LaserVision SP3D

The LaserVision SP3D combines laser measurement accuracy with Automatic Data Collection (ADC) for real-time control of SMT stencil printing. With its Windows® XP interface, the SP3D is easy to learn and use, making it an exceptional value for the SMT manufacturer concerned with improving printing and production yields.

Automated Solder Paste Inspection

(Shown with optional X-Y manual stage)

System Features

- **Accurate & Repeatable Measurements Regardless of Substrate Color and Reflectivity**
- **Automatic Calculation of Height, Area, Width and Volume Measurements**
- **On Board and Fully Integrated SPC Run Charts, Histogram, and Fully Exportable Data Accumulation with Customizable Reports.**
- **One-year, End-user Warranty Including Technical Support.**

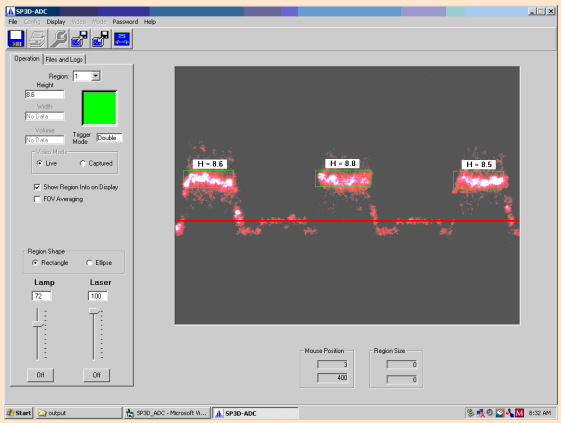
System Includes

- **Anti-Static Work Surface**
- **2.5+ GHz CPU and Flat Panel Monitor**
- **High Resolution Color CMOS Camera**
- **Hardware/software reference manuals**

Options

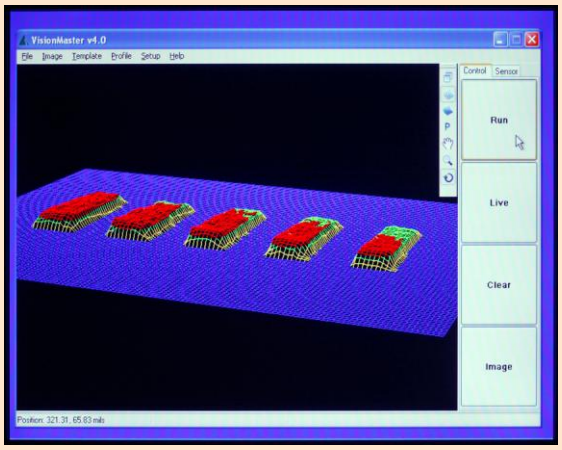
- **Siemens® Criterion SPC Software (LAN Ready)**
- **NIST Traceable Standard**
- **Extended Warranty**
- **Manual X-Y Stage**
- **Laser Scanning Module**

Intuitive User Interface



Automated Measurements

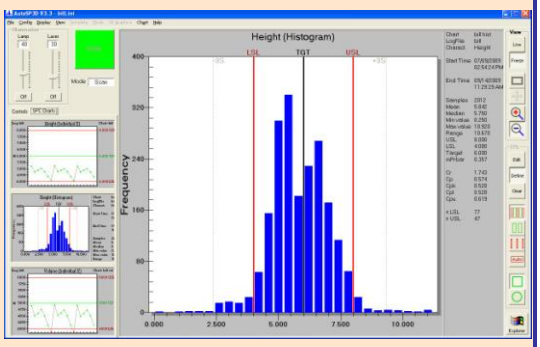
To obtain automated measurements on the SP3D, position the circuit board under the system's laser measurement sensor to the desired location. Simply click the run button, to automatically calculate the solder paste height, width, area and volume measurements.



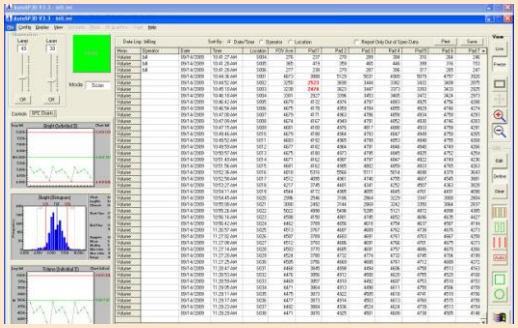
Excellent 3D graphics

The SP3D's optional laser scanning feature provides 3D profiling capabilities along with added accuracy and repeatability due to increased data acquisition.

Onboard SPC Features



Real Time SPC Charts



Customized Data Reports

The on board SPC software is a powerful tool that helps operators control the critical stencil printing process. Data collected by the SP3D is instantly charted by the integrated SPC Software. Calculations crucial to understanding printing performance are managed as follows:

- **Variable and Histogram Charting**
- **User defined LSL, Target and USL**
- **Min., max. and median values**
- **Cr, Cp, Cpk and lower Z values**

For More Information:

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- Fax: USA 763-479-6206
- E-mail: info@ascinternational.com
- Web: www.ascinternational.com
- Toll Free: 1-888-478-2912 (USA Only)

System Specifications

- **Maximum Object Thickness** 3.8 cm (1.5")
- **Standard work Surface (W*L)** 61 cm x 61 cm (24" x 24")
- **Throat depth** (laser to rear support) 41 cm (16")
- **System Computer** 2.5+ GHz – 64+ MB RAM
- **Electrical Requirements** 100-240 VAC, 50-60 Hz, 2 Amps
- **Ambient Operating Temperature** +5° to +38° C (+40 to 100 F)
- **Ambient Operating Humidity** <90% non-condensing
- **System Weight*** (crated) 80 Kg (175 lbs)
- **System Weight*** (un-crated) 36 Kg (80 lbs)

*not including system pc and monitor

Sensor Specifications

- **Laser Type** 1 mW, 670 nm laser diode
- **Resolution** 2.54 µm (0.10mil)
- **Integral Video Camera** CMOS Color Camera
- **Field of View** (Standard View) 4.7 mm x 3.6 mm
  186 mils x 142 mils

  (Zoom View) 2.4 mm x 1.8 mm
  96 mils x 72 mils

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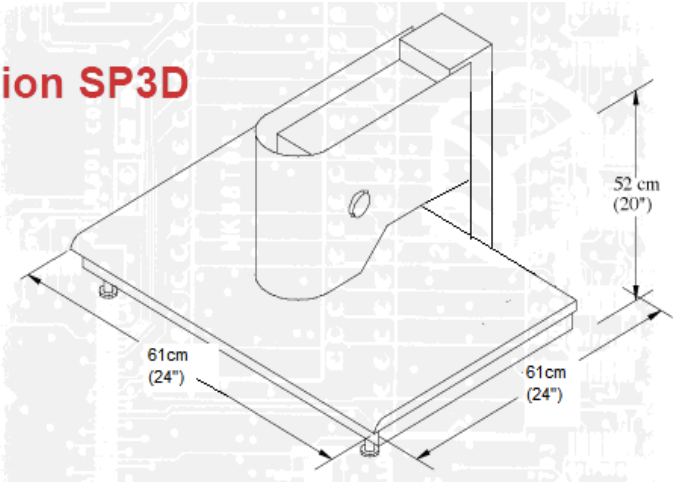

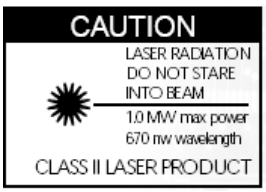

Safety Considerations

The SP3D system complies with all applicable laws for the manufacture of laser devices. This system is classified as a Class II laser device by the Center for Devices and Radiological Health (CDRH). This classification requires two safety precautions: Do not stare directly into the laser source and do not point the laser at anyone else's eye.

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