

# REGAL METROLOGY, INC.

## MEASUREMENT SOLUTIONS

Who provides your Micro-Vu Calibration service?  
Are you getting a full calibration?

A video or optical system is a 3 axis measurement system and must be calibrated accordingly. Even optical comparators have a Z axis that must be “square” to the XY measurement plane.

A full calibration of a two axis Video or Optical comparator must include:

- Linear of X and Y axis through the full travel of the device
- Squareness of X to Y axis
- Squareness of Z axis to X and Y plane
- Repeatability
- Magnification (optical only)
- Alignment of optics
- Alignment of light sources
- Alignment of drive assemblies



A full calibration of a 3 axis Video or Vision system must include:

- Linear of X ,Y, and Z axis through the full travel of the device
- Squareness of X to Y axis
- Squareness of Z axis to X and Y plane
- Repeatability
- Alignment of optics and camera
- Alignment of light sources
- Alignment of drive assemblies



All of the measured values must also be shown “As Found” and “As Left” if adjustments are required. This in effect requires any adjusted parameters to be verified twice taking additional time.

Regal Metrology’s service technicians are Micro-Vu factory certified, attending regularly scheduled “at the factory” seminars and training courses. All procedures used meet or exceed OEM requirements and are **ISO17025** accredited .



All Micro-Vu systems are always calibrated through the full range of travel including the largest Matrix or Excel series machines. Regal can also enable the resident non-linear error correction found on all systems equipped with InSpec Metrology Software. The non-linear error correction can only be utilized in combination with the MicroVu Grid certification hardware.

Out of date software? Machines equipped with InSpec Metrology Software version 2.XX or higher will be updated to the latest released version of InSpec at no charge. Our service technicians can also update all manual Q-16 and DOS equipped machines to InSpec Metrology Software for under \$2,500.00 plus calibration.

For additional information, please call Brian at 502-773-8136.

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