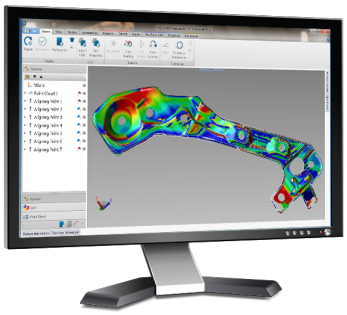
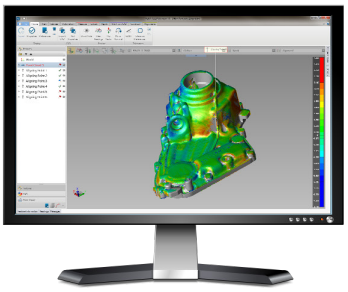
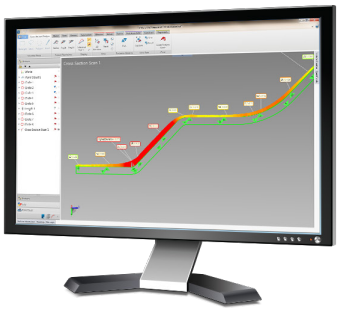
CAM2 Measure 10

Your Complete 3D Measurement Software

FARO CAM2 Measure 10 is a metrology software suite designed for users who are seeking powerful solutions that enable fast and efficient 3D measurement with unbeatable simplicity.







CAM2 Measure 10–Full**:** A comprehensive version ideally suited for all contact and non-contact 3D measurement applications when point cloud data may be required.

CAM2 Measure 10–Probing**:** A limited version ideally suited for all contact measurement applications when point cloud data is not required.

Version Comparison

CAM2 Measure 10 – Full and **CAM2 Measure 10** – Probing

Capability Comparison	Probing	Full
Compatible with contact devices	x	x
Compatible with non-contact devices		x
Device relocation	x	x
CAD import	x	x
Constructions and dimensions	x	x
Coordinate systems	x	x
Alignments	x	x
GD&T	x	x
Point cloud editing		x
Point cloud analysis		x
Report generation	x	x

Hardware Compatibility	Probing	Full
FaroArm®	x	x
Laser Line Probe		x
Laser Tracker	x	x
3D Imager		x

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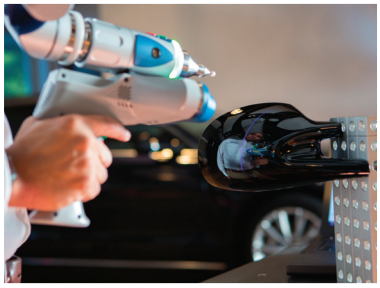
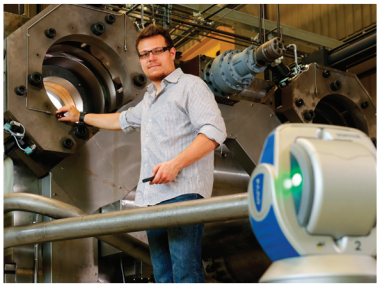

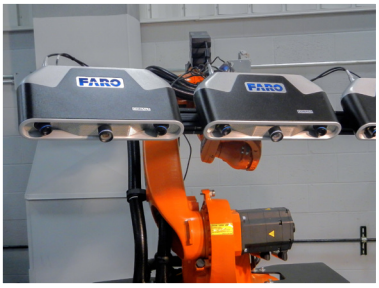

Key Features

Live Color Scan*
Users can quickly scan free-form parts and check their quality in real time. The software provides immediate feedback with different color deviations from the CAD model during the scanning process, supporting an easy and prompt identification of inconsistencies. No additional post scan analysis is required.

Point Cloud Registration*
Users can merge two or more spatially disjointed point clouds from a common part. This is very useful when the user has to move an already scanned part to a new position for scanning from a different side, or move the scanning device to a new location and scan from there without the need to reference the new device's position.

Cross Section Analysis
This feature allows for the 2D analysis of scan data over a well-defined area of the CAD model. Users can extract dimensions (radius, angle, height) for analysis, add markers to define locations where labels will show deviations and set the best view for reporting.

Remote Measurement
With the CAM2 Measure 10 Remote App, Apple iPhone®, iPod touch® and iPad® owners for example, can communicate with their CAM2 Measure 10 via WLAN and thus conduct remote measurement. Examples of remote measurement features include: run commands, change scanning modes, take positions and see results in real-time. It also supports multiple operators and QuickTools.

Deviation Markers
Users can preset the areas where detailed analysis will be needed. The software simplifies the measurement process by guiding operators to those areas where data must be collected.

Key Benefits

- Interactivity: Live feedback displaying results in a graphical 3D view and immediate recalculation of results
- Consistency: Image-based support for measurement guidance; live error display during measurements
- Flexibility: Immediate measurement; one click repeat part measurement
- Reliability: NIST / PTB certification
- Ease of use

Common Applications

- General Part Inspection
- CAD-to-Part Comparison
- Inspection of Dies and Molds
- Panel Inspection
- Inspection of Cast / Forged Parts
- Component Alignment & Assembly
- First Article Inspection
- Verification of Tools, Jigs and Fixtures
- Inspection of Interior Components

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Latest Advancements

*Simultaneous Measurement Capabilities**

Connect multiple 3D measurement devices within the same coordinate system and simultaneously scan into a single seat of software on one computer. This capability allows users to quickly scan large objects and complete 3D scanning jobs faster than ever before.

GD&T Advancements

Simplified analysis and visual reporting allows the results from a part inspection to be displayed just like a print to easily visualize and determine part quality. This completely eliminates the need to look at each feature sequentially to make the same determination.

Automated Repeat Inspections

Easily automate repeat inspections by programming data analysis to automatically occur after the measurements are taken. The ability to automate these recurring inspection tasks can reduce required training time, eliminate the risk of operator error, and allow jobs to be completed quickly and confidently.

*Expanded Point Cloud Capacity**

Collect over 20 times more data than in previous versions while maintaining processing speed.

*3D Scan Trim Edges**

Trim edges on materials such as sheet metal, can be easily scanned, preventing the need to collect hard probed measurements on part edges.

Additional Capabilities

Import/Export

- Import/export points to a text file
- Import CAD files
- Export measurement results to CAD
- Export Point Cloud to mesh
- Export CAD as XGL

Measurement

- Seamless connection to FARO hardware devices
- Direct measurement mode
- Automatic projection plane mode
- QuickTools programming module
- Tube measurement
- Easily align to part
- Live feedback during measurement
- Guided geometry measurement
- Repeated part measurement

Programming

- Record steps for a part program (online/offline)
- Play steps in a measurement program
- Integrated programming module

Alignments

- Align My Part Wizard
- Iterative
- 3.2.1
- Six-point surface
- RPS
- Constrained Iterative

Nominals

- Pick features from CAD (single click)
- Create nominal features by entering values

Reporting

- Versatile export formats
- Report with images and in different CS
- Export to HTML, text, Microsoft® Excel, PDF

*Live Color Scan**

- Color scale in the 3D view
- Surface Profile GD&T
- Place labels on your scan to determine deviations at critical locations
- Export scans to text file

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Hardware Requirements

CAM2 Measure — Probing

Minimum Requirements

- Intel® Pentium® Core™ i5-4200M, Dual Core 2.5GHz processor
- 8 GB DDR3 RAM
- Graphics resolution - 1600 x 900
- NVIDIA Quadro K1100M with 2 GB of Video RAM
- One free USB port if the Measure licensing is with a port lock
- DVD-ROM 8x speed or higher
- Standard PS/2 or USB mouse
- 500 GB hard drive, 5400RPM

Recommended Requirements

- Intel® Pentium® Core™ i7-4600M, Dual Core 2.9GHz processor
- 16 GB DDR3 RAM
- Graphics resolution - 1920 x1080
- NVIDIA Quadro FX K3100M with 4 GB of Video RAM
- One free USB port if the Measure licensing is with a port lock
- DVD-ROM 8x speed or higher
- Standard PS/2 or USB mouse
- 256 GB Solid state hard drive

CAM2 Measure — Full

Note: We recommend Windows 8.1 64 bit Professional operating system for point cloud scanning

Minimum Requirements

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- 16 GB DDR3 RAM
- Graphics resolution - 1920 x1080
- NVIDIA Quadro FX K3100M with 4 GB of Video RAM
- One free USB port if the Measure licensing is with a port lock
- DVD-ROM 8x speed or higher
- Standard PS/2 or USB mouse
- 256 GB Solid state hard drive

Recommended Requirements

- Intel® Pentium® Core™ i7-4900M, Quad Core 2.8GHz processor
- 32 GB DDR3 RAM
- Graphics resolution - 1920 x1080
- NVIDIA Quadro FX K5100M with 8 GB of Video RAM
- One free USB port if the Measure licensing is with a port lock
- DVD-ROM 8x speed or higher
- Standard PS/2 or USB mouse
- 512 GB Solid state hard drive plus 1 TB SATA 6 hard drive

The following computer operating systems are supported

- Microsoft Windows Vista (32-bit or 64-bit)
- Microsoft Internet Explorer 7.0
- Adobe Acrobat Reader 6.0 or later (to print manuals)

OR

- Microsoft Windows 7 (32-bit or 64-bit)
- Microsoft Windows 8 and 8.1 (32-bit or 64-bit)
- Microsoft Internet Explorer 8.0
- Adobe Acrobat Reader 6.0 or later (to print manuals)

Specifications

Data input	Parasolid®, IGES, VDA/FS, STEP ▪ Optional - Unigraphics®, Solidworks®, CATIA®, Solid Edge®, ProE® & Inventor®
Data output	Parasolid®, IGES, VDA/FS, STEP
Languages	Chinese ▪ English ▪ French ▪ German ▪ Italian ▪ Japanese Portuguese ▪ Polish ▪ Russian ▪ Spanish ▪ Turkish

*Included in the CAM2 Measure 10 – Full only

ISO 9001 BUREAU VERITAS Certification

GSA Contract Holder