

True  now Powered by Intelligent Platform
for Smart Factory 

ZENITH 
Ultra High-Speed

World-Fastest Full 3D Automated Optical Inspection



Ultra high detection speed



Best full 3D inspection capability



Package SMT
includes 3D pro
cess CNC data
system



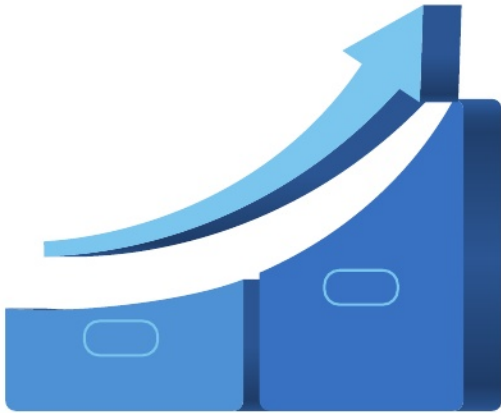
World-Fastest Full 3D Automated Optical Inspection

True



The best full 3D inspection performance

- Measure and detect various defects



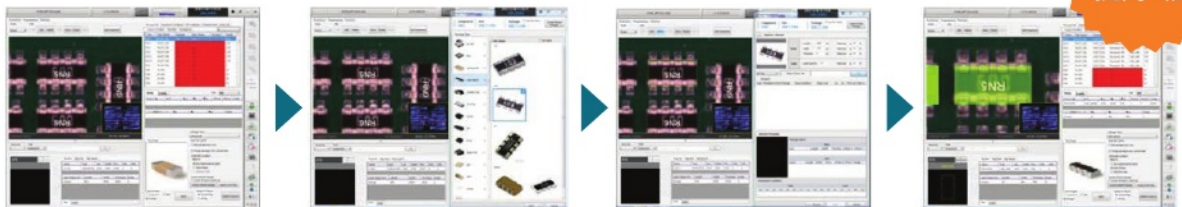
ZENITH ZENITH UHS Ultra High-Speed

- Size, rotation, bridge, micro warped, missing piece, side stand, standing tablet, reverse piece, OCV/OCR, offset, 3D polarity, warped, side stand, poor welding, etc
- and can achieve the final solution to improve product yield



Fast and intuitive programming system: template management

- Based on quantified test results for easier test conditions setting and correction package to
- provide standard component library, greatly improve the programming speed

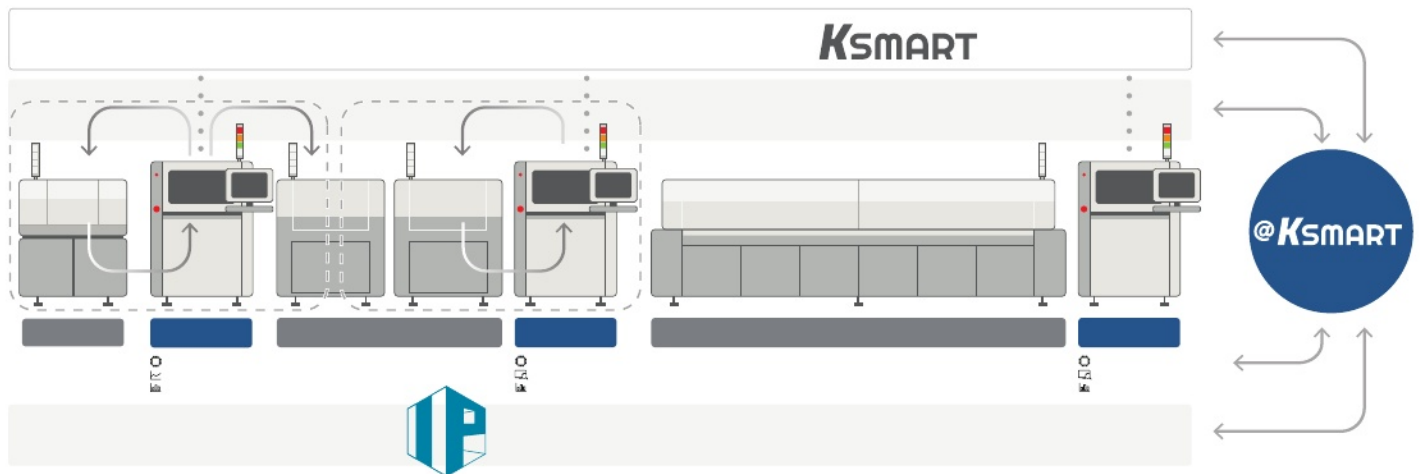


速度
提高2倍

· Select the component type



等：大自智能制造 / 工厂大系统自动工作优化



SPC@KSMART

Optional ☒

SPC based on reliable 3D data

- Perform necessary analysis from an intuitive graphical interface
- Speed up cause analysis to improve the normal operation of equipment



OLD (Off-Line Debugging/ off-line debugging) @KSMART

Optional ☒

Minimize downtime when debugging your program

- The feed and check machine will synchronize and update the service function with the real time test



LMI (Library Manager/ Database Administrator) @KSMART

Program management

- Stream storage process and superior differentiation after the process of the order and change and maintenance test change bar is easier. In the central management database → multiple AOI
- Different users can give different permissions • Each user's operation is automatically recorded in the history

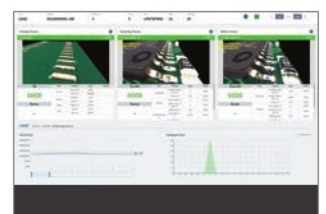


Link @KSMART

Optional ☒

Spi-aoi communication solution based on 3D data

- Browse, diagnose and optimize printing, mounting and reflow engineering • Use Koh Young 3D SPI and 3D AOI test results to identify the root cause of defects



要求		解法方法	
阴影问题解决方法		· 消除阴影的摩尔条文技术&八方向投射光系统	
镜面问题解决方法			
小元件检测 (0402mm)		· 多频率莫尔技术	
大测量范围 + 精确度 (测量范围问题)		· 板弯补偿 (Pad Referencing + 多频率莫尔技术(选项))	
实时 PCB 偏差补偿			
深色元件和白体元件位置元件体			
焊錫微翘检测		· 全3D 测量	
焊锡连接面检测			
3D极性检测			
元件裂缝检测			
检测项目		· 缺件、偏移、旋转、三维极性、反件、OCV、翘立、侧立、立碑、焊接不良等	
检测性能	相机分辨率	15μm	20μm
	FOV尺寸	42×42mm (1.65×1.65 inch)	56×56mm (2.20×2.20 inch)
	全3D检测速度	27.6-51.9 cm²/s (检测速度因PCB和检测条件不同而异。)	
	高度精度 (校正模块)	· ±3%	
	相机	· 8百万像素相机	
	照明	· IR-RGB LED Dome Styled Illumination	
	最大测量高度	· 5mm / 25mm (选项)	
基板对应	轨道宽度调整	· 自动	
	轨道固定方式	· 前轨固定/后轨固定 (出货时固定)	
软件	可对应输入格式	· Gerber data (274X, 274D)、ODB++、Placement file、Mounter JOB file、Allegro、Zuken、Mentor (选项)	
	编程软件	· ePM-AOI、AOI GUI	
	统计管理工具	· SPC@KSMART (选项) · 返修站 (选项) · KSMART 远程监控系统 (选项)	
	界面操作便利性	· Library Manager@KSMART	
	操作系统	· KYCal: 自动校准相机/照明/高度 · Intel i7-3970X (6Core)、32GB、Window 7 Ultimate 64bit	
Add-on Solutions	· 1D & 2D Handy Barcode Reader · 1D & 2D Inline Barcode Reader · Offline Programming Station · SPC@KSMART		· Warp Compensation · Foreign Material Inspection · Review Station · Up to 25mm Height Inspection

※ 以上规格如有更改、恕不另行通知。

	M	L	DL	XL
PCB 最大尺寸	330X330mm (13X13 inch)	510X510mm (20X20 inch)	Dual: 510X320mm (20X12.6 inch) Single: 510X580mm (20X22.8 inch)	850X690mm (33.4X27.1 inch)
PCB 最小尺寸	50X50mm (1.97X1.97 inch)			70X70mm (2.7X2.7 inch)
PCB 厚度	0.4~5mm (0.015~0.20 inch)			0.5~8mm (0.02~0.31 inch)
最大 PCB 重量	Ring Belt : 2kg(4.4 lbs), Timing Belt : 5kg(11 lbs)			10kg(22 lbs)
机器重量	550kg(1212 lbs)	600kg(1322 lbs)	700kg(1543 lbs)	850kg(1874 lbs)
底侧间隙	50mm(1.97 inch)			
耗材	200~240VAC, 50/60Hz Single Phase, 5Kgf/cm²			
W	820mm(32.2 inch)	1000mm(39.3 inch)	1000mm(39.3 inch)	1350mm(53.1 inch)
D	1265mm(49.8 inch)	1265mm(49.8 inch)	1445mm(56.9 inch)	1445mm(56.9 inch)
H	1627mm(64 inch)			
F	985mm(38.7 inch)		1165mm(45.8 inch)	

