

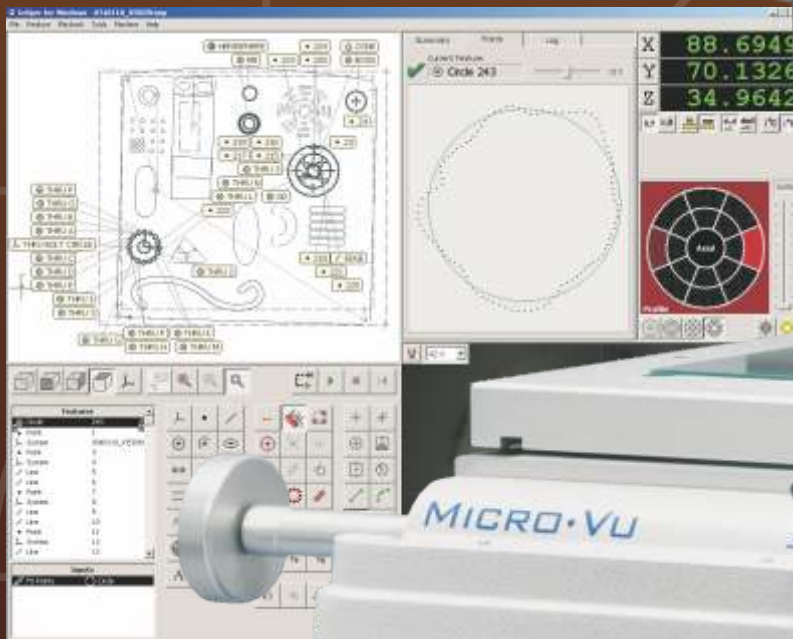
# SOL

# 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 CORPORATION

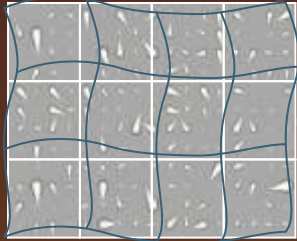
PRECISION MEASUREMENT SYSTEMS

# 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.

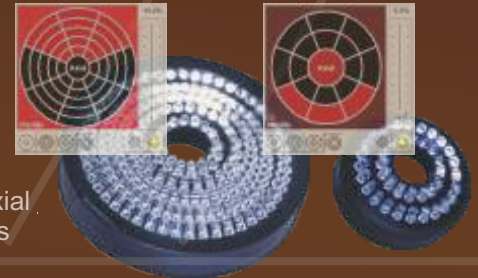
**Programmable Zoom**  
The zoom lens is motorized. InSpec automatically drives the lens to the programmed zoom stops. Parts can be measured faster and more accurately.



**Machine**  
Precision X, Y, and Z Linear Ways  
Manual X-Y-Z Fine and Fast Positioning  
Motorized, Programmable 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 Corporation

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## REGAL METROLOGY, INC.

MEASUREMENT SOLUTIONS

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