



FARO® CAM2® 2018

The World's Smartest 3D Measurement Platform

Integrated Experience, Intuitive Workflow and Insightful Reporting

FARO CAM2 2018 is the world's smartest 3D measurement platform and the only metrology software in the market that delivers on the strategic goals to always offer the best integrated FARO hardware experience, intuitive workflow and insightful reporting. CAM2 allows any user to quickly and easily accomplish their measurement tasks and capture actionable data through the intuitive user interface and automated measurement workflows.

CAM2 delivers the perfect alignment between your FARO hardware and FARO software to gather measurement data. It provides a seamless and manageable measurement experience along with accurate and full insight into your measurement results.

The CAM2 platform's focus on faster, easier and better immediately translates into less time and resources, as well as, lower costs for your business.



FARO Inside - Integrated Measurement Solutions

Regardless of your choice of FARO hardware or whether you are using it for tactile measurement or non-contact 3D scanning applications, CAM2 is the only software that can ensure maximum feature integration with your FARO solution. With FARO CAM2, you always have the dependability of best-in-class service and a single source of support for your FARO solutions.

Guided Workflows - Simple and Easy Measurement

With CAM2, you do not need to be a highly-skilled or seasoned metrologist as the software allows any user to simply and easily step through almost any measurement inspection routine. CAM2 is the only metrology platform that includes "RPM" – Repeat Part Management. With RPM, a user can perform a fully-guided inspection routine via RPM Control Station, enabling the inspection process to be executed by anyone across your factory floor. The RPM Control Station helps ensure consistency in your inspections, regardless of who conducts them, and makes it easier to increase your inline inspections.

RPM Control Center - Analyze and Correct

CAM2 features the "RPM Control Center" which delivers real-time information from a web-based dashboard that provides actionable manufacturing insight. CAM2 helps manufacturers continuously improve their processes by providing ongoing knowledge as to what is working or not working as well as trend analysis. RPM Control Center generates at-a-glance perspectives of inspection and quality routines so users can quickly identify areas or issues that may need attention.

Benefits

- ▶ **Easy to Use:** Intuitive graphical user interface (UI) that allows for quick set-up and management of inspection workflows
- ▶ **FARO Inside:** Unique integration to support FARO metrology solutions
- ▶ **Scalability:** Support of multiple devices operating simultaneously; easy setup of devices within one measurement volume
- ▶ **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 measurements
- ▶ **Reliability:** Certified by National Institute of Standards (NIST) and German Physikalisch-Technische Bundesanstalt (PTB)

Key Features

- ▶ **RPM (Repeat Part Management):** CAM2 allows you to quickly and simply set up repeatable measurement inspection workflows that can be pushed to any workstation and then executed by multiple users anywhere across your factory floor.
- ▶ **Simultaneous Measurement Capabilities:** Users can easily connect several measurement devices to one running instance of CAM2. This provides the scalability that reduces the inspection time by parallelizing the data capture process during any measurement job.
- ▶ **Live Color Scan:** Users can quickly scan free-form parts and check their quality in real-time. The software provides immediate feedback with different colors for showing deviations from the CAD model during the scanning process, supporting an easy and prompt identification of inconsistencies. No additional post scan analysis is required.
- ▶ **Align My Part Wizard:** The Align My Part Wizard enables simple CAD-to-Part alignment. With a single button click, the user is guided through the process of defining an alignment using 3 datums or 6 or more surface points.
- ▶ **Remote Measurement:** With the CAM2 Remote Apple App, iPhone®, iPod Touch® and iPad® owners can communicate with their CAM2 via WLAN and thus conduct remote measurements: run commands, change scanning modes, take positions, and see results in real-time. It also supports multiple operators and QuickTools.
- ▶ **Super 6DoF TrackArm Positioning:** The Locate TrackArm Wizard guides the user to easily align a FaroArm® or FARO ScanArm (with TrackArm kit) to a FARO Laser Tracker, enabling users to measure with a FaroArm or FARO ScanArm over a larger volume within the same coordinate system.

Version Comparison

Capability Comparison	Probing	Full
Operate with contact devices	X	X
Operate 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
Repeat Part Management (RPM)		X
Hardware Compatibility Comparison		
FaroArm	X	X
FARO Laser Line Probe		X
FARO Laser Tracker	X	X
FARO Super 6DoF TrackArm	X	X
FARO Cobalt Array Imager		X

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**
 - Multiple concurrent device support
 - 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

Specifications

Hardware	Recommended Requirements
Processor	Quad Core CPU
RAM	16GB
Hard Drive	512GB SSD
Graphics	NVIDIA Quadro® M2200
Display Resolution	1920p x 1080p (HD)
USB ports	1 (if using portlock licensing)

Platform: Microsoft® Windows® 10 64-bit • Microsoft Windows 8.1 64-bit • Microsoft Windows 7 64-bit

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

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Contract Holder