



The Next Generation 3D In-line Solder Paste Inspection System

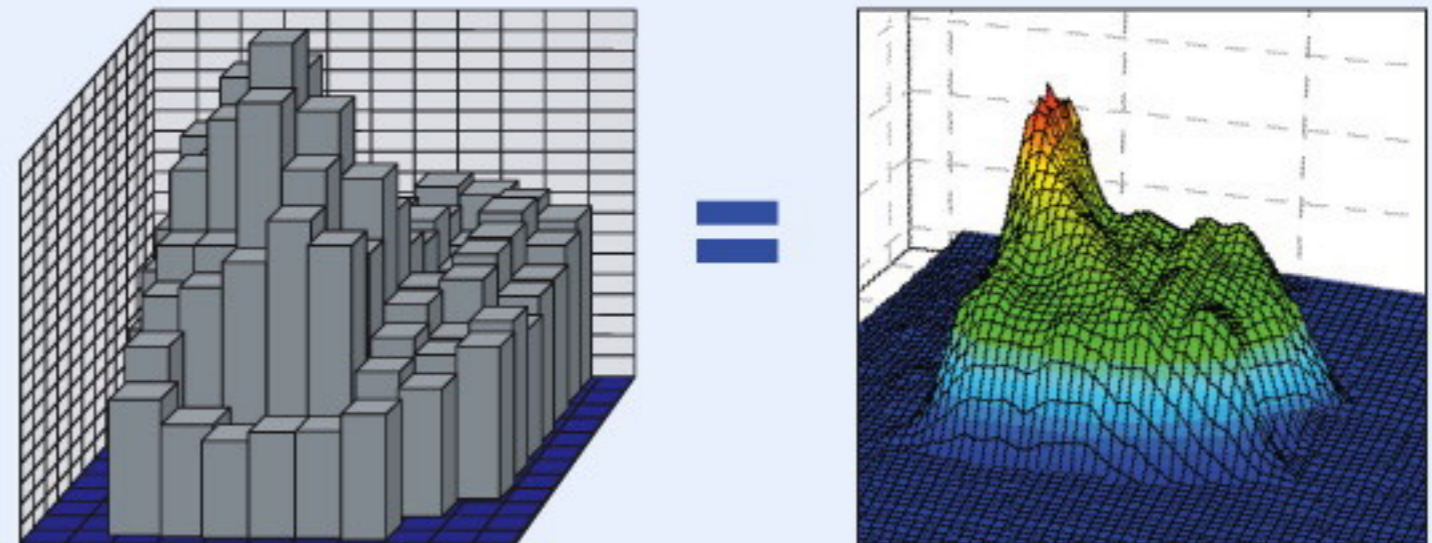
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True 3D Volume Measurement

- ▷ Koh Young's patented Shadow-Free 3D measures true solder paste volume
- ▷ The only way to guarantee correct solder joint volume following IPC 610 requirements

Measurement Capability

Paste defects detection including insufficient, excessive, shape deformity, missing paste, paste displacement, smear, slump, bridging



Industry Leading High Speed 3D Measurement

Keeping pace with high speed SMT lines, Koh Young's 40cm²/sec inspection speed helps maximizing productivity and ensures no compromise is made between speed and accurate 100% 3D measurement capability.

Trusted Measurement Performance for Process Optimization

- ▷ <<10% GR&R on 01005 deposits
- ▷ Volume repeatability < ±1% at 3σ (on KY calibration target)
- ▷ Average volume repeatability < ±3% at 3σ (on a product)
- ▷ Height Accuracy < 2μm (on KY calibration target)

Market Leading Ease-of-Use

- ▷ Less than 10 min. programming for a complete inspection file
- ▷ No fine tuning or inspection parameter setting necessary

Undisputed Best Process Optimization Tool

Accurate process feedback is enabled through precise measurement data and comprehensive statistical analysis tools.



>> SPECIFICATIONS

Metrology Capability

XY Resolution
Z Resolution

Inspection speed

10 μ m

15 μ m

20 μ m

Load / Unload / Fiducial Detection

Max. Paste Height

Max. PCB Warp

Min. distance between pads

Min. Paste Size

10 μ m

15 μ m

20 μ m

PCB Size

Clearance

Conveyor height

Machine size

OS

Measurement principle

Statistical Analysis Tool

Volume, Area, Height, Displacement, Bridging, Shape deformity

10, 15, 20 μ m (Factory setting)
0.37 μ m

No Shadow Mode

9.7 cm^2 /sec

23.4 cm^2 /sec

41.1 cm^2 /sec

5 ~ 6 sec

400 μ m

\pm 5mm

100 μ m (on 150 μ m solder paste height)

Circle	Rectangle
100 μ m	80 μ m
150 μ m	120 μ m
200 μ m	150 μ m

Max. PCB Size	PCB Thickness	Max. PCB Weight
510 x 510mm	0.4 ~ 5.0mm	2kg

Top 10mm Bottom 25mm

940mm \pm 50mm

830mm \pm 40mm (Optional)

Dimension (W x D x H)	Weight
1000 x 1230 x 1560mm	600kg

Microsoft Windows XP

3D / PSMI

SPC Plus

* Above specifications are subject to change without notice.

>> OPTIONS

Zooming Head (10~20 μ m)

In-line Barcode Reader (1D / 2D)

Offline Programming Station

HDD Mirroring

Flexible Dual Lane

Camera Barcode Reader (1D / 2D)

Offline SPC Station

UPS

3 Stage conveyor (max PCB size 300 x 250mm)

Handheld Barcode Reader (1D / 2D)

Defect Review Station

Calibration Target



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