

AI+3D检测设备领导品牌

Alpha H510



○ AI 3D SPI

AI 3D SPI



真3D+AI 一次检测所有缺陷
国际领先的深度学习SPI系统供应商

True 3D+AI detects all defects at one time
the world's leading system supplier for deep learning SPI

产品特点

PRODUCT FEATURES

- 最新自研AAM绝对精度测量系统, 精确检测01005mm焊盘印刷不良
The latest self-developed AAM absolute precision measuring system, accurate detection of poor pad printing of 01005 mm components.
- 高精度自动Z轴模组, 可以适应多种复杂制程
High-precision automatic Z-axis module, capable of adapting to various complex processes
- 可根据工厂需求对接集成 MES 系统
Can be integrated with MES according to factory requirements.
- 强大的 SPC 软件, 提供丰富准确的数据统计
Powerful SPC (Statistical Process Control) software provides rich and accurate data statistics.
- 一体式铸造, 高刚性平台
Integrated casting, high-rigidity platform

3D 检测效果

3D INSPECTION EFFECT

小角度2路投影系统,更大程度消除小间距遮挡

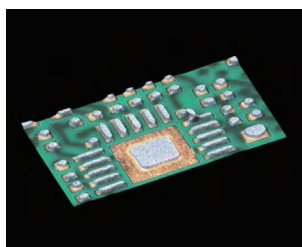
Small Angle 2-way projection system, eliminate small spacing occlusion to a greater extent

Breakthrough Morie fringe algorithm to further reduce CT time



常见缺陷检测

COMMON DEFECTS



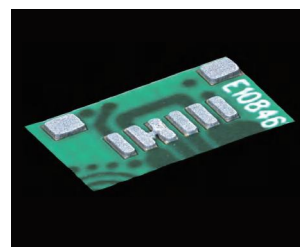
多锡
Excess solder



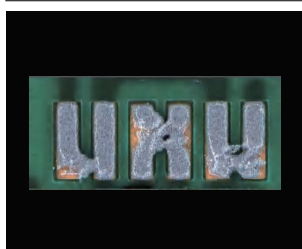
漏印
Print leakage



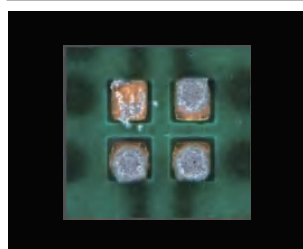
偏移
Skew



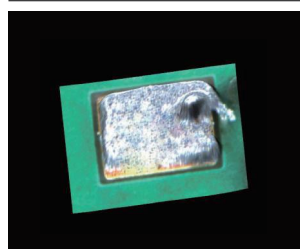
桥连
Short circuit



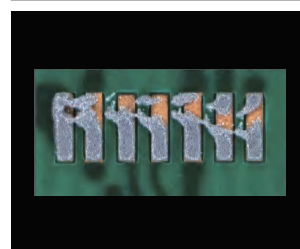
桥连
Short circuit



少锡
Insufficient solder



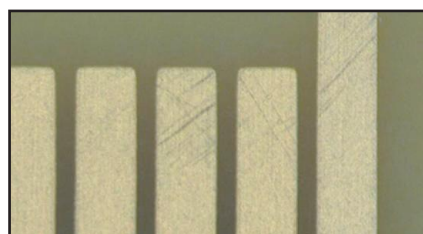
锡膏拉尖
Irregular solder paste



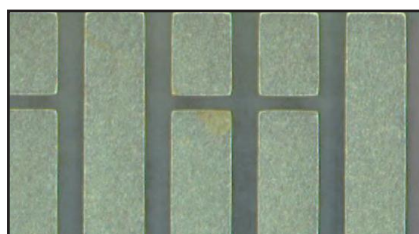
异形
Odd-shaped

AI可检测缺陷

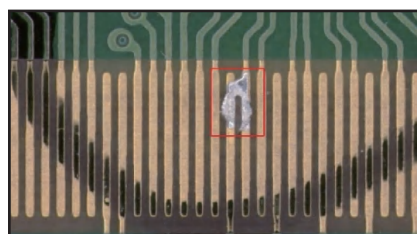
AI DETECTABLE DEFECTS



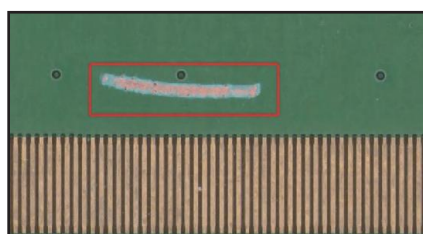
金面划伤
Gold surface scratch



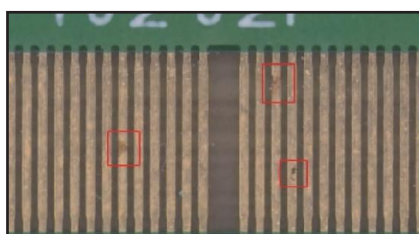
金面污染
Gold surface contamination



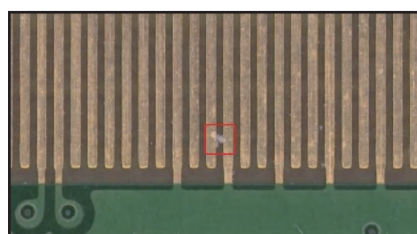
沾锡
Excess solder



漏铜
Copper Leakage



异色
Oxidation



异物
Foreign material

设备参数EQUIPMENT PARAMETERS

系列产品 Series		Alpha H510	Alpha H510-D	Alpha H850
类型 Type		标准 Standard	双轨 Dual-rail	单头单轨或双轨 Single-head Single-rail or Dual-rail
视觉系统 Visual System	成像 Imaging	标配 Standard: 1200W ; 选配 Optional: 2100W		
	分辨率 Resolution Ratio	5μm/10μm/15μm/20μm		
	FOV尺寸 FOV Size	20mm*15mm/40mm*30mm/60mm*45mm		
	速度 Speed	0.34s/FOV		
	镜头类型 Type of lens	远心镜头 Telecentric lens		
	投影头 Projector	双投影头 Dual projector head		
运动机构 Motion Mechanism	丝杆精度 Accuracy	±1μm		
	XY定位精度 XY positioning accuracy	10μm		
	Z轴实时升降板弯补偿 Z-axis real-time lifting plate bending compensation	标配 Standard		
	XY运动 XY motion	AC伺服马达 AC Servo motor		
	流向 Direction	左到右或右到左，可定制 Left--Right or Right--Left, Customizable		
	轨道高度 Rail Height	900±30mm		
电气 Electrical	电源 Power Supply	AC220V		
	功率 Power	3KW		
	气压 Air pressure	0.4-0.6MPa		
检查规格 Checking Specification	基板尺寸 PCB size	510*460mm	510*309mm*2(双轨模式dual-rail) 510*590mm (单轨模式Single-rail)	850*600mm
重复性 Repeatability	重复精度 Repeated accuracy	4Sigma: 高度height<1um; 体积volume<1%; 面积area<1%		
	检测重复性 Detection repeatability	<10%		
SPC	支持常规数据统计 Support for routine data statistics	Histogram;Xbar-R chart,Xbar-s Chart;CP&CPK;GRR;SPI Daily/weekly/Monthly report		
Gerber和CAD导入 Gerber and CAD import	Gerber和CAD导入 Gerber and CAD import	支持Gerber格式（274X, 274D），支持CAD和Gerber合并输出SPI档 Support Gerber format (274X, 274D), support combine CAD and Gerber then output SPI file		
选配功能 Optional Funtions	人工智能 Artificial Intelligence	AI大数据训练中心 AI Mass Data Training Center		
	辅助功能 Additional function	远程集中复判Remote centralized rejudgment、条码读取bar code reading		
检查项目 Inspection Item	检查项目 Inspection item	高度，面积，体积，偏移，形状 Height、Area、Dimension、Offset、Shape		
	检测不良类型 Types of Defects Detection	漏印，少锡，多锡，连锡，偏位，形状不良，异物，沾锡 Print leakage、insufficient solder、excess solder、solder-connection、skew、odd-shaped、foreign material、Excess solder		

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子公司&销售中心: 德国-汉诺威/立陶宛-考纳斯/中国深圳、苏州、四川、武汉、西安

SUBSIDIARIES & SALES CENTERS: Germany - Hanover / Lithuania - Kaunas / China - Shenzhen, Suzhou, Sichuan, Wuhan, Xi'an

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GLOBAL NETWORK: Germany, China, Lithuania, Canada, France, Spain, Japan, Taiwan (China), Vietnam, Thailand, Singapore, India, Mexico, Russia

设备参数

EQUIPMENT PARAMETERS

系列产品 Series		Alpha H1200	Alpha H1500	Alpha H2000	Alpha H2500
类型 Type		单头单轨或双轨 Single-head Single-rail or Dual-rail			
视觉系统 Visual System	成像 Imaging	标配 Standard: 1200W ; 选配 Optional: 2100W			
	分辨率 Resolution Ratio	5μm/10μm/15μm/20μm			
	FOV尺寸 FOV Size	20mm*15mm/40mm*30mm/60mm*45mm			
	速度 Speed	0.34s/FOV			
	镜头类型 Type of lens	远心镜头 Telecentric lens			
	投影头 Projector	双投影头 Dual projector head			
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	Z轴实时升降板弯补偿 Z-axis real-time lifting plate bending compensation	标配 Standard			
	XY运动 XY motion	AC伺服马达 AC Servo motor			
	流向 Direction	左到右或右到左，可定制 Left--Right or Right--Left, Customizable			
	轨道高度 Rail Height	900±30mm			
电气 Electrical	电源 Power Supply	AC220V			
	功率 Power	3KW			
	气压 Air pressure	0.4-0.6MPa			
检查规格 Checking Specification	基板尺寸 PCB size	1200*510mm	1500*510mm	2000*510mm	2500*510mm
重复性 Repeatability	重复精度 Repeated accuracy	4Sigma: 高度height<1um;体积volume<1%; 面积area<1%			
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	辅助功能 Additional function	远程集中复判 Remote centralized rejudgment、条码读取 barcode reading			
检查项目 Inspection Item	检查项目 Inspection item	高度，面积，体积，偏移，形状 Height、Area、Dimension、Offset、Shape			
	检测不良类型 Types of Defects Detection	漏印，少锡，多锡，连锡，偏位，形状不良，异物，沾锡 Print leakage、insufficient solder、excess solder、solder-connection、skew、odd-shaped、foreign material、Excess solder			