



Metrolog

Universal and integrated
3D measurement software

Inspect with confidence



About the company

Optimize your quality processes, measure more efficiently, maximize your investments

Metrologic Group has built a solid reputation for providing companies of all sizes with the best 3D control software in the market through a combination of cutting-edge technology driven products & solutions, together with outstanding levels of customer service.

The latest Metrolog X4 software is our most innovative & advanced measuring solution yet, resulting from 35 years of expertise and extensive R&D in the metrology industry. Companies in various sectors such as automotive, aerospace, tool manufacturing and mould making, machine building, energy and medicine have trusted us with their metrology needs, outperforming our competitors in all aspects.



An independent yet compatible solution

Large Scale Metrology
Uncertainty Bundle



Virtual Offline
Simulation & Programming

Universal



Point Cloud
Acquisition & Inspection



Portable Metrology
Multi-devices

Robot Measurement
Inline Automation



One single solution
fitted to all your needs



CMM Retrofits
Services & Calibration



GD&T Reporting
Offline Analysis

Why changing your measurement software?

Your current software solution:

- Does not update regularly?
- Is only compatible with an obsolete computer system?
- Struggles when it needs to open heavy or complex CAD files?
- Does not provide the correct analysis and understanding of results?
- Does not analyse geometric tolerances (GD&T)?
- Takes up too much operators time with program creation?
- Provides limited flexibility or customisation in the design and management of reports?
- Your inspection department is constantly overloaded and under-productive?

Metrolog X4 will lift all these limitations. Metrolog X4 is a stable solution with worldwide recognition that will deliver outstanding cost-effective and time-saving measuring capabilities.



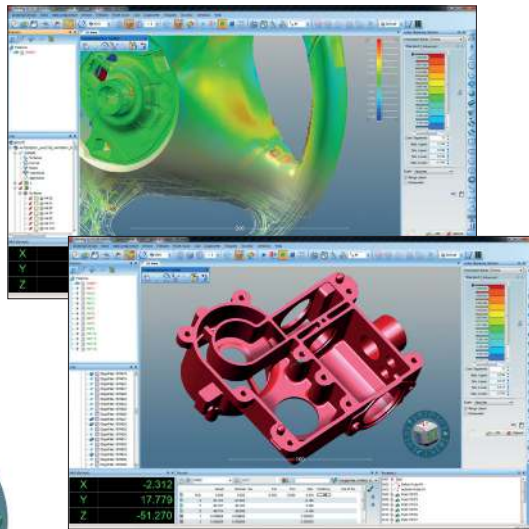
“Metrolog, the automotive and aerospace standard”

An enhanced interface for a smooth end-user experience

- Fully customizable user-friendly graphical interface to suit the needs of the operator, machine types and measurement types.
- New manual probing wizard.
- Automatic view orientation during acquisition.
- Multiple information windows (position and results).
- Software readily available in 18 languages switchable on the fly.



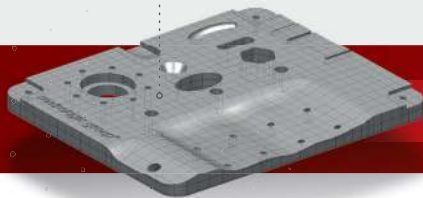
Inspection made Easy:



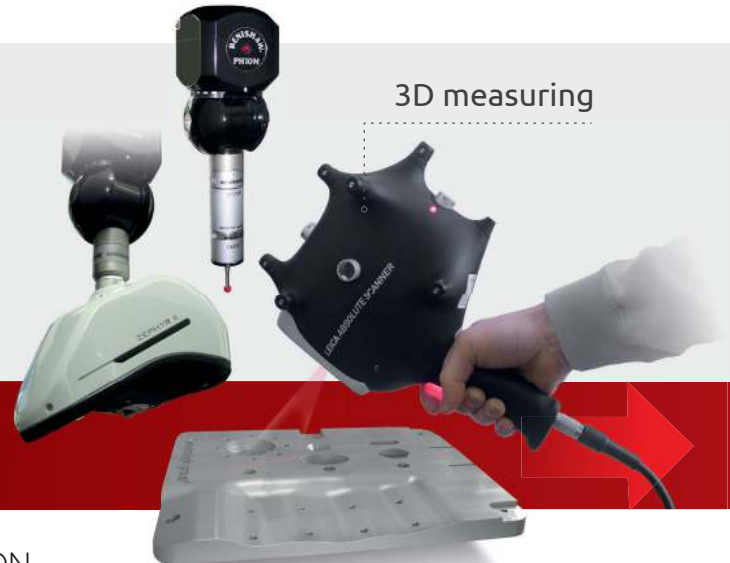
Maximum performance in the point clouds analysis

- Metrolog X4 is designed to process and analyse the largest and most dense point clouds.
- Metrolog X4 integrates the latest technology required for efficient optical measurement functions, ensuring that you have the best tool whatever the device used.
- Cloud comparison with CAD (Color Mapping).
- Element extraction and automated GD&T.
- Intuitive treatment of Flush and Gap.
- Measurement with compensation for material thickness.
- Part quality estimation according to the surface mm^2 (Area calculation).

CAD data



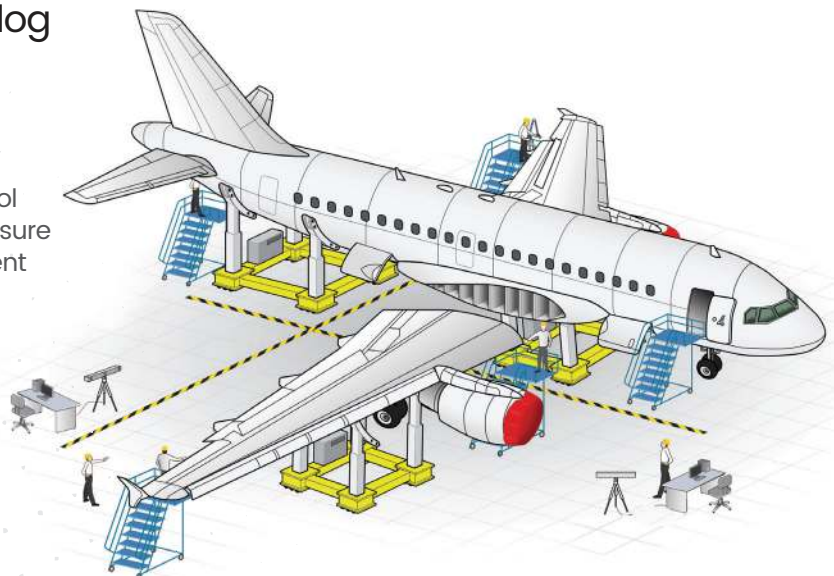
3D measuring



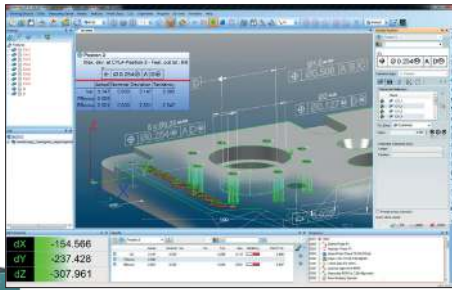
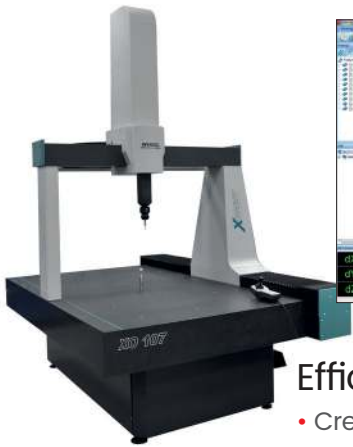
► ACQUISITION

Large scale metrology with Metrolog

- Compatible with all large measuring devices, laser tracker & mobile optical systems.
- Supports all brands and models.
- The Multi-connections mode can control several devices to simultaneously measure with reference to all of the measurement results (Bundle).
- Takes into account the uncertainties of the instruments and scale factor (temperature variations).
- Tracking and management of raw data.



Connect and inspect!



Efficient part programming

- Create easily complete part programs
- Online or offline teach-in available
- Full process planning files integrations
- Operator oriented instructions for robust shop floor execution

Simplifies complex GD&T analysis

- Metrolog X4 has a new geometric and dimensional tolerances processing engine for handling the most complex cases in record time.
- Geometric tolerance definition facilitated.
- «Expert» system ensuring the correct evaluation methodology and results.
- Total support for the tolerance evaluation in compliance with the given standard.
- Support for ANSI and ISO standards.
- Certified and recognised solution by the PTB and NIST organisations.

Embedded treatment in X4



Graphic reports



► PROCESSING

► ANALYSIS

► REPORTING

High performance: large data set (CAD, point clouds, ...)

No more delays and bottlenecks with large volumes of data. The coming years will see exploding amounts of data and processing, whether CAD files or measured point clouds from optical sensors.

Metrolog X4 64-bit architecture uses and optimises all available memory, always pushing the envelope. Unparalleled performance and unparalleled ease of use.

The software architecture provides two key benefits:

- Import and manipulate large size CAD files.
- Import or acquire large point clouds.

Report editor: The best in class

- Powerful report editor allows complete and easy customisation.
- Simple and user-friendly interface.
- Create your own report templates adapted to your customer requirements.
- Customise any type of output: assistant, status editor, direct export from the library, etc.
- Export available in many standard formats such as .XLS, .CSV, .PDF...

Universal CMM Controller Retrofit

«Don't hesitate to upgrade your CMM!
You'll increase its performances at a
very competitive price.»

CMM hardware upgrade and software updates have become increasingly popular over the past few years, restoring full performance to a measuring tool whose electronic and software are outdated for considerably less money than changing the whole measuring machine, with the possibility to integrate the latest new probing and scanning technologies.



Metrologic universal DCC controller upgrade

Metrologic Group's own range of digital controllers provide enhanced calculation time, machine speed and an overall smoother machine motion.

- Fast: capable of high speed contact-scanning
- State-of-the-art developed for optical laser scanning probes
- Universal: fully compatible with all type and brand of CMM
- Ergonomic: Specific keyboards developed especially for Metrolog software use Wireless Bluetooth capable Keyboards available
- Reliable: use of proven technologies combined with 30 years of experience
- Easy: Metrotune software for quick and easy installation of the measurement results (Bundle).



Metrologic Manual Counting Box upgrade

- 3 Axis Counting box for any type of manual CMM
- Any type of encoders
- Connection to PC via USB
- Input for touch trigger 3D probe
- Power supply included
- Fully compatible with our 3D inspection software



Metrologic Operator oriented Joystick and Keyboards

Among all the improvements made to this new single stick keyboard, here are some of the main advantages:

- Large color LCD screen: better contrast and brightness
- 16 programmable functions keys
- New handling for menus and quick access for PH10 motorized head
- Self-test functions

A universal solution available on any device



Metrolog X4 Direct Interface Technology allows you to simply connect over 90 different devices using the existing hardware controllers and native protocols.

Driven by innovation, our development team constantly integrates new systems to provide you the ultimate measurement hardware for your existing and upcoming applications.

Added value app's to maximize your productivity



X⁴ i-Viewer

- Free Metrolog X4 working session viewer app.
- Collaborate and dynamically exchange your 3D inspection data with your engineering team, facilitate product development by using the new X4 i-Viewer software.
- Share your X4 inspection files with customers, partners or subcontractors; offer them the ability to visualize your measurement results and data by simply downloading this free application.



X⁴ i-Remote

- X4 i-Remote is a mobile app that gives you the freedom to measure away from your computer.
- You can remotely take control of your X4 software. No need to navigate back and forth to your computer during a measurement session.
- Simply take control of Metrolog X4 at your fingertips and away from your computer.



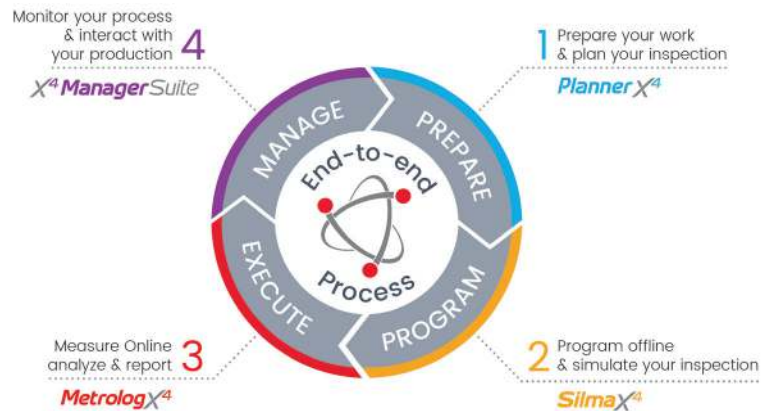
X⁴ i-Monitor

- A new revolutionary approach to delivering live inspection results to the shop floor.
- Available in Metrolog X4 Version 5 and already compatible with Robots but also CMM and other Metrolog X4 applications.
- Especially designed to work on touch screen human interface.
- Available as a standalone station or as an add-on to any existing X4 license.

Scale your quality inspection fast and make sense of your 3D measurements

Your End-to-End 3D inspection solution to streamline your workflow.

Take your quality inspection to the next level with the combination of both simulation and measuring software. Gain peace of mind with Silma for preparing and programming before you inspect and Metrolog X4 for on-machine execution and analysis. The most comprehensive and universal 3D measurement software solution on the market.



Let us show you how it works

Contact us for a free onsite demo. Using your own part and measuring device, we'll demonstrate specifically how we can help make your processes more efficient, cost-effective and easier.

About Metrologic Group

Metrologic Group empowers its customers to solve complex 3D measurement challenges and boost their measuring device operation using the most innovative hardware, independent 3D measuring software solutions and dedicated electronics. In the 3D metrology market since 1980 with the well-known Metrolog software, with offices and distributors throughout the world, Metrologic Group solutions are considered the reference in industries like automotive, aerospace transportation, energy, watchmaking and medical, to name a few. The company is part of Sandvik Applied Manufacturing Technologies (AMT), bringing together more than 150 years of Sandvik's manufacturing expertise with the latest developments in digital technologies. Its work spans the full manufacturing value chain, from design and planning to preparation, production, verification, and evaluation. Together with its world-class network of partners, Sandvik AMT provides a one-stop shop for component manufacturers looking to be at the forefront of a new generation of digital manufacturing.

Metrologic Group by the Numbers

110+

Direct Machine Interfaces

+3000

Simulation Data Library

60+

Countries with Metrolog X4 Users

30+

Countries with Local Support

19

Interface Languages

ANY DATA | ANY TECHNOLOGY | ANY APPLICATION

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