

Desktop 3D Automatic Optical Inspection systems

True 3D imaging, Side cameras integrated in 3D processing. Revolutionary 3D imaging technology The latest generation of high speed, high quality cameras High Speed 90Fps USB 3 Vision Cameras No capture card requirements. Up to 50% reduction of cycle time. 2X FOV over previous Generation reliable solder joint meniscus and pad surface analysis (to find Multi-color 4 angle lighting with Line Source Coaxial Lighting and meniscus and paste printing defects) use inspection in all stages of the production process Inspects: Components: SMT & THT (missing, type, polarity, offset, text, colors, etc.) Component Height and Coplanarity 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 inspect solder joints without shadow effects from tall Line Sourced DOAL(Direct On Axis Lighting) coaxial lighting components nearby and accurate inspection model building system with high resolution Telecentric Optics..... find defects easier including printing defects on Gold or Cu Low Noise Large CCD High Speed 24 bit Color Camera plated PCB's powerful algorithms to achieve an optimal balance between Synthetic Imaging and Spectral Analysis..... defect detection and false reject levels in shortest time



Triple use of side camera's

In height adjustable optical head

Prototype mode for 1st off inspection.....

Use for automatic inspection, classification and repair

correctly before starting full production

sandwich assemblies

program in minutes to verify your production line is set-up

Compensate for PCB warp and adapt to tall component and

Desktop

Enwertpectar

GTAz

350, 520, 650, 800

Maximum PCB Size	250050 (12.00			
MOVILLIALLI L CD 2176	350x250mm (13.8" x 9.8")	520x460mm (20.5"x 18.1")	650x550mm (25.6" x 21.6")	800x550mm (31.5''x21.6'')
Characteristic	s			
Product type	Automatic Optical Inspector			
n-line/Off-line	Off-Line			
Camera movement	X Direction	X + Y Direction	X + Y Direction	X + Y Direction
PCB movement	Moving in Y	Stationary	Stationary	Stationary
PCB fixation	Direct Loading	Direct Loading	Manual Drawer Options: Motorized Drawer, Transverse loader	Manual Drawer Options: Motorized Drawer, Transverse loader
Parts inspection	Presence, Polarity, Offset, Correctness, Soldering, Height			
Printing/paste inspection	Offset, Smearing, Bridges, Uniformity			
mage Processing	Synthetic Imaging, Spectral Analysis, Greyscale limits			
mage Parameters	Brightness, Hue, Saturation via Filters			
Camera type	Digital color USB 3.0 Vision 90 Fps			
Camera Field Of View/Resolution	36.5x36.5mm/18.75µm or 19.5x19.5mm/10µm			
.ens	Telecentric lens with built in prism for DOAL Lighting			ting
ighting system	Omnidirectional Quad LED rings: Side White, Side Red, Main, Line Sourced DOAL Diffused On Axis Lighting (Coaxial))			
Specification	S			
Minimum inspection component size	01005" (0.4x0.2mm)(10µm resolution)			
Positioning accuracy	Pixel related Feedback Loop			
Component clearance (top)	30mm (1.2")			
Side Cameras	8x Digital color USB 3.0 Vision in 45/45 orientation			
Z-Axis movement range	30mm (1.2")			
Component clearance (bottom)	70mm (2.8")	70mm (2.8")	70mm (2.8")	70mm (2.8")
Maximum PCB Size	350x250mm (13.8" x 9.8")	520x460mm (20.5"x 18.1")	650x550mm (25.6" x 21.6")	800x550mm (31.5"x21.6")
Movement speed	720mm/s			
nspection capacity typical	2750ppm			
Electrical Requirement	100-240 VAC / 150W			
Interfacing	7	100 240 1	7.67 10011	
Control PC type	9	Apple Mac (Inte	ell with Mac OSX	
Control interface	Apple Mac (Intel) with Mac OSX USB			
Data interface	USB 3.0 Vision			
Genero	li	000 0.0	7 131011	
Operating temperature	15-30 deg. C(60-90 deg. F)			
Operating humidity	15-30 deg. C(60-70 deg. 1)			
,	W736 x D874 x H450 (29.0" x 34.4" x 7.7")	W1110 x D1040 x H600	W940 x D1015 x H500	
External size		(43.7" x 50" x 23.6")	(37.0" x 34.0" x 19.7")	(45.55" x 34.0" x 19.7")

Mek Europe reserves the right to change the design and specifications without notice. @ Mek Europe BV, December 2014

Represented/Distributed by:



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