SpatialAnalyzer Features / License Types

Features / File management	Survey	Professional	Analysis	Ultimate	Machine
Full Access to Standard & Native CAD Import (30+ formats)	✓	✓	✓	✓	✓
Extreme flexibility for import/export of file formats	✓	✓	✓	✓	✓
Measurements					
Measurement Traceability	✓	✓	✓	✓	✓
Simultaneous Instrument Interfacing	✓	✓		✓	✓
Interfaces with Total Stations, Theodolites, Room Scanners	✓	✓		✓	✓
Interfaces with most common Portable Metrology Instruments		✓		✓	✓
Run instruments in simulation		✓		✓	✓
Alignment					
Cloud Based (to CAD, to Mesh, to Cloud)	✓	✓	✓	✓	✓
Point Based (to CAD, Best Fit, Locate Measure Nominals)	✓	✓	✓	✓	✓
Feature Based (RPS, Frame Wizard, GD&T Datum)	✓	✓	✓	✓	✓
Standard Instrument Network Bundle	✓	✓	✓	✓	✓
Advanced Network Optimisation Bundle (USMN)	✓		✓	✓	✓
Advanced Relationship Fitting and Feature Optimisation			✓	✓	✓
Sequential and Simultaneous Collection Optimisations			✓	✓	✓
Inspection					
GD&T annotations (ISO & ASME standards)	✓	✓	✓	✓	✓
Templated part inspection and user guidance	✓	✓	✓	✓	✓
Point Cloud / Mesh					
Real Time Meshing with Colourmap	✓	✓	✓	✓	✓
Feature Extraction with and without CAD	✓	✓	✓	✓	✓
Cross Section Cloud Analysis	✓	✓	✓	✓	✓
Evaluation & Analysis					
Robust Fit Algorithms (NIST & PTB Certified)	✓	✓	✓	✓	✓
Uncertainty Computation & Analysis			✓	✓	✓
Export CAD features for Reverse Engineering			✓	✓	✓
Reporting					
Drag & Drop Reporting, Report Templates	✓	✓	✓	✓	✓
Standard Outputs (Excel, Word, PDF, Text)	✓	✓	✓	✓	✓
Interactive Graphical Callouts, Annotations & Dimensions	✓	✓	✓	✓	✓
Metrology Reporting - cloud-based centralised reporting	✓	✓	✓	✓	✓
Basic Statistical Analysis + Q-DAS formatted export	✓	✓	✓	✓	✓
Advanced Statistical Analysis + Q-DAS integration (custom K-fields)			✓	✓	✓
Database connectivy option (ODBC, OPC, XML, JSON)			✓	✓	✓
Automation					
Automated workflows for feature inspection and measurements	✓	✓	✓	✓	✓
Measurement Plan Scripting			✓	✓	✓
Software Development Kit (SDK)			✓	✓	✓
Real Time Assembly					
Dynamic Geometry, Intersection and Computed Features	✓	✓	✓	✓	✓
Live Watch Windows (DROs), Dimensions and Vectors	✓	✓	✓	✓	✓
Real-time 6DOF virtual assembly			✓	✓	✓
Optimised Pipe measurement & cutting (Virtual Assembly)			✓	✓	✓
Robotics					
Multi-zone Robot Calibration					✓
Robot kinematic model creation					✓
Robot direct control (FANUC, KUKA, ABB)					✓

Key Features

🟩 Quality Inspection and Metrology
🟦 Real-time Assembly and Robotics