

NEWSLETTER

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Precision Inspection Starts With Clear Vision

Dimensional inspection **becomes more challenging** as parts get smaller, tolerances tighten, and consistency across operators is required. Vision-based measurement systems address this by combining optics, lighting, motion control, and software to deliver fast, repeatable, non-contact inspection.

Qualitest offers a focused lineup of **Vision Measuring Machines (QualiVMM™)**, **Video Measuring Projectors (QualiVMP™)**, and **Digital Readout Solutions** to help QC and production teams improve consistency, reduce variation, and scale inspection workflows.

QualiVMM™ Series

The QualiVMM™ Series supports scalable vision measurement—from routine 2D inspection to fully automated CNC and multisensor workflows. Designed with stable mechanical structures, controlled motion, and integrated software, it helps ensure repeatable, high-accuracy results across demanding QC and production environments.

Basic Video Measuring Machine (VMM)

QualiVMM™ Basic Series



Feature/Advantages:

- High-resolution zoom lens for clear edge inspection.
- Software-controlled LED lighting to improve contrast on different materials and finishes.
- Practical measurement workflow for routine QC without the complexity of full CNC automation.
- Available in compact and larger-stage configurations to match part size and throughput needs.

Typical Applications :

- Routine dimensional checks on machined parts and standard production components.
- Length, diameter, radius, angle, and feature-location measurement from live digital images.
- QC environments that need dependable visual metrology for everyday inspection work.



QualiTrivia💡

Optical metrology helps reduce one of the biggest hidden inspection risks: **operator interpretation**. When lighting, magnification, motion control, and software-based edge detection are standardized, teams can improve consistency from one shift to the next without relying only on manual visual judgment. That is one reason vision-based dimensional systems are widely used in repeatable QC programs.

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Automatic Vision Measuring Machine

QualiVMM™ Auto Series



Feature/Advantages:

- CNC-controlled XYZ motion for automated and repeatable inspections.
- Precision linear guides, ball screw, and servo drive control for stable positioning.
- 0.5 μm scale resolution for reliable dimensional readings.
- Measurement software with GD&T evaluation, CAD import, array measurement, and report export.

Typical Applications :

- Dimensional inspection for machined parts.
- Electronics and precision components requiring stable imaging and controlled lighting.
- Program-based inspection for consistent results across shifts
- 2.5D & 3D measurement tasks when additional sensors are used.

Heavy-Duty Multisensor Vision Measuring Machine (VMM)

QualiVMM™ MuSen Series



Feature/Advantages:

- Heavy-duty moving-bridge structure while the workpiece stays fixed.
- Four-axis CNC automation with closed-loop control for repeatable measurement routines.
- HD imaging with motorized zoom optics for clear visual measurement.
- Optional multisensor capability with contact probing and laser sensing.

Typical Applications :

- Electronics and connector manufacturing.
- Medical devices and precision assemblies.
- LCD and display-related components.
- Aerospace and aviation parts, fixtures, and larger plates.



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QualiVMP™ Series

The QualiVMP™ Series delivers practical, projector-based measurement for routine inspection tasks. By combining magnified imaging with straightforward measurement tools, it enables fast checks, improved operator consistency, and reliable performance across daily QC workflows.

Basic Video Measuring Projector

QualiVMP™ Basic Series



Feature/Advantages:

- Low return error stage design for repeatable positioning.
- Precision worktable and optical scale for dependable measurement performance.
- Zoom lens and high-resolution color camera for clear image capture.
- DP400 multifunction digital readout for geometry measurement and compensation functions.

Typical Applications:

- Daily dimensional checks on machined parts and stamped components.
- Simple profile measurement and go/no-go verification.
- Incoming inspection and supplier screening.

Why Choose Qualitest for Vision Measurement Equipment

- Broad lineup that covers manual, CNC, projector-based, and multisensor inspection needs.
- Stable mechanical platforms with granite structures and controlled motion for repeatable measurement.
- Flexible lighting and imaging systems that help improve edge contrast across different materials.
- Software-driven workflows that support routine QC, traceability, and scalable reporting.
- Upgrade paths from basic inspection to more advanced metrology capability as requirements grow.

Advanced Video Measuring Projector

QualiVMP™ Adv Series



Feature/Advantages:

- Precision stage motion with low return error.
- High-resolution imaging with zoom optics for sharp feature capture.
- Multi-zone LED lighting for different finishes and materials.
- Vision measurement software for geometry functions and reporting.
- Optional touch probe, 3D capability, and autofocus upgrade support.

Typical Applications :

- Higher-throughput inspection routines.
- Production QA requiring repeatable multi-feature measurements.
- More demanding 2D inspection tasks with stronger control over lighting and consistency.

Multifunction Digital Readout

QualiDigi™ Readout 400



Feature/Advantages:

- Processes X/Y/Z (or X/Y/Q) signals from linear scales for accurate position tracking.
- Supports mm/inch unit conversion for flexible measurement workflows.
- Built-in geometry functions for common 2D measurements and calculations.

- 5.6-inch color display for clear, real-time data visualization.
- Sealed silicone keypad for reliable operation in daily QC environments.
- Integrated data processing and display for faster inspection workflows.

Ready to improve speed, accuracy, and confidence in dimensional inspection?

Qualitest's VMM - Vision Measuring Machine lineup is built to help laboratories and production teams standardize inspection, reduce variation, and choose the right level of automation for their workflow. Explore WorldofTest's VMM and VMP lineup for repeatable vision measurement solutions—built for QC, production support, and R&D verification: <https://www.worldoftest.com/vmm-vision-measuring-machine/>

For expert guidance on selecting the right configuration for your parts, tolerances, and inspection workflow, contact: sales@qualitest-inc.com