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
7909 Conde Lane Windsor, CA 95492 USA
Phone 707 838 6272  Fax 707 838 3985
www.microvu.com

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
- 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

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

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

<table>
<thead>
<tr>
<th></th>
<th>Encoder Resolution</th>
<th>XY Accuracy</th>
<th>Z Accuracy</th>
<th>Measurement Capacity</th>
<th>Stage Capacity</th>
<th>Machine Dimensions</th>
<th>Machine Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sol 161</td>
<td>1.0 µm</td>
<td>2.8+L/150</td>
<td>2.8+L/100</td>
<td>160x160x160mm</td>
<td>10 kg</td>
<td>545x705x775mm</td>
<td>54kg</td>
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<tr>
<td>Sol 311</td>
<td>1.0 µm</td>
<td>4.5+L/150</td>
<td>2.8+L/100</td>
<td>315x315x160mm</td>
<td>10 kg</td>
<td>827x1043x824mm</td>
<td>132kg</td>
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<tr>
<td>Sol 312</td>
<td>1.0 µm</td>
<td>4.5+L/150</td>
<td>3.3+L/75</td>
<td>315x315x250mm</td>
<td>10 kg</td>
<td>827x1043x1019mm</td>
<td>159kg</td>
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</tbody>
</table>

Part Program Compatibility
Programs can be transferred between Sol vision systems and automated systems.