



PRODUCT AND SPECIFICATION

VisionPro HSi

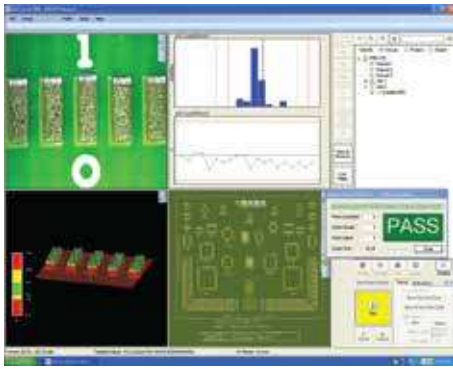
3D SOLDER PASTE INSPECTION



VisionPro HSi continues ASC International's quest to providing the next generation of advanced 3D SPI tools for the ever increasing demands within the surface mount technology industry. The **HSi** takes stand alone SPI to a new level with its unmatched high resolution, high speed 3D sensor technology. Intuitive user interface, 5 minute Gerber/CAD import programming and integrated SPC analytics makes the **HSi** an exceptional value for the electronics manufacturer concerned with improving production yields hindered by poor overall quality of their print process.

System Features: 100% High Speed Inspection • Automatic Measurement of Height, Area, Volume and Standard Deviation • X-Y Displacement of Paste Registration • Realistic 3D Rendering of Paste Deposits for Quality Defect

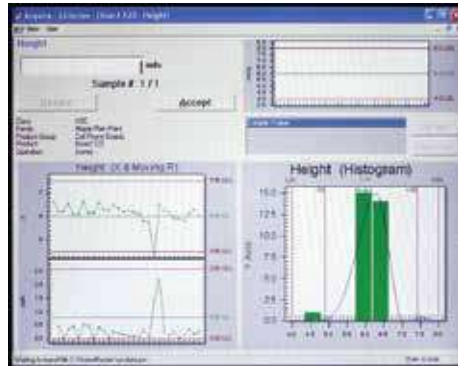
Automated Measurements



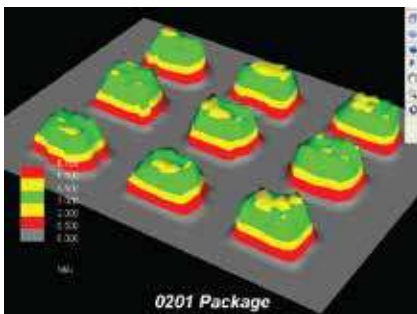
With ASC International's new ASCan Ultra measurement software, creating a fully automated inspection routine can now be completed in less than 10 minutes. In Run mode, the user loads the program, confirms fiducial alignment and the ASCan Ultra software automatically measures the Gerber imported programmed locations with a final "PASS" or "FAIL" message. A defect error review mode allows users to verify "Failed" locations and attach corrective action items for traceability.

Advanced Statistical Analysis

VisionPro **HSI** ASCan Ultra measurement software includes on-board SPC analytics, a powerful tool to help operators control important parameters of the stencil printing process. Data collected by the system for each desired characteristic is calculated and charted in real-time. User-defined LSL, Target and USL • X-bar / R and histogram charting • Min / Max/ Median Values • Cp/Cpk /Cr and Lower Z values are all part of the advanced statistical analysis software.



True 3D Color - Photo Realistic Profiling



The **HSI**, collects photo realistic 3D color profiles for fast and accurate paste analysis. Operators may use these profiles to help them determine the most accurate corrective actions needed to effectively resolve to the root cause of print process related defects.

System includes:

- 350mm x 450mm (14" x 18") High Speed Positioning System • PSI 1000 Sensor
- Intel I7 CPU - Windows 7+ OS • Integrated SPC with Customer User Defined Reports • Gerber / CAD Programming • Simple to Use Quad Mode Interface

Options:

- NIST Calibration Standard • Extended PCB up to 560mm x 660mm (22" x 26")

MECHANICAL SPECIFICATIONS

VisionPro HSI

General System Specifications

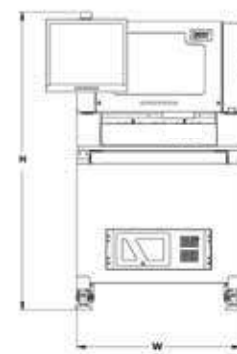
Maximum Object Thickness	5.1 cm (2.0 inches)
Standard PCB Size	350mm x 450mm (14" x 18")
Large PCB Size System	560mm x 660mm (22" x 26")
PC Controller Electrical Requirements	Windows 7+ OS
Ambient Operating Temperature	100-240 VAC, 50-60 Hz, 2 Amps
Ambient Operating Humidity System	15° - 28° C (60° - 82° F)
Weight* (crated)	<90°W non-condensing
System Weight (un-crated)	275 Kg (600 lbs)
Measurement Characteristics	305 Kg (673 lbs)
SPC Charting/Data Reports:	Height, Area, Volume, X-Y Registration
	Realistic 3D Shape Defect Review
	Fully Integrated Real-Time SPC
	Custom User Defined Reports

Sensor Specifications

Sensor Technology	Phase Shift Interferometry (PSI)
Measurement Range	429µm (16.9 mils)
Integral Video Camera	High Resolution Color CCD Camera
Field of View (FOV)	24mm x 26mm
Illumination	LED-based white light

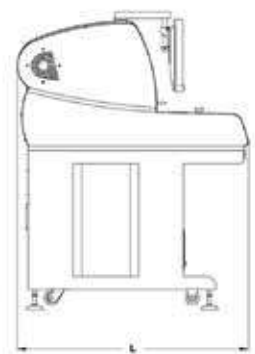
Sensor Specifications

Inspection Speed	.33 Sec./FOV
Height Accuracy	1µm (0.00004")
Gauge R&R	<<10% (+/- 40% Tolerance)
Z Resolution	1.78 µm (.00007")
Lateral Resolution (X-Y)	8µm (.003")
Minimum Paste Deposit	51µm (.002")



Dimensions

H: 108cm (42.5") W: 76cm (29.9") L: 138cm (54.3")



UL CE

VisionPro - Light Years Ahead

For More Information:

ASC International
830 Tower Drive
Medina, MN 55340 U.S.A.

Toll Free: 1-888-478-2912 (USA ONLY)
Tel: USA 763-479-6210
Fax USA 763-479-6206

E-mail: info@ascinternational.com
Web: www.ascinternational.com
www.solderpasteinspection.com

