

Introducing...
100% Veteran Owned



Instrument Calibration Solutions

www.instrumentcs.com

“Providing real solutions for your calibration needs...”

Optical/Video Measuring System Calibration...

When choosing a calibration provider for your Optical Comparators, Microscopes, and Video Measuring Machines, there are some things to consider. Cost is usually the first thing on the list. ICS understands this and our pricing reflects. We also understand what it takes to get accuracy, clarity, and long-term performance out of your vision equipment.

Expect the unexpected when ICS calibrates your Optical Comparator, Microscope, and Video Measuring Machine.

We start with a thorough cleaning and preventive maintenance:

- Clean and/or degrease the outside of the machine and peripheral devices using a mild detergent.
 - Remove burrs and high spots from the table surface and ways.
 - Clean & lubricate accessible lead-screws and bearing ways.
 - Inspect and clean all optics including lenses, mirrors, stage glass, and monitor/chart glass using lens cleaner and lint free lens tissues.
- Not just the ones on the outside of the machine!**
- Inspect and align automatic drive systems.
 - Align and collimate the light source parallel to the optics.
 - Overall system check. Weather driven by micrometer heads, digital readout, or a computer, most potential problems will surface during our thorough calibration.

We finish with a world-class calibration that includes before and after adjustment data:

- ✚ Comparator calibration includes:
 - Focus squareness parallel to optical axis.
 - Table squareness perpendicular to optical axis.
 - Perpendicularity of X to Y-axis.
 - Edge detection accuracy to centerline for systems equipped with behind the mirror edge systems.
 - Magnification & distortion accuracy for all lenses equipped with the machine.
 - Chart angular rotation in 90 and 180 degrees.
 - Chart holds centerline in 180 degrees.
 - X & Y axis lead accuracy, every inch for the entire length of travel.
- ✚ Video Measuring Machine calibration includes;
 - Table flatness to optical axis.
 - Focus squareness to optical axis.
 - Par-focalization of zoom lens for auto focus equipped machines.
 - Camera rotational alignment.
 - Par-centrality of zoom lens.
 - Field of View calibration
 - Zoom lens position calibration.
 - Edge detection accuracy.
 - X / Y-axis stage squareness.
 - Z-axis linear calibration.
 - X / Y-axis linear or non-linear grid data up to 24 intersections.
 - Laser & Touch-Probe to optics re-alignment.
 - Software configuration backup.
- ✚ Measuring microscope calibration includes;
 - Table flatness to optical axis.
 - Focus squareness to optical axis.
 - X / Y-axis stage squareness.
 - Reticle scale magnification accuracy.
 - Cross hair rotation & centerline.
 - X & Y axis lead accuracy, every inch for the entire length of travel

Please call, fax, or email us your equipment list for calibration pricing.

INSTRUMENT CALIBRATION SOLUTIONS

413 Hopewell Ave
724-846-0136 phone

Aliquippa, PA 15001
724-846-0137 fax