



inspector



because inspection matters

Automatic Optical Inspection systems

- √ Automatic Optical Inspection of PCB assemblies..... *test your PCB's optically and replace manual inspection*
- √ Inspects:..... *use inspection in all stages of the production process*
 - Components: SMT & THT (missing, type, polarity, offset, text, colours etc)
 - Solder Paste and CIP (Components in Paste; pre-reflow)
 - Soldering: Post Reflow, Post Wave, Selective, Manual
- √ Flexible classification and reporting scenarios..... *integrate AOI efficiently in your existing operations and factory lay-out*
- √ In-Line and Desktop versions in different sizes *choose the best hardware configuration for your processes*
- √ Multi-angle 3 colour lighting with Meniscus Profiler *reliable solder joint analysis*
- √ Full colour camera and colour algorithms for 24bit defect detection *find defects easier including printing defects on Gold or Cu plated PCB's*
- √ Synthetic Imaging and Spectral Analysis *powerful algorithms to achieve an optimal balance between defect detection and false reject levels in shortest time*
- √ Programmable from library or Golden Components *be flexible; from manual till full library programming depending on your product*
- √ Prototype mode for 1st off inspection..... *program in minutes to verify your production line is set-up correctly before starting full production*
- √ Different resolution options *change your magnification depending on your project*
- √ Overhead Gantry construction..... *no moving PCB during inspection, necessary for pre-reflow inspection*
- √ Desktop versions with Manual or Automatic operated PCB loader *easy PCB drawer-loader with automatic clamping for comfortable handling of PCB's. Drawer can be optionally motorised*
- √ Upgradeable concept grows with your company *allows hardware upgrades to let your AOI grow with your business*



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Desktop Series Specifications	iSpector 350 ML/fw	iSpector 650 ML/fw
Maximum PCB Size	350x250mm (13.8" x 9.8")	650x550mm (25.6" x 21.6")
Characteristics		
Product type	Automatic Optical Inspector	
In-line/Off line	Off-Line	
Camera movement	X + Y Direction	
PCB movement	Stationary	
PCB fixation	Fixed support. Options: Manual Drawer with Auto Clamping or Motorised Drawer	
Parts inspection	Presence, Polarity, Offset, Correctness, Soldering	
Printing/paste inspection	Offset, Smearing, Bridges, Uniformity	
Distinction principle	Synthetic Imaging, Spectral Analysis, Greyscale limits	
Distinction parameters	Brightness, Hue, Saturation via Filters	
Camera type	XGA CCD digital with FireWire	
Camera Field Of View/Resolution	Adjustable 24x19mm/20u to 32x24mm/25um	
Lens	High precision lens	
Lighting system	Omnidirectional; full spectrum LED (fw) or 3-angle RGB LED (ML)	
Specifications		
Minimum inspection component size	0201" (0.6x0.3mm)(25um resolution)	
Positioning accuracy	<0.3mm	
Component clearance (top)	+30mm (1.18")	
Component clearance (bottom)	-60mm (option -100mm (-3.9"))	-60mm (option -100mm (-3.9"))
Maximum PCB Size	350x250mm (13.8" x 9.8")	650x550mm (25.6" x 21.6")
Movement speed	720mm/s	
Inspection capacity typical	1000cps/min	
Mains	100-240 Vac / 240W	
Interfacing		
Control PC type	Apple iMac/MacPro Intel DualCore with Mac OSX (not included)	
Control interface	USB	
Data interface	Firewire 800	
General		
Operating temperature	15-30 degr C	
Operating humidity	15-80 % RH	
External size	W710 x D720 x H500 (28.0" x 28.3" x 19.7")	W1000 x D980 x H500 (39.4" x 38.6" x 19.7")
Weight	64kg (141lbs)	80kg (176lbs)

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