

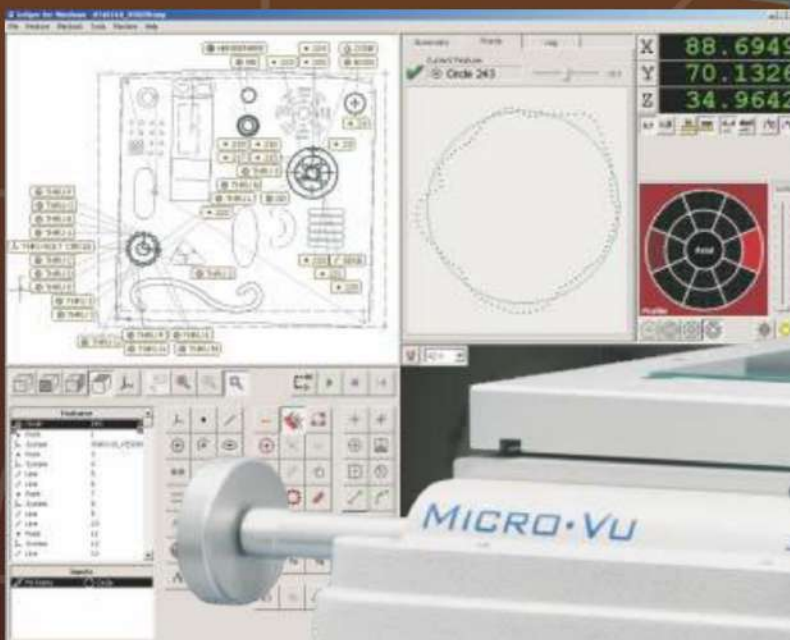
# SOL

# MANUAL VISION SYSTEM

The Sol Vision System implements new technologies to provide speed and accuracy on a reliable and affordable measuring machine. The Sol bridges the gap between manual and automated measurement systems.

A programmable 19.5x zoom (6.5x optical and 3x digital), non-linear compensation (optics and stage), advanced lighting, and part program compatibility make the Sol the most advanced machine in its class.

Micro-Vu's InSpec Metrology Software drives the Sol in addition to manual, vision, and multisensor systems. InSpec's point-and-click measuring and proprietary edge detection simplify demanding measurement applications.



# MICRO-VU

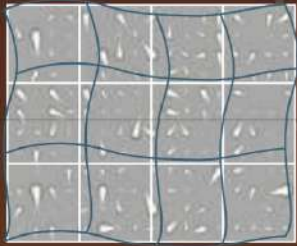
PRECISION MEASUREMENT SYSTEMS

# SOL

# MANUAL VISION SYSTEM

	Encoder Resolution	XY Accuracy	Z Accuracy	Measurement Capacity	Stage Capacity	Machine Dimensions	Machine Weight
<b>Sol 161</b>	1.0 $\mu$ m	2.8+L/150	2.8+L/100	160x160x160mm	10 kg	545x705x775mm	54kg
<b>Sol 311</b>	1.0 $\mu$ m	4.5+L/150	2.8+L/100	315x315x160mm	10 kg	827x1043x824mm	132kg
<b>Sol 312</b>	1.0 $\mu$ m	4.5+L/150	3.3+L/75	315x315x250mm	10 kg	827x1043x1019mm	159kg

Specifications subject to change without notice. Accuracy units are microns; length L units are millimeters.



### Non-Linear Compensation

InSpec measures and applies compensation for systematic variation and ensures the highest measuring accuracy for the machine. Non-linear calibration of the stage and optics is standard.

### Programable Zoom

The zoom lens is motorized. InSpec automatically drives the lens to the programmed zoom stops. Parts can be measured faster and more accurately.



### Machine

- Precision X, Y, and Z Linear Ways
- Manual X-Y-Z Fine and Fast Positioning
- Motorized, Programable Zoom Lens
- Cast Base and Mast
- Single USB Connection to Computer
- Calibrations Stored on Machine

### Optics and Illumination

- Digital, High Resolution Color Camera
- 19.5x Zoom Range, 6.5:1 Optical, 3:1 Digital
- 20-360x or 40-720x Viewed on Monitor
- Fast Servo Drive Magnification Changes
- Instant Digital Magnification Changes

### Advanced Lighting

- Intuitive Graphic Interface
- Full Control to Enhance Edges
- Multi-Ring, Multi-Sector Ringlights
- Long Life LEDs (approx 10,000 hrs)
- InSpec Includes Lights Calibration
- LED Lighting - Surface, Profile and Axial
- Lighting Angles from 25 to 90 Degrees



### Software

- InSpec Metrology Software
- Transfer Programs to Automated Systems
- Dynamic Sub-Pixel Image Processing
- Point Edge Detection Tools
- Feature Edge Detection Tools
- Video Overlays
- On-Screen Scale
- Feature Constructions
- Tool Property Editing
- Lights, Zoom, and Zone Editing
- Instant Tool Editing on Stored Images
- Advanced GD&T Tolerances
- Automated Export Settings
- Automatic Report Construction
- Feature Summary Display
- Data Points Display (Whisker Charts)
- Feature Status Log Display
- Fixed Windows Configuration
- User Configuration and Password Protection
- Image Capture and Export to JPG or BMP

### Part Program Compatibility

Programs can be transferred between Sol vision systems and automated systems.



## Micro-Vu

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