QVI®

Precision for People

Measure-X®

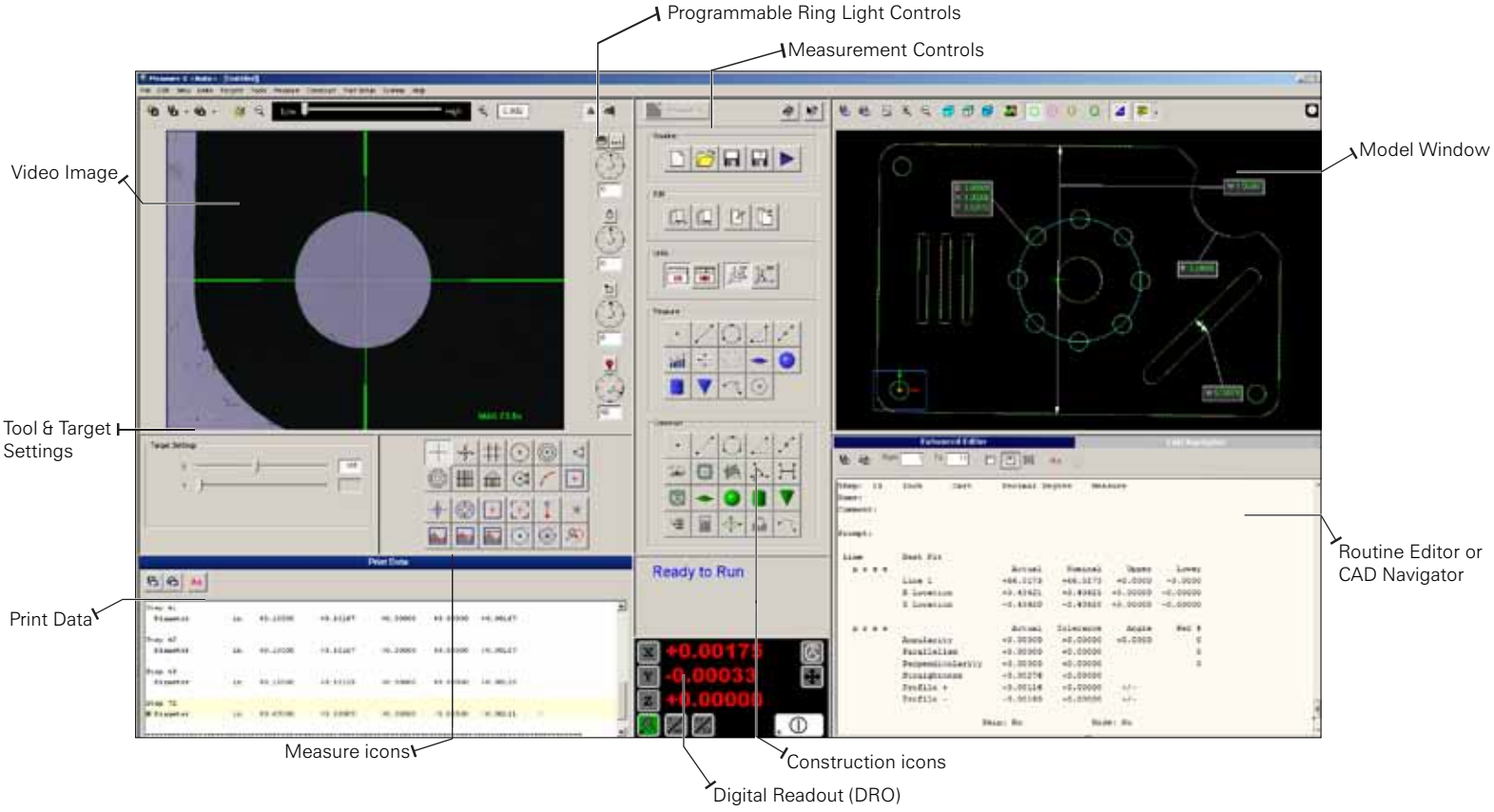
Video and Multisensor Measurement Software

Simple • Complete • Measure-X

The World's Most Popular Metrology Software

Measure-X® from QVI® makes measurement systems from RAM Optical industry favorites. Measure-X simplifies dimensional measuring with video and multiple sensor technologies available on systems produced by QVI.

Easy To Use Screen Layout

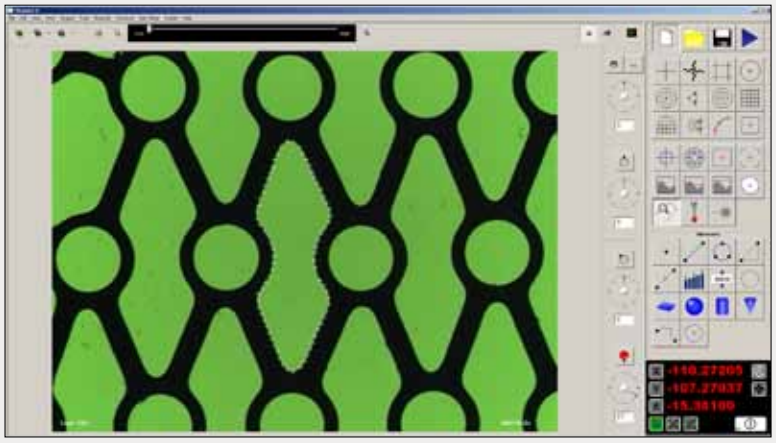


The Tools You Need At Your Fingertips

- **FeatureFinder®** is a smart tool that automatically measures lines, arcs, and circles
- **Edge Trace** provides user-defined high density point measurement along any edge of a feature or contour
- **Autofocus** on edge or surfaces establishes best focus or measures height or depth
- **Centroid** automatically measures area and center point of irregular shapes
- **Strong Edge** is a directional video tool that searches for edges inside or outside the field of view
- **Weak Edge** targets allow selection of the correct edge, even when there are stronger edges in the search area
- **Touch Probe** allows setup of individual touch probe points, or auto-path generation for multi-point measurements
- **Laser** tools allow set up of individual laser points or auto-path generation for laser scans

Simple to Use

Easy Part Routine Set-Up And Operation



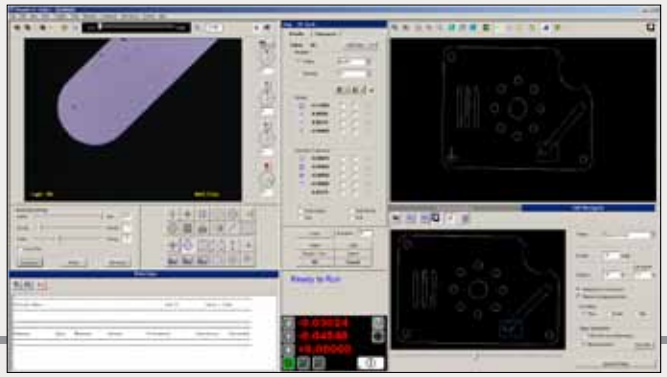
Walk-Up & Measure

Position, focus and measure a part feature using video, touch probe or laser, then go on to other features to incrementally build a virtual model of the entire part. Measure relationships directly in the model window, set axis alignments and define datums, create constructions to gather more measurements and define relationships between discrete part features. Each action becomes a step in a part routine you can save to repeat automatically.

Create Routines Offline

Use Measure-X offline to create, edit and run part routines using a saved video image. Offline operation for editing allows programming to be done anytime, anywhere, without tying up the measurement system.

Program From CAD



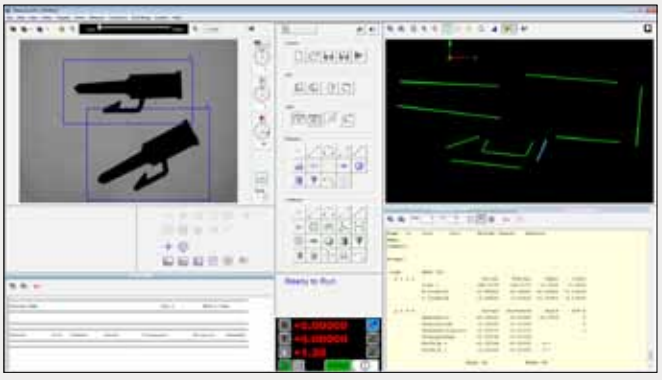
Direct From CAD

Import DXF and other popular 2D CAD file formats for automatic generation of measurement routines. Simply load the CAD file, and select features to be measured. Measure-X does the programming for you.

Run Without Fixturing

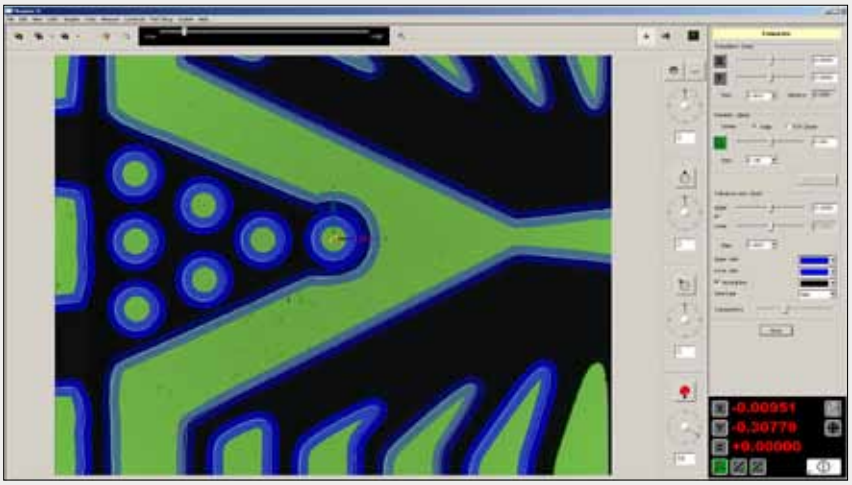
AutoCorrelate

Simply place parts on the stage and press run. Measure-X will recognize the parts and measure them automatically. No fixture or manual alignment is needed.

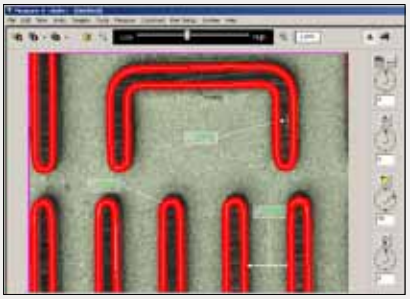


Complete Capabilities

Unique Features And Tools



Comparator Mode with Profile Light



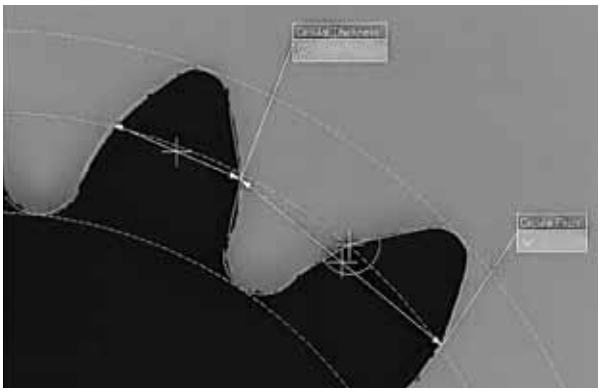
Comparator Mode with Surface Light

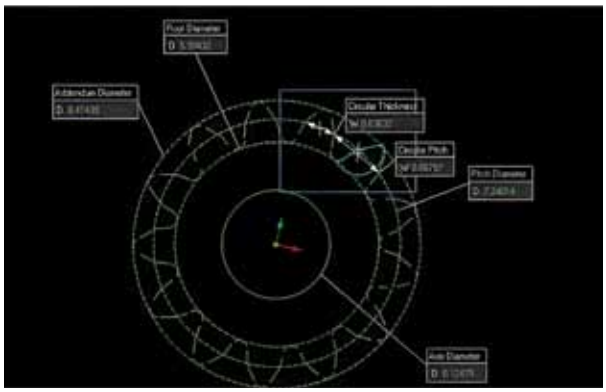
Comparator Mode

Simple to use Comparator Mode overlays the part model and tolerance bands on the video image for direct visual comparison of the actual and nominal dimensions.

Comparator mode works equally well with either backlight or surface light.

Interactive Labels & Flyouts

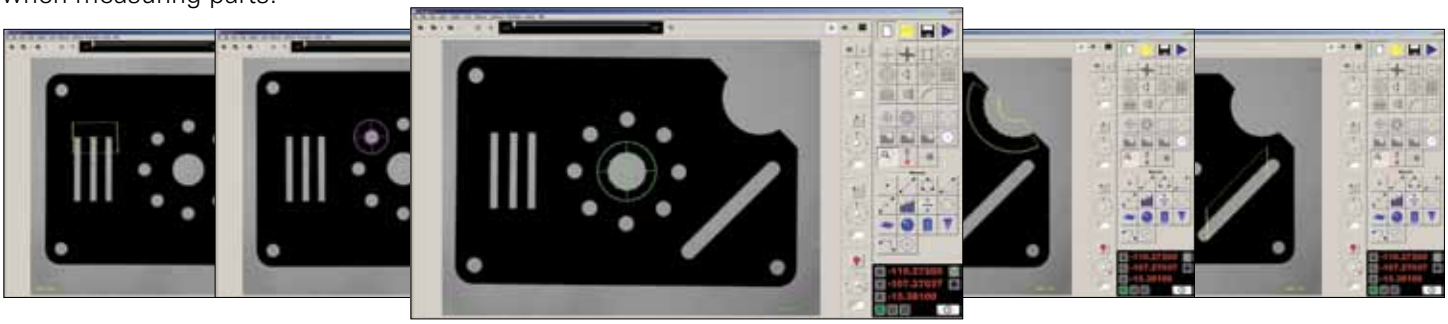




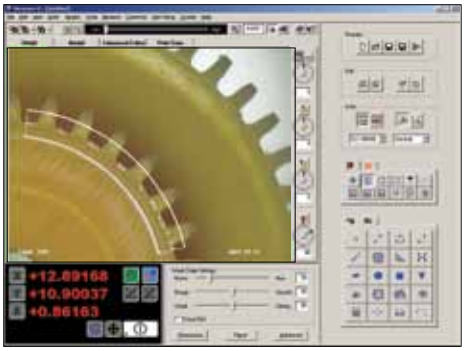
It's easy to create labels for critical dimensions directly in the model or image windows. Hover your mouse over any feature in the model window and select labels and dimensions you would like to display.

Quick Click & Measure - FeatureFinder

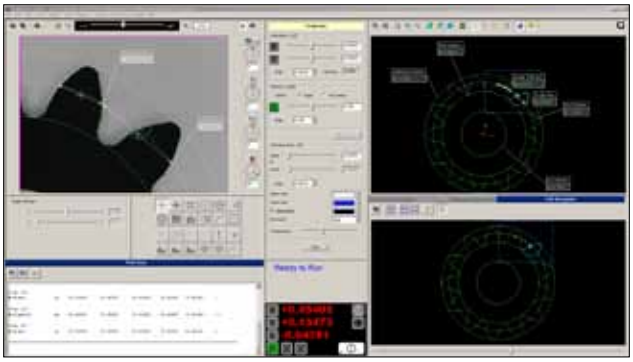
Simply double-click a part feature in the video window and FeatureFinder will automatically measure it, eliminating outliers automatically. This unique tool eliminates tedious steps when measuring parts.



Select The Screen Layout That Fits Your Needs

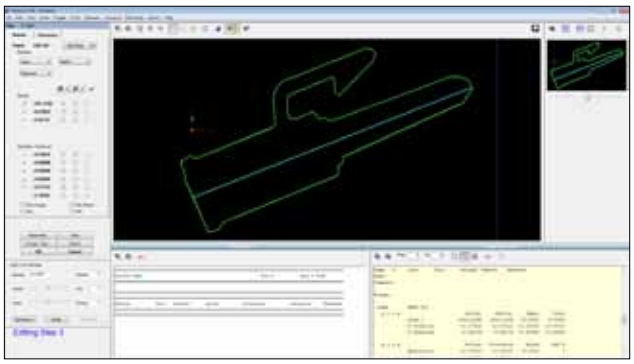


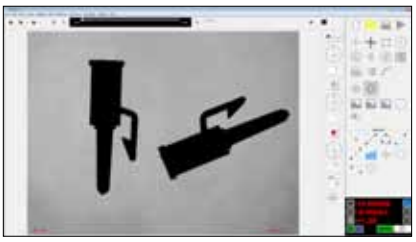
Classic Layout



Full Feature Layout

Dual Monitor Layout - Ideal for CAD-based programming and analysis





Comparator Screen Layout - Optimized for Video Contour Projectors (Touch Screen Compatible)

Exclusive Measurement Features

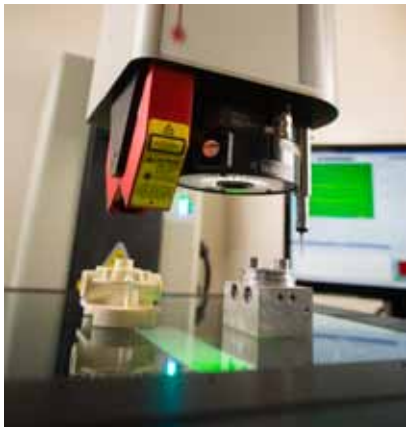
- Full field of view image processing provides high speed part measurement
- Reverse Engineering - Output measured results in .dxf format
- CAD Overlay - Projects CAD drawing along with tolerance bands on the live image
- CAD Navigator - Optional CAD Navigator allows effortless part programming in the CAD model
- Mirror functionality - automatically creates routines to mirror-image parts
- Autofocus and measure in one step
- Assign feature names to appear as flyouts in the model window and in data reports
- Save, name and recall datum structures
- Name and save probe tips
- Construct points from math steps for unlimited geometry constructions
- Multiple languages support included

Optional Software

- MeasureFit® — fully automated fitting analysis with GD&T capability to handle multiple datums
- SmartReport® Powered by QC Calc™ Enterprise — fully automated Statistical Process Control (SPC)
- SmartProfile® — An innovative 3D GD&T fitting application
- SmartFeature® — Quickly launch measurement routines and define user login access levels

Advanced Features

Complete Multisensor Capabilities



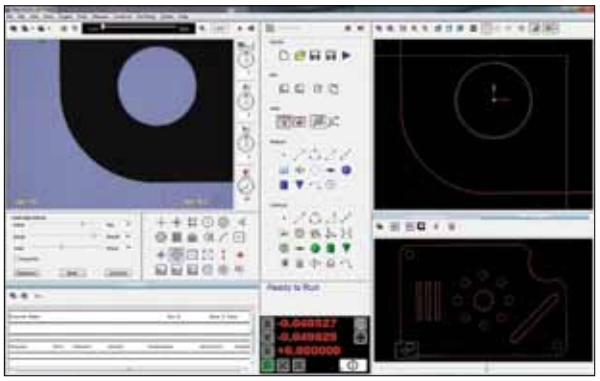
Measure-X® supports touch probes with Auto Path, QVI® lasers and rotary indexers, for complete multisensor measurements.

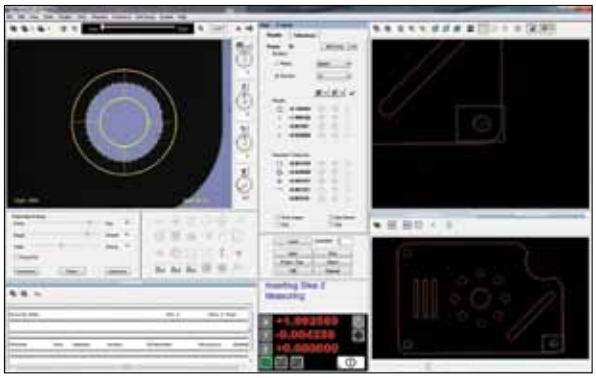
Touch probe provides tactile measurement for geometries that are inaccessible to optics.

Available lasers accurately gather surface data to provide height and depth, contour, flatness, and profile measurements.

Rotary indexers can rotate parts to bring features into position to be measured by appropriate sensors.

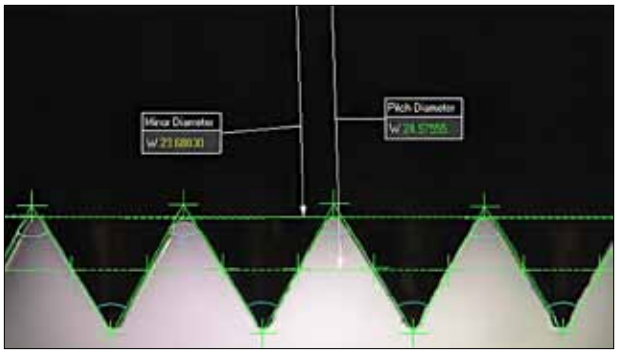
Click and Drive Navigation





Measure-X with the CAD Navigator option features Click & Drive navigation. Simply click a feature in the CAD Navigator window to position it in the field of view for easy measurement. With Click & Drive, all routine operations can be done with the mouse, or by tapping the optional touchscreen.

Advanced Line Constructions



Measure-X allows for four different types of line constructions:

Line - construct between two features or points.

Tangent - For non-intersecting circles. Create easy tangent lines between circles for simple measurement.

Perpendicular - Create a line perpendicular to a line or a circle.

Bisector - bisect an intersection, dividing two equal angles. Report measured angle or supplemental angle.

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A Division of Quality Vision International

QVI

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