerance. You can also define fit envelopes to satisfy multiple constraints/ requirements.



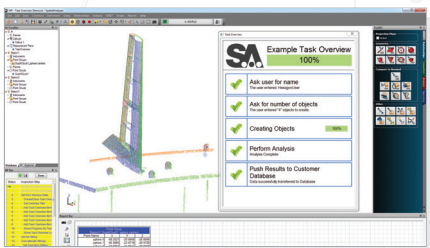
COMPLEX INSTRUMENT NETWORKS (USMN)



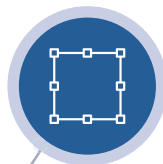
A powerful feature that leverages the uncertainty characteristics of different instruments to provide a much more accurate instrument network than that of traditional alignment methods.



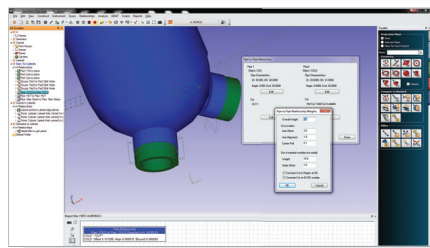
AUTOMATION



Generate simple to complex scripts that will greatly improve workflow and productivity, eliminate errors and save significant resources.



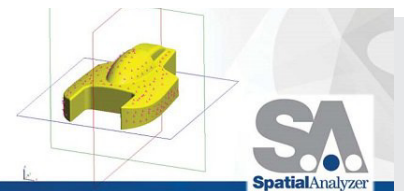
PIPE FITTING



Used in large piping applications when precision measurements and optimization are required.



SA CAD VALIDATION



CAD Validation

The SA CAD Validation application is a separate utility that allows you to define standalone test reference files that contain lists of CAD files and reference points for verification.