

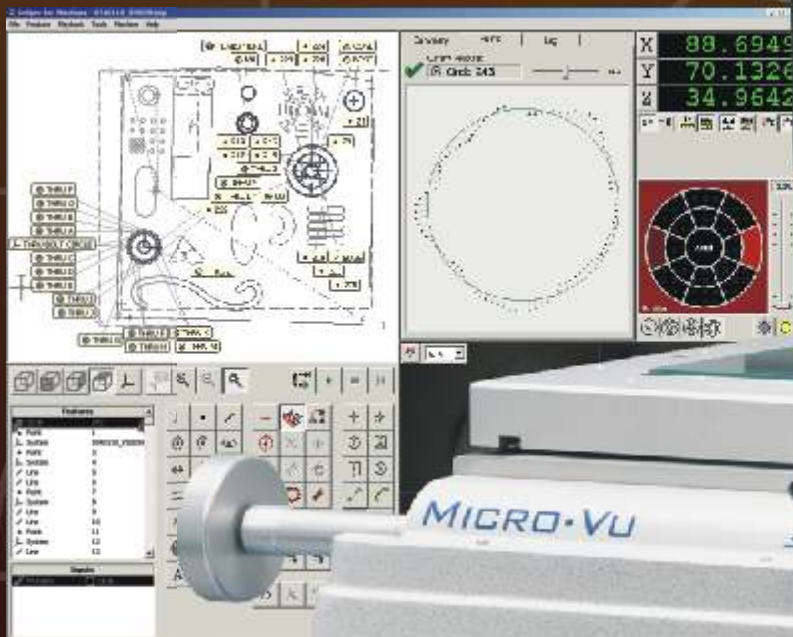
SOL

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.



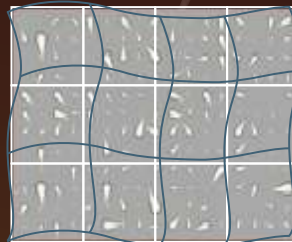
MICRO-VU CORPORATION

PRECISION MEASUREMENT SYSTEMS

Model	Sol 161
Measurement Capacity	160x160x160mm (6.2"x6.2"x6.2") 10kg (22lbs)
Machine Dimensions	545x705x775mm (21.5"x27.5"x30.5") 55kg (120lbs)
Scale Resolution	1.0 μ m
XY Accuracy*, E₂	2.8+L/150
Z Accuracy*, E₁	2.8+L/100
Zoom Range (Optical , Digital)	19.5:1 (6.5:1, 3:1)
On-Screen Zoom Range	20x - 360x to 40x - 720x

* Specifications subject to change without notice. Focus accuracy depends on the part surface. On-Screen zoom range depends on monitor size and settings.

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.



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.

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
LED Lighting - Surface, Profile and Axial
Multi-Ring, Multi-Sector Ringlights
19.5x Zoom Range, 6.5:1 Optical, 3:1 Digital
20-360x or 40-720x Viewed on Monitor

Advanced Lighting

The intuitive graphic interface controls long-life white LEDs. Enhance edges with full, ring, sector, and segment selections. InSpec includes automated light calibrations.



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.



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