

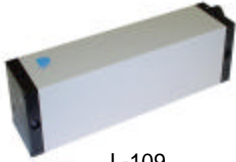
MCV-500 Machine Calibration System

A compact laser system for the calibration and compensation of CNC machine tools, coordinate measuring machines (CMMs), and other precision measuring machines and stages.



P-108D

This compact laser system is designed for easy setup and operation. The basic system, including Windows software, automatic temperature and pressure compensation, and accessories are packaged at an extremely affordable price. The system is very compact and fits in one small carrying case.

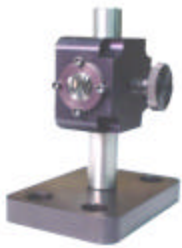


L-109

The Windows software, running on any notebook computer, is user friendly and is designed to collect data automatically and to analyze data in accordance with a variety of industry standards, such as NMTBA, VDI, ISO and ASME B5.54. The laser system is calibrated and traceable to NIST.

Major features and benefits

- Compact and light-weight
- Rugged and long life
- Easy to setup and operate
- Automatic data collection
- Automatic comp file generation
- NIST traceable accuracy
- No tripod and no interferometer
- RS-232 interface
- Automatic environmental compensation
- Support NMTBA, VDI, ISO and ASME B5.54



R-102



IATCP



W-500



LD-03

Major Applications

- Calibrate and compensate CNC machine tools, CMMs, leadscrews, precision measuring machine and DROs
- Quality control and maintenance
- Ultra precision positioning
- One-day quick check of machine tools



LD-37



LD-14A

Configuration:

Single aperture laser head,	L-109
Processor module	P-108D
Half-inch diameter retro-reflector	R-102
Metrology/analysis program	W-500
Automatic temperature compensation	IATCP
90 degree beam bender	LD-37
Magnetic base	LD-03
Adapter platform	LD-14A
12 ft cable set	LD-21L
Carrying case	LD-20D
Notebook computer (not included)	LTC



LD-21L



LD-20D



LTC

Capability:

Laser stability	0.1 ppm
System accuracy	1 ppm
Resolution	1 microinch (0.01 um)
Range	50 ft (15 m)
Slew Rate	144 ips (3.6 m/s)

Environment and power requirement

Power	90 to 230 VAC, 50 to 60 Hz
Temperature	60 to 90 F (15 to 32 C)
Altitude	0-10,000 ft (0-3000 m)
Humidity	0-95% non-condensing