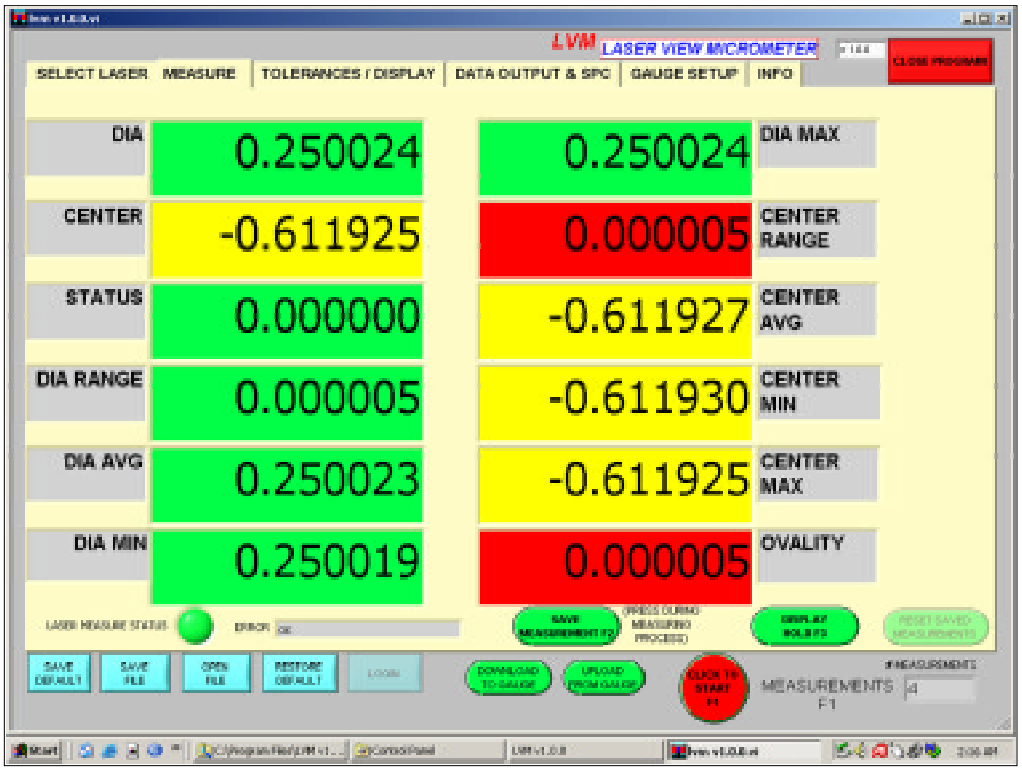
Laser View Micrometer Software



Pictured above is the display screen. The top left dimension (inches) is the diameter, green background is for tolerance. Yellow indicates the control limit while red is for out of tolerance. A number of other parameters are illustrated along with the corresponding tolerance indications.

General Description

The Laser View Micrometer (LVM) Software package is designed for use with any of our laser micrometers (single and dual axis) for use in a bench top environment.

The LVM software enables the user to make a wide variety of measurements on a part. For example the operator can make a diameter measurement, A TIR measurement, get the maximum or minimum of a range of parts or multiple measurements along the length of a part. Ovality can also be determined. A new feature available with the LVM software is determining the centering of the part. The operator can likewise get the average centering, the minimum and maximum of the centering.

The user can choose the number of measurements to display on the screen. It has simple menus which allow the user to store any number of parts by job number, product type, etc.. It is easy to search to find a particular part as well. When a product or job is selected, the associated measurement settings and tolerance alarms are automatically down loaded to the laser gauge.

These data can be archived, and written to a character delimited text file which can be opened in Excel™or imported to any statistical software package for seamless operation.

In summary, the LVM software enables complete control of the laser micrometer while providing the user with flexibility to setup the desired measurements, reporting and comprehensive statistical analysis.

Features

- Displays up to twelve measurements simultaneously in large font
- Large red and green pass / fail indicators for each measurement
- Inch / millimeter selection
- Store and download gauge settings by customer and / or part number in an infinite library on a PC for recall
- Easy to use point and click graphical interface

Benefits

- Cost effective data storage and retrieval system
- Remastering is not required for different size parts
- Patented self calibration guarantees accuracy
- Can be used with any of our XLS series laser gauges

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The laser micrometer monitor software is for use with a standard PC running Windows. An Ethernet port is required on the PC.

The remote gauge programming enables the user to set a variety of parameters, including; the measurement time, number of laser scans, tolerances, go / no go settings, etc.. These settings can be recalled for use with a batch of particular parts for fast and easy setup. The resulting measurement data can automatically be dumped into a text file which can be read by Excel.

The text file capability enables the LVM software to be integrated into a variety of standard SPC packages on the market today, such as SPC packages, WinSPC, Infinity QC, Lighthouse etc..

Display Screen

The display screen shown on page one enables the user to see up to twelve measurements at the same time. The entire PC monitor display is filled with this screen. Pictured below is a screen with just four measurements. Diameter, diameter range, average diameter, min and max diameters.

PC Requirments; Win 2000 or XP P4, at least 500Mb ram recomended, 1024 x 768 color display, 1 GB available hard disk space. Ethernet port, 10MBPS.

Optional; MS Excel for office 2000, Prolink QCCalc.

You can select a variety of features, including:

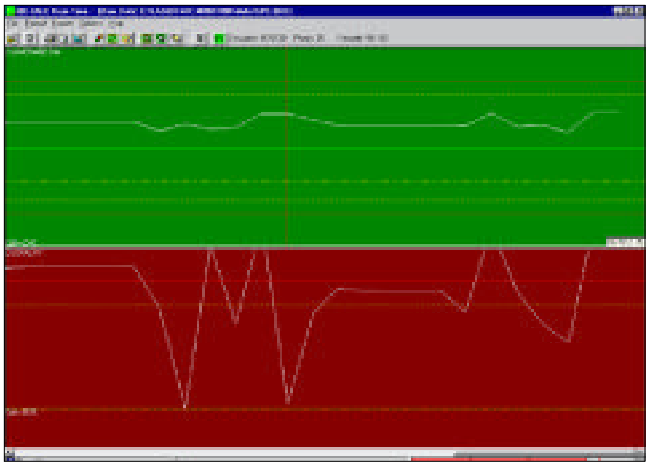
- The desired measurement(s) from the laser gauge, such as dia, center, gauge status, dia range, avg dia, min or max dia, center range, min, max and avg centering, and ovality
- Displays the desired measurement(s)
- Gauge status (number of measurements, etc.)
- Upper and lower tolerance settings
- Setting a nominal dimension
- Continuous or single shot measurement

Note:

Centering refers to where the part is in the laser beam. For a single axis gauge it is only vertical while in a dual axis it is horizontal and vertical.

Statistics

The chart below represents data taken with the ILS 35xy dual axis laser micrometer using the LVM software linked to QC-Calc by Prolink Software. It is a seamless link. Measurements along with related specification limits are sent to QC-Calc in real time. QC-Calc can plot multiple features simultaneously and set statistical limits.



The closer you look, the better we measure!

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