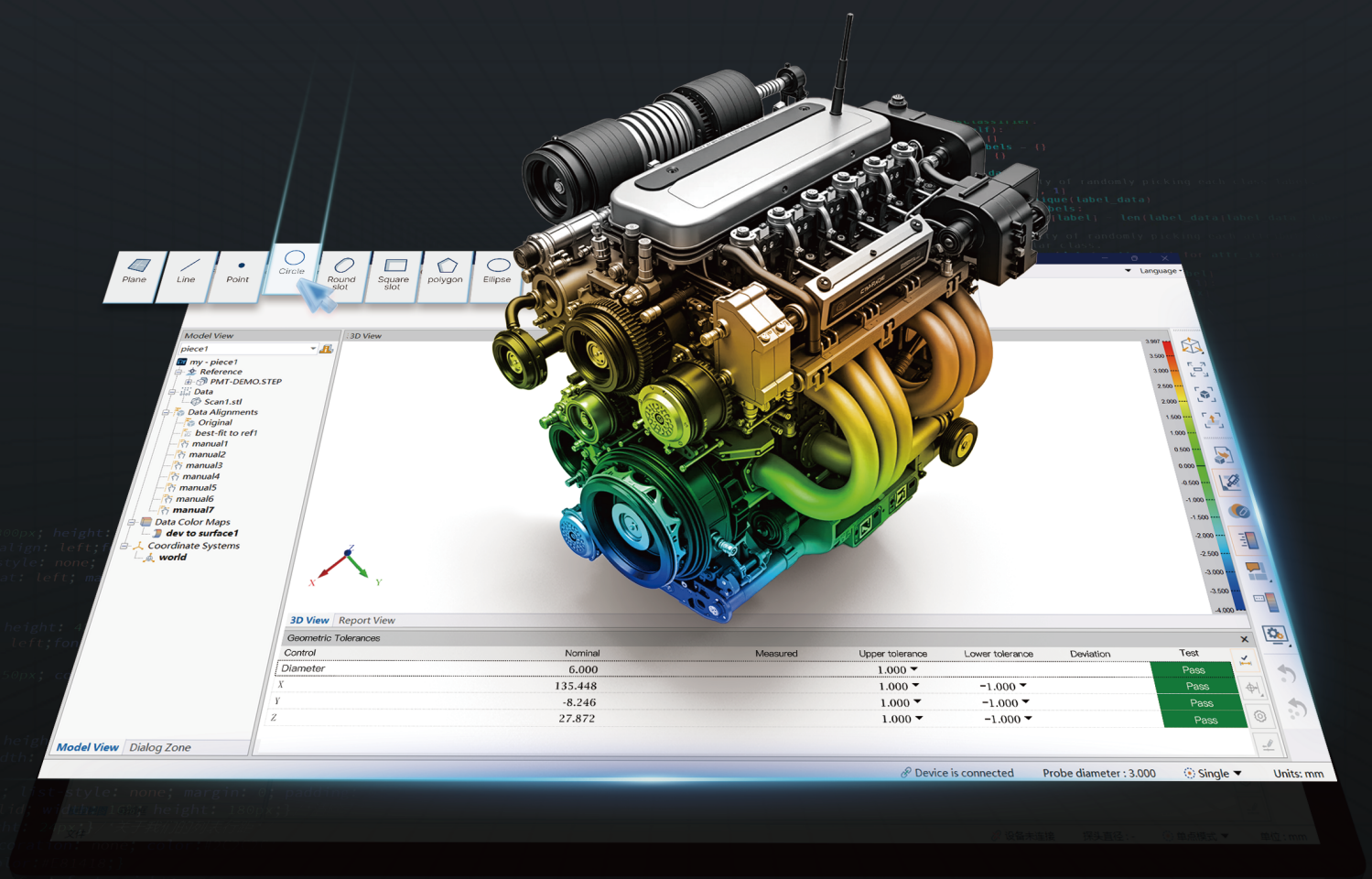
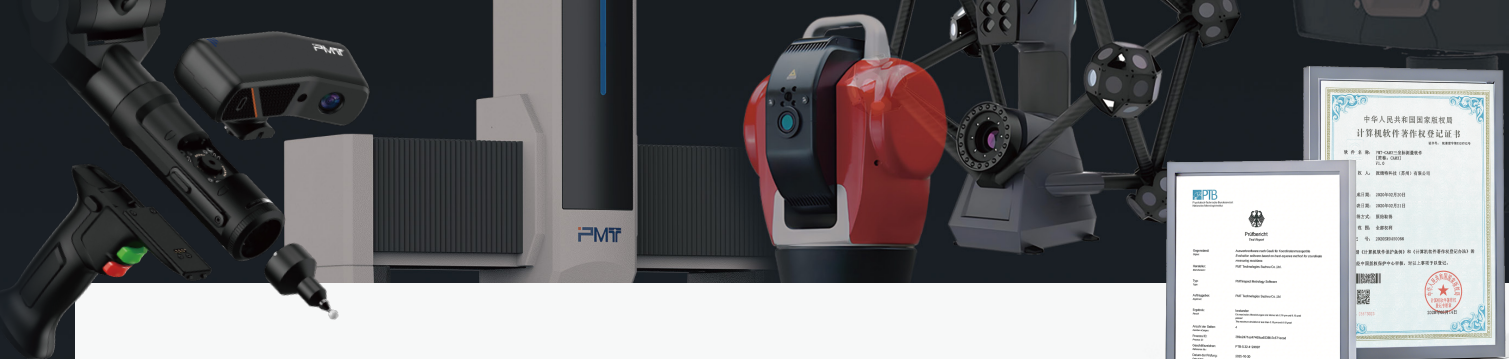


FMT[®] INSPECT

The Universal 3D Metrology Platform Precision for Every Scenario





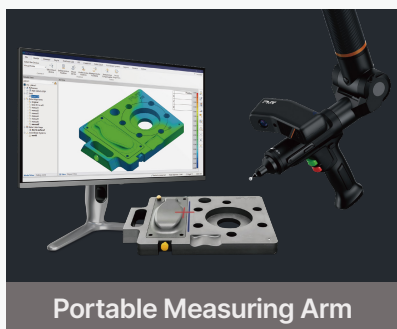
PMT INSPECT

Intuitive Interface for Demanding Industrial Environments

PMT INSPECT is a powerful 3D metrology platform delivering end-to-end digital quality control for advanced manufacturing. Powered by a unified data architecture, it seamlessly integrates with all major high-precision hardware — including portable measuring arms, laser trackers, CMMs, handheld 3D laser scanners, vision measuring machines and profilometers. Achieve 10-micron to nanometer precision in any production environment. By closing the quality loop from component inspection to final assembly, it provides a seamless, intuitive, and total measurement solution.

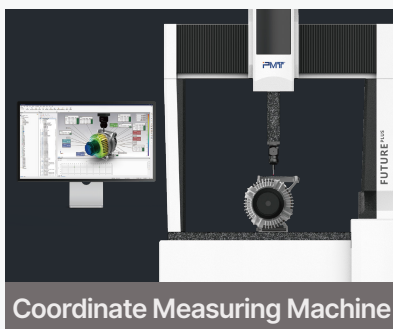
Unified Real-Time Measurement Platform

- ◆ Bridge the gap between contact and non-contact devices. From massive assemblies to micro-details, the platform ensures a single, consistent data baseline across all scales and hardware.



Portable Measuring Arm

Real-time CAD-to-part comparison for instant assembly correction. From precision GD&T to alignment testing, this versatile platform handles nearly any measurement challenge on the shop floor.



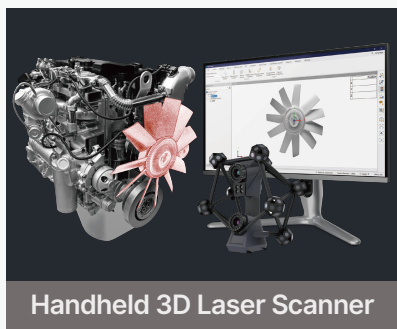
Coordinate Measuring Machine

Automated inspection, data analysis, and report generation in one platform. Guided probing and pre-defined routines ensure superior repeatability and efficiency for your most demanding lab tasks.



Laser Tracker

High-speed, high-precision digital inspection for large-scale industrial parts. Powered by smart algorithms and point cloud capture, it is built to handle the rigorous GD&T demands of aerospace and shipbuilding.



Handheld 3D Laser Scanner

Rapidly capture 3D data with laser or structured light for instant point cloud processing. Support full-scale dimensional inspection, GD&T, and 3D modeling for manufacturing, reverse engineering, and artifact restoration.



Vision Measuring Machine

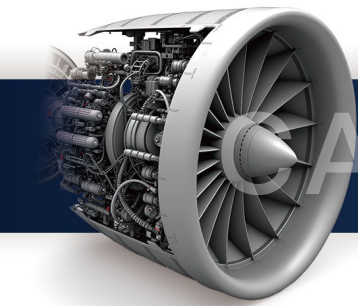
High-precision optical measurement powered by PMT INSPECT. Featuring auto-edge detection and sub-pixel analysis, it delivers superior accuracy for micro-measurements and surface defect inspection.



Profilometer

Streamlined data processing with automatic gap filtering to boost efficiency. Its software-driven compensation minimizes axis errors and corrects eccentricity, ensuring peak performance across all axes.

Comprehensive Dimensional Measurement & Analysis



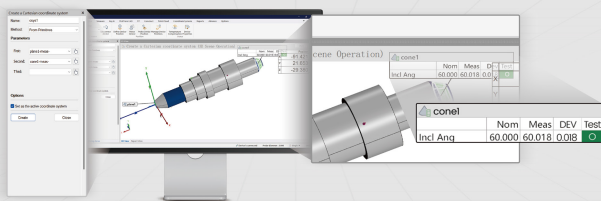
CAD

Precision
3D Data Capture



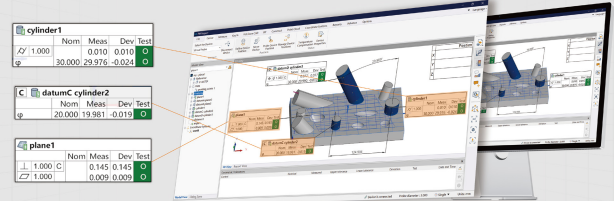
Flexible Alignment & Datums

Create custom coordinate systems for any scenario. Use weights and axial constraints to optimize results and ensure maximum data reliability.



Smart GD&T Engine

Next-gen tolerance control compliant with ASME and ISO standards. Accurately calculate every geometric dimension and GD&T requirement for your parts.



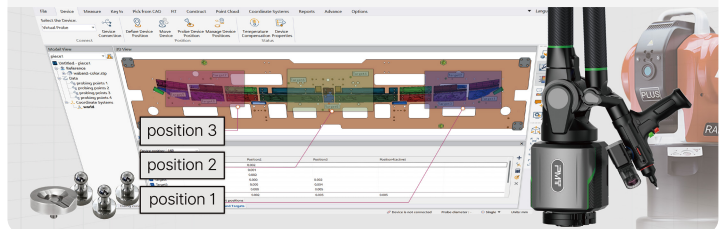
Real-Time Assembly & Alignment

Instant data analysis for precision fitting and validation. Build a connected measurement ecosystem across your entire workshop.



Multi-Station Alignment

Seamlessly extend your measurement range for oversized parts or hidden features. Automated target matching ensures a perfect, unified data set, no matter the scale.



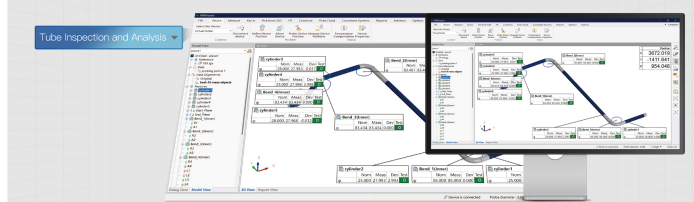
Automated Batch Inspection

Create repeatable measurement routines with ease. Record your steps once to automate high-volume inspection and ensure every part meets tolerance.



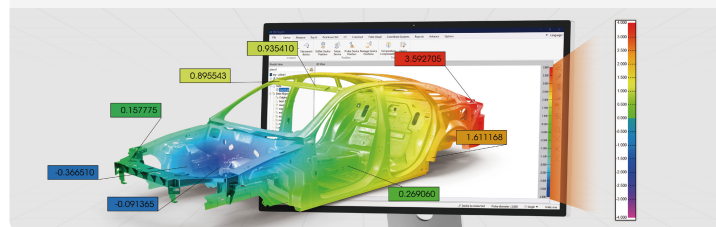
End-to-End Tube Inspection

A complete workflow from data capture to reverse modeling. Automatically calculate core LRA/YBC parameters with support for any measurement device or scenario.



Smart Color Map Analysis

High-definition 3D deviation heatmaps for complex features. Instantly visualize quality gaps in surfaces, boundaries, cross-sections and thickness compared to nominal CAD data.



Smart Digital Reporting

Analyze deviations with universal export formats and fully customizable layouts. Provide a seamless data thread for your entire product lifecycle.



Robust Data Protection

PMT INSPECT is a scalable data solution that transforms massive 3D metrology data into real-time quality insights to power smart manufacturing.



Flexible Data I/O

Seamlessly import and export CAD (STEP, IGS), point cloud, and mesh data. (PCD, TXT, XYZ, ASC, CSV, PLY, OBJ, STL)



Optimized Data Storage

Store all 3D measurement data in one optimized folder. Reduce your storage footprint with advanced, format-specific compression.



Smart Play Inspection

Automate your entire workflow using Play Inspection and Sequence Editor. Create smart, auto-triggered routines for consistent, error-free results.



Optimized Data Speed

Experience lag-free uploads and downloads. The smart cache keeps data transfers lean and stable for a smooth, high-performance workflow.



Advanced Data Shield

Secure your 3D measurements with our independent encryption engine. Multi-layered protection ensures your data stays private and safe, always.

Industry Solutions



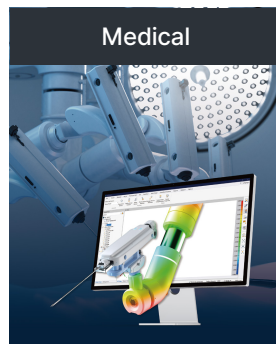
Industrial

Precision inspection for automotive and aerospace, from engine blades to body panels.



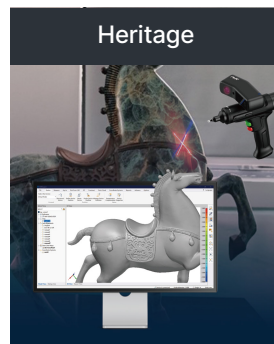
Reverse Engineering

Rapid CAD generation from scans to speed up R&D or replicate legacy parts.



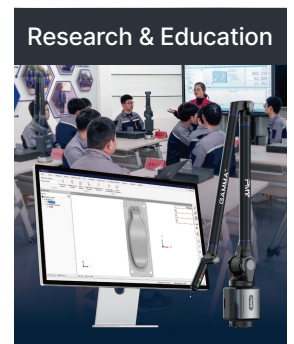
Medical

Trajectory and fit verification for surgical robotics and dental aligners.



Heritage

High-fidelity 3D archiving for the restoration and virtual display of relics.



Research & Education

Morphological analysis and 3D visualization for labs and universities.

System Requirements

Name	Minimum	Recommended
CPU	Dual-core	Quad-core
RAM	4GB	32GB
GPU	1 GB VRAM (NVIDIA)	2 GB+ VRAM (NVIDIA Professional)
OS	Windows 10/8.1/7 Pro (64-bit)	
Input	2-button mouse with scroll wheel	

Supported Hardware

Name		PROBE	CNC	SCAN	FULL
Manual Probing	Portable Measuring Arms Laser Tracker Optical CMMs	•			•
Manual Scanning	Laser Scanning Arms Handheld 3D Laser Scanners Structured Light Scanners			•	•
Automated Probing	Coordinate Measuring Machine		•		•
Automated Scanning	Coordinate Measuring Machine				•

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