Metrolog EVO

Built on X4 Architecture

INSPECTION MADE EASY!

EASY TO USE
POWERFUL
EFFICIENT

Metrolog EVO is a very easy to use 3D measurement software, especially designed for portable inspection devices.

Built on the X4 architecture, we have integrated a simplified operator oriented interface to unleash the power of Metrolog EVO.

Metrolog EVO addresses all the advanced capabilities you need to satisfy your day-to-day geometric and free form measurement analysis requirements.

metrologic group®

advanced 3D measurement software & solutions

Metrolog EVO

Built on **X4** Architecture

INSPECTION MADE EASY!

■ METROLOG EVO, YOUR UNIVERSAL 3D INSPECTION SOFTWARE

• Full compatibilities with all 3D portable devices: direct interface with all portable CMMs and handheld 3D scanners.

• FLEXIBLE and yet powerful: capable to handle seamlessly any applications from point clouds involving huge data sets, to multiple stations involving bundling. Metrolog EVO will be at ease in your environment.

• ANY INDUSTRY: machining, moulding, stamping, prototyping, large or small assemblies, etc... Metrolog EVO is perfectly suited to help you solve all your applications.

• A new approach to multiple part measurements and programming: with an easy replay button, the EVO feature-based runner allows you to re-run a complete measurement session sequence, making everyday inspection easy, without requiring advanced part programming skills.

• Capability to measure various geometric features: points, surface points, circles, rectangular slots, round slots, sections, lines, planes, spheres, cylinders and cones.

• Tolerance decoding, no interpretations: with a unique approach to tolerance evaluations, Metrolog EVO supports the most commons GD&T used for position, dimensions and forms, and addresses these based either on the ISO or the ASME requirements.

• Reporting: it does not get easier with the possibility to use our WIZARD report creator that can integrate logos, views / captures and any tables. Export to excel is also available allowing you to exchange data with any software and provide any needed archiving very simply.

• Direct and dynamic data sharing using the FREE Metrolog X4 i-Viewer that can be used, either internally by any departement, or externally with partner companies: your free global collaboration tool for 3D Inspection data sharing and project review.
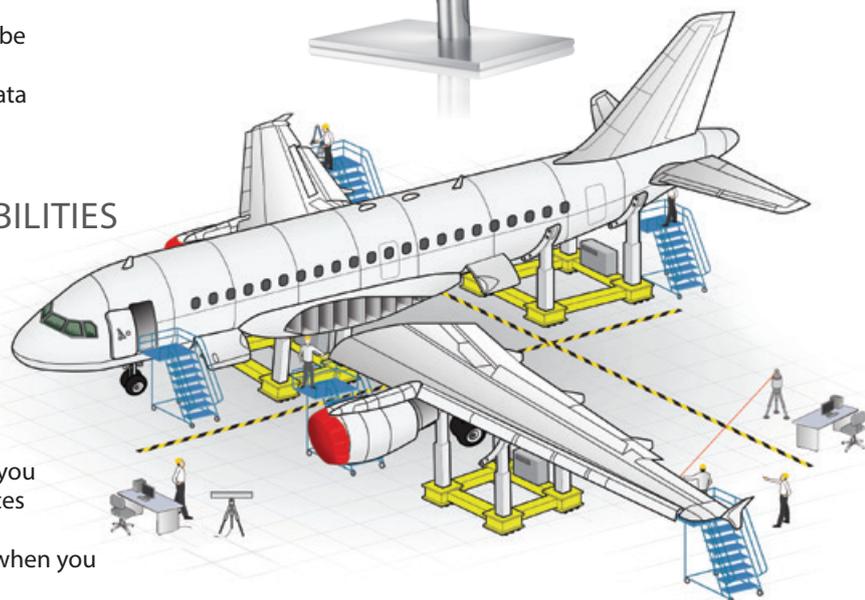
■ HIGH PERFORMANCE WITH LARGE POINT CLOUDS

Metrolog EVO 64-bit architecture gives access to all the available memory of today's computers. The software is optimized to easily handle large volume data sets to faciliate not only point cloud acquisition but also processing.

The X4 software architecture provides capacity and performance to:
  • Import and manipulation of huge CAD files and assemblies.
  • Import or acquisitino of large point clouds that can be easily displayed and manipulated.
  • Automatic features extraction from your scanned data giving very reliable results.
  • Real time color mapping.

■ LARGE SCALE METROLOGY CAPABILITIES

• Capable to handle data collection from several stations, Metrolog EVO is aimed at helping you solve large part measurements with a simple approach. An advanced bundle module computes collected data from the different station taking into account existing environment and uncertainties.
• Making it easy for the operator, Metrolog EVO is fully compatible with the X4 i-Remote application allowing you to remotely control your work using any portable devices (Android, iOS, Windows RT, ...).
• Metrolog X4 i-Remote is the ultimate remote control when you measure far away from the computer station.
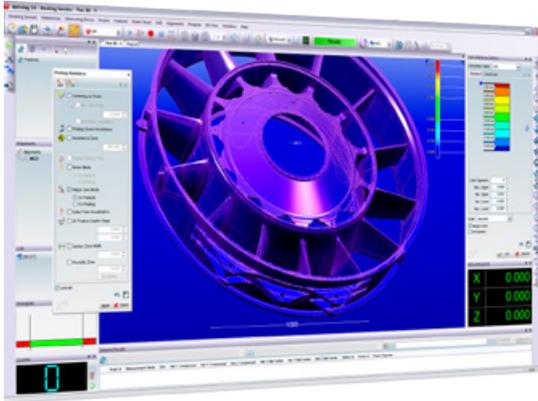
CONNECT AND INSPECT!

Metrolog EVO has been specifically designed to simplify and significantly reduce your inspection time. Based on an interactive graphical interface and an advanced probing assistant, the operator is guided to perform measurements in the best conditions with an immediate representation of the results providing live feedback about the part's shape and form.
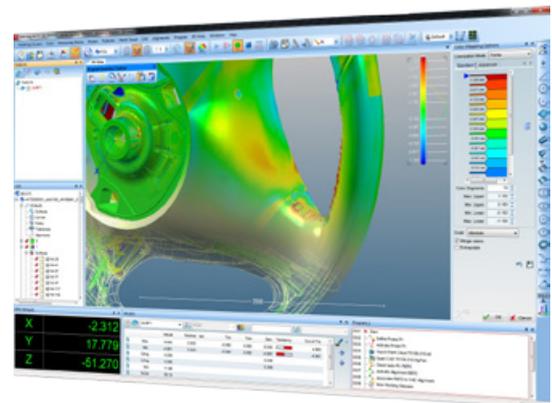
Prismatic Measurements

Measurement results updates in real time
Throughout the control process (probing, constructions, definitions…) you can access your ongoing measurement results to monitor your inspection. While probing/scanning, all the feature characteristics and results (dimensions, form fault…) are computed for you and displayed in real-time.

Powerful inspection capabilities
CAD based measurements and analysis made simple. Live color mapping from point cloud projection to the CAD entities, or simple hard probing measurements, allow you to obtain real-time surface analysis.

All types of free form features are included in Metrolog EVO; this includes sections, surface points, color mapping, as well as free form related GD&T evaluations based on advanced best fitting algorithms.

Surface deviations can be simply reported using stickers in the 3D view, or shared using the Metrolog X4 i-Viewer.
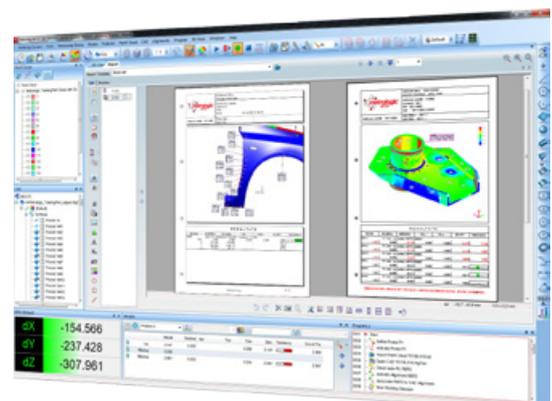
Surface Measurements

Programming / Re-run

Multiple Part Inspection Made Easy
Thanks to its feature-oriented part programming engine and its easy-to-use user interface, re-running a full inspection sequence, including operator instructions and advanced visual assistance, becomes easy and efficient.

Reporting / Output
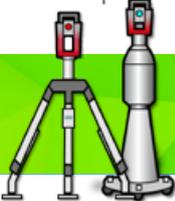

On-demand inspection reports
You can directly design and print reports using our step-by-step wizard. You can rapidly create and customize your graphical or listing-based inspection reports.

All the feature's characteristics can be clearly displayed in a customizable sticker / balloon for a detailed and comprehensive report. These reports can be printed or accessed live using our free global X4 i-Viewer inspection data sharing software.

KEY FEATURES & USER BENEFITS

- Optimal interface: operator-oriented and simplified user interface for ease of use and fast learning curve.

- High performances for large data sets: large CAD files and assemblies as well as huge point clouds can be easily and rapidly processed.

- Point cloud: live acquisition and fast data processing of large point clouds for automatic extractions of features and surfaces including meshing functionalities.

- Robust and cross-industry tools: built on the X4 technology to make it the most versatile software ready for any challenges.

- X4 i-Viewer: free Metrolog working session viewer for group work collaboration and dynamic reporting.

- Advanced analysis and reporting: automatic feature computation based on associativity of the features for fast inspection and dynamic data sharing with X4 i-Viewer.

- Available with X4 i-Remote, a free remote control app for mobiles devices (smartphone, tablet or laptop) to measure away from the computer.

- Software readily available in 18 languages, switchable on the fly.

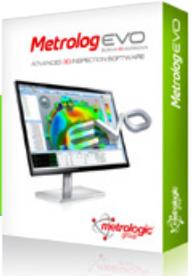## AVAILABLE METROLOG EVO SOFTWARE PACKAGES

Metrolog EVO Laser Tracker:
Package dedicated to laser tracker (as well as 6DOF) used in contact mode

Metrolog EVO PoD:
Package dedicated to portable optical devices using tracking cameras.

Metrolog EVO Portable Arm Scan/Optical:
Package dedicated to portable arms used with a line scanner or a contact probe.

METROLOG EVO TO METROLOG X4 PACKAGE MIGRATION

As long as a your software license is kept under an active software maintenance agreement, it will be possible to migrate your Metrolog EVO license to a Metrolog X4 license, allowing the end-user to benefit from more advanced tools and capabilities. This upgrade will be done without the need of a new training session, and all legacy data will be fully compatible.

Some among already compatible systems with Metrolog EVO:

Compatible with Windows®
32 Bit 64 Bit

steinbichler
FARO
Mitutoyo
GS Geodetic Systems
CREAFORM
NDI
ROMER
Kreon
Leica Geosystems
Nikon
API Automated Precision Inc.

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