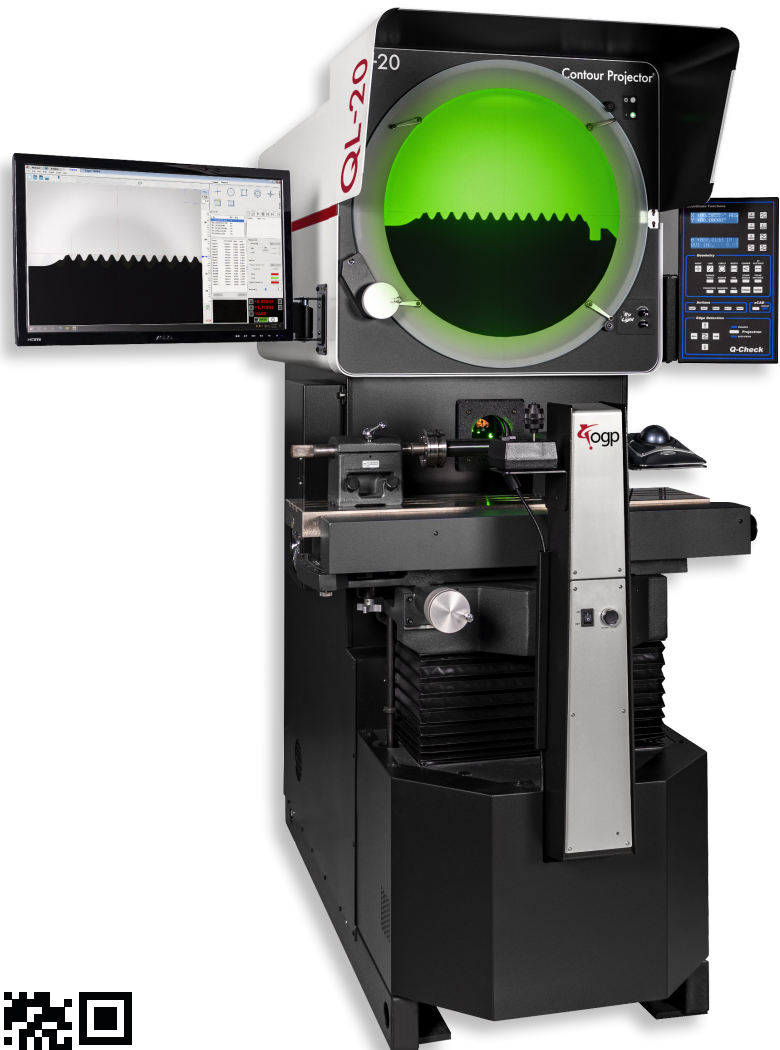# VidiProbe

Video Measurement and Automation Package

VidiProbe transforms the traditional contour projector into a low-cost entry, fully automatic video inspection system using Measure-X® Software. The internally mounted megapixel camera, protected from harsh environments, is positioned to view the image formed by the comparator optics, allowing the image to be digitally analyzed and measured instantly. VidiProbe offers:
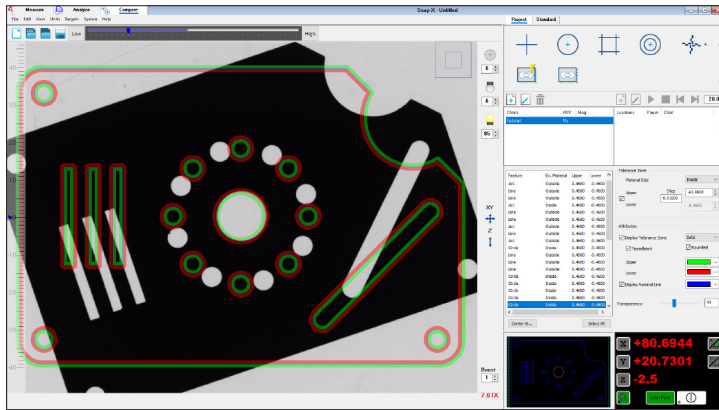
- **Versatility –**
  VidiProbe can be used either as a shop-hardened, traditional comparator, or as an automatic CNC vision system, providing two systems in one – it is as easy as switching lenses.

- **Automatic and Accurate Measurements –**
  VidiProbe has no manual reliance on operator skill, avoiding operator errors. Automated measurements are repeatable from operator to operator. VidiProbe excels at measuring features that require high magnification in order to achieve accurate measurements.

- **Large Field of View (LFOV) –**
  VidiProbe enables LFOV measurements by capturing multiple points at once with automatic edge detection tools. Digital zoom allows instant measurement of small features that would be too small to measure without changing magnification lenses.

QL-20™ Contour Projector® with optional VidiProbe automation camera and software shown. VidiProbe is available on Focus™, QL-20, or QL-30™ model comparators with Q-Check® DRO.
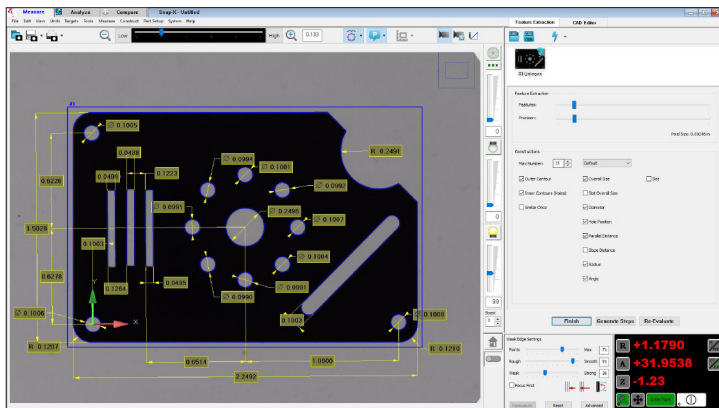
Measure-X

Compare

The most basic measurement. No variable data, a widely accepted method of quickly assessing part acceptability.

The Compare Tab is selected, a CAD file is imported, and the operator is able to fit the part image to the CAD overlay on the monitor.

This allows the user the ability to use effective surface illumination, easy to maintain CAD overlays, and the option to change mag with the same overlay – all within a smaller footprint versus a traditional optical comparator.
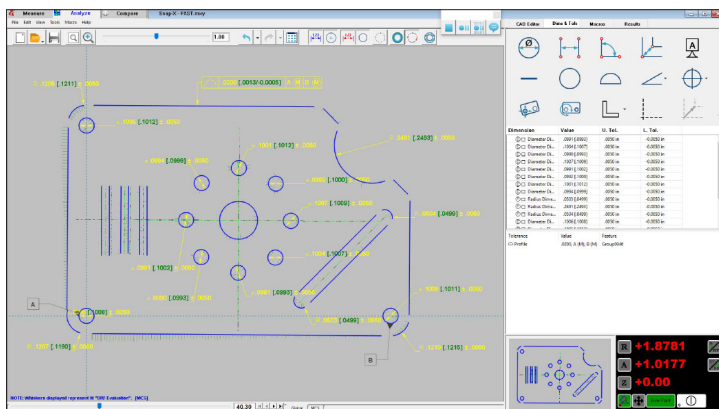

Measure

With the Measure Tab selected, various measurement tasks can be performed, depending on the mode selected:

Program Mode: Measurements can be taken, and programs can be created. An operator creates a program as usual with a video measurement system, or from a CAD file of the part.

Run Mode: A pre-set selection of a desired routines is available for the operator to select.

Analyze (optional)

Users have the ability to address more complex GD&T requirements such as profile, true position of features when datum features of size allow mobility on the feature and the datums.

The display and reporting capabilities with Analyze provide both graphical, color coded whiskers of deviation, and GD&T callouts on the part CAD.

Analyze works seamlessly with Measure-X Measure functions.