

QUAKELOGIC

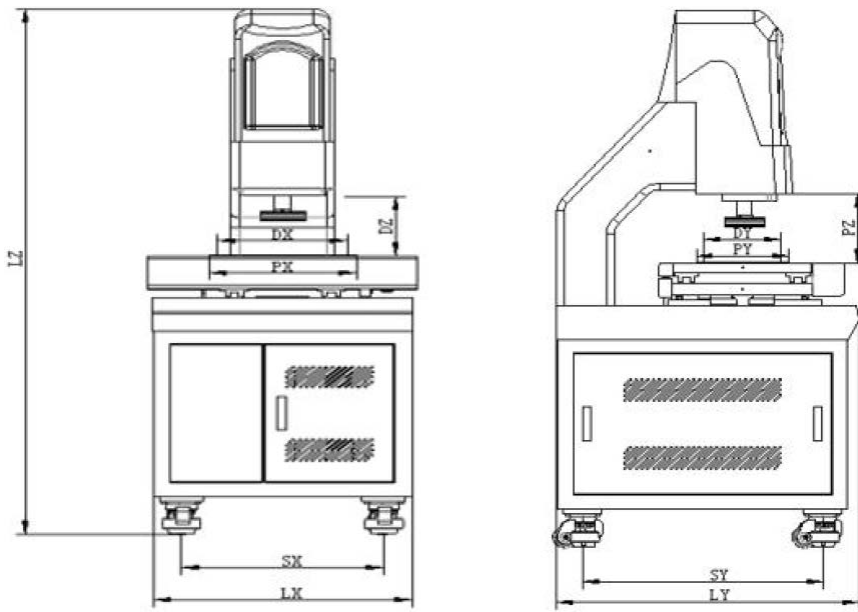
AUTOMATED OPTICAL MEASUREMENT SYSTEM



QL-OptiMeasure

QL-OptiMeasure

Automated Optical Measurement System



AUTOMATED OPTICAL MEASUREMENT AND INSPECTION

The QL-OptiMeasure is an automated dimensional measurement platform combining vision inspection and contact probe measurement in a single CNC-positioned system. Built for laboratory and instructional applications, it pairs a 2.3-megapixel industrial camera with a Renishaw touch probe over a 15.75 × 11.81 × 7.87 in (400 × 300 × 200 mm) X/Y/Z measuring range. Integrated OM-3D software delivers programmable routines, measurement analysis, and inspection reporting without third-party packages.

- Dual optical and contact measurement in one platform verifies component dimensions and features while adding height, step, and flatness capability for complete inspection coverage.
- Automated three-axis CNC positioning executes stored inspection routines repeatably, removing operator variability from dimensional measurement and routine quality checks.
- Integrated OM-3D software generates measurement analysis and inspection reports with Excel export, keeping the full workflow on the supplied workstation.
- Complete turnkey package ships with workstation, monitor, licenses, calibration accessories, documentation, and training support for immediate deployment.

STANDARD FEATURES »

- Dedicated Lenovo workstation
- 24-inch monitor
- OM-3D software licenses
- Activation dongle
- Renishaw touch probe
- 0.039 in and 0.079 in (1.0 mm and 2.0 mm)
- Calibration accessories
- Voltage transformer
- Power and connection cables
- Installation materials
- Operating manual
- Calibration guidance
- Training videos
- Remote technical assistance
- Protective wooden packaging

Key Features

- Automated vision inspection and contact probe measurement combine in one platform, covering dimensional, feature, height, step, and flatness measurement tasks.
- Three-axis CNC positioning across a $15.75 \times 11.81 \times 7.87$ in measuring range drives repeatable, programmed inspection sequences without manual stage movement.
- 2.3-megapixel industrial camera with autofocus and adjustable magnification delivers clear live imaging for precise optical dimensional measurement.
- Controlled, adjustable illumination optimizes contrast on varied surfaces so edge detection and feature recognition stay consistent across parts.
- Renishaw contact touch probe with 0.039 in and 0.079 in (1.0 mm and 2.0 mm) tips adds tactile measurement where optical methods cannot reach.
- OM-3D software stores and executes programmable measurement routines, reducing setup time on repeat parts and standardizing inspection procedures.
- Software-assisted part positioning guides operators through programmed sequences, simplifying alignment and shortening measurement cycles.
- Inspection report generation with Excel data export streamlines record-keeping and downstream analysis of measurement results.
- Dedicated Lenovo workstation ships with software installed, activated, and configured, ready for live camera display on a 24-inch monitor.

PRODUCT FEATURES

Optical System

2.3-megapixel industrial camera · Adjustable optical magnification · Automatic focusing · Controlled, adjustable illumination

Contact Probe

Renishaw contact touch probe · Standard 0.039 in and 0.079 in (1.0 mm and 2.0 mm) tips · Height, step, and flatness measurement

Motion Control

Automated three-axis CNC positioning · Programmable inspection sequences · Software-assisted part positioning

Software

OM-3D measurement suite · Programmable measurement routines · Inspection report generation · Excel data export

Workstation

Dedicated Lenovo computer · 24-inch display · Live camera display

For more information about the features, specifications, and available configurations of the QL-OptiMeasure, please contact QuakeLogic.

SYSTEM CONFIGURATION

COMPONENT	CONFIGURATION
Camera	2.3-megapixel industrial camera
Optics	Adjustable optical magnification
Focusing	Automatic focusing
Illumination	Controlled, adjustable
Contact Probe	Renishaw touch probe, 0.039 in and 0.079 in (1.0 mm and 2.0 mm) probe tips
Motion Control	Automated three-axis CNC positioning
Measurement Software	OM-3D
Workstation	Dedicated Lenovo computer
Monitor	24-inch display
Electrical Supply	110 VAC, 60 Hz (transformer included)

MEASURING RANGE

SPECIFICATION	VALUE
X-Axis Measuring Range	15.75 in (400 mm)
Y-Axis Measuring Range	11.81 in (300 mm)
Z-Axis Measuring Range	7.87 in (200 mm)

TECHNICAL SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Model	QL-OptiMeasure
System Type	Automated optical measurement and inspection with contact probe
X/Y/Z Measuring Range	15.75 × 11.81 × 7.87 in (400 × 300 × 200 mm)
Motion Control	Automated three-axis CNC positioning
Measurement Functions	Optical dimensional, vision inspection, contact probe
Measurement Programming	Create, store, and execute inspection routines
Positioning Assistance	Software-assisted part positioning
Camera	2.3-megapixel industrial camera
Optics	Adjustable optical magnification
Focusing	Automatic focusing
Illumination	Controlled, adjustable
Image Viewing	Live camera display via workstation
Contact Probe	Renishaw contact touch probe
Probe Tips	0.039 in and 0.079 in (1.0 mm and 2.0 mm)
Contact Measurement	Height, step, and flatness
Measurement Software	OM-3D

SPECIFICATION	DESCRIPTION
Report and Data Export	Excel format
Software Licensing	Operating licenses and activation dongle included
Computer Workstation	Dedicated Lenovo, software installed and configured
Monitor	24-inch display
Calibration Accessories	Calibration tools and reference accessories included
Electrical Supply	110 VAC, 60 Hz
Voltage Transformer	Included
Connections	Power cables, connection cables, installation materials
Documentation	Operating manual, calibration guidance, technical docs
Training	Training videos and remote assistance
Technical Support	Setup, calibration, programming, reporting, troubleshooting
Equipment Condition	Factory-new and unused
Quality Verification	Configuration and functional checks before shipment
Shipping Packaging	Protective wooden packaging
Warranty	Minimum 1 year, 100% parts and labor

OM-3D MEASUREMENT SOFTWARE

OM-3D drives the QL-OptiMeasure end to end, unifying automated vision measurement, contact probe operation, and reporting on the supplied workstation. It builds, stores, and executes programmable inspection routines, assists part positioning, analyzes measurement results, and generates inspection reports with Excel data export — no third-party packages required.

AUTOMATED VISION MEASUREMENT

Captures live imagery from the 2.3-megapixel camera with autofocus and adjustable magnification, then measures component dimensions and features under controlled illumination. Programmed routines run inspection sequences repeatably across parts, removing operator variability from optical dimensional measurement.

CONTACT PROBE OPERATION

Integrates the Renishaw touch probe with 0.039 in and 0.079 in (1.0 mm and 2.0 mm) tips for height, step, and flatness measurement where optical methods fall short. Probe functions combine with vision data in a single measurement workflow driven by the same positioning routines.

ANALYSIS AND REPORTING

Analyzes measurement results, generates inspection reports, and exports data to Excel for record-keeping and downstream review. Programmable routines are created, stored, and recalled, standardizing inspection procedures and shortening setup time on repeat parts.

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About QuakeLogic:

QuakeLogic Inc. is a California-based engineering and technology company providing innovative, reliable, high-quality solutions to customers worldwide.

Our Commitment

We are committed to quality, innovation, and customer satisfaction – building lasting partnerships through reliable solutions and dependable support.

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