ACU-GAGE

High Precision Line

The HPL combines fast, precision mechanics, the Quadra-Chek 4000 metrology software, and sophisticated image processing to provide automatic inspection solutions for the most challenging, non-contact dimensional measurement applications.

The HPL is designed for the high volume customer that requires accurate, repeatable results, rapid throughput and flexible, comprehensive documentation & reporting.

Programming tools such as point filtration and path optimization enable operators to execute programs for first article inspections. A step & repeat function accommodates multipart staging to monitor critical features for process capability.

Thanks to our user friendly software, factory training, and robust mechanical design, our customers experience a rapid learning curve. This translates into increased measurement accuracy and repeatability, improved documentation and higher inspection throughput.

8"x8"x4" HPL with QC-4000 and Z Axis, Auto Focus and Programmable Zoom



The HPL is particularly suited for measurement of production volume precision parts such as lead frames, interconnects, chip packaging, electronic components and plastic molded parts.

Standard Features:

- > 8" x 8" measuring envelope
- ➤ Quadra-Chek 4000 Windows TM-based metrology software
- > 7:1 zoom range (30X-210X mag. range)
- > .00002"/.0005mm resolution linear encoder
- Black & white video System
- Video edge detection
- > Black impala granite base & column
- Field of view measurement
- > Programmable profile & surface illumination
- CNC stage positioning
- Teach mode programming

Optional Equipment:

- > Auxiliary lenses & filters
- Z axis with auto focus
- > Programmable zoom
- SPC software

- > CAD interface for programming & reverse engineering
- Off-line programming & editing
- > Full geometric dimensioning & tolerancing
- > Custom report generation
- > Programmable data link for automatic data collection
- Non-linear error correction
- > Rack & pinion focus mechanism
- Image archiving
- > Workstation
- NIST traceability
- > Installation & training by factory personnel
 - Printer
 - > Video printer
- > NIST traceable glass grid

ACU-GAGE SYSTEMS

175 Ammon Drive Manchester, NH 03103 Tel: (800) 422-2283 (603) 622-2481 Fax: (603) 626-1277

Email: Acu-Gage@att.net

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Technical Data

Model	HPL082 HPL083
Measuring Range X-Axis Y-Axis Z-Axis	8" (203mm) 8" (203mm) 8" (203mm) 8" (203mm) - 4" (100mm)
Resolution* Image Sensor CNC Motor Control Illumination System Progammable Fiberoptic Ring Fluorescent Back-Lit Surface Programmable Light Control On Axis/Through Lens Lighting	0.00002" (0.0005mm) High-resolution CCD camera system Standard Standard Standard Standard Available
Video Edge Detection Black and White Color	Standard — Available —
Automatic Focus Programmable Zoom Workstation Monitor Magnification 1x Objective 2x Objective	- Standard - Available - Standard - 30x-230x - 60x-460x
Measuring Accuracy** Inches Millimeters	±0.0002" ±0.0002" 0.005mm 0.005mm
Drive Speed X-, Y-Axis Z-Axis	├─ 0.6"/sec (15mm/sec) ─ - 1"/sec (25mm/sec)
Dimensions (WxDxH) Weight	42"x72" 42"x72" 600lbs (272kg) 600lbs (272kg)
Maximum Workspace Loading Height (Standard) Loading Height (Optional) Loading Height (Optional) Loading Weight	— 4" (100mm)— — 6" (150mm)— — 8" (200mm)— —25lbs (12kg)—

^{*} Higher resolutions optional





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^{**} Accuracy specified is over the entire measuring range (corner to corner across the table)