ispectar

Spector AUX

JUz 520







SpectorBOX JUz 550



CCI Conformal Coating Inspection

- √ Automatic optical inspection of conformal coating on PCB assemblies
- √ Inspects:
 - Components: missing, type, polarity, offset, text, colours etc.
 - UV-fluorescent coating: absence, presence, and bubbles
- √ Flexible classification and MES integration scenarios via SQL or XML (option)
- $\sqrt{}$ Online self-training and installation via iMentor
- $\sqrt{365}$ nm UV LED and white light
- √ Low noise large CCD 24-bit colour camera with a high speed USB3 vision interface
- √ Programmable from library, golden components or coated board
- √ Multi mode lighting

Inspect coating, coverage, splashes, and bubbles

Full inspection coverage at an entry level price

Powerful algorithms to achieve an optimal balance between defect detection and false reject levels in the shortest possible time

Integrate AOI efficiently in your existing operations and factory IT systems

Comprehensive and easy-to-use online training suite

High intensity UV source tuned to the ideal UV fluorescence of 365 nm

Capture card-free design 1.5x faster than CameraLink

Be flexible; from manual till full library programming depending on your product

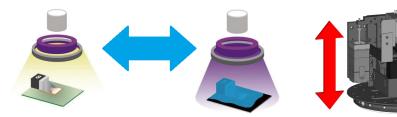
White only, UV only, white plus UV



ispector spectorAUX

The latest generation Mek iSpector desktop inline and SpectorBOX CCI is designed to provide high detail and flexible conformal coating inspection.

iSpector is able to inspect component bodies and Coatings by use of the Main White light and High intensity UV LED light sources. Our Coverage, Splash and Histogram analysis provides accurate and reliable inspection results, With low false calls.



Included Z axis allows the inspection of taller components and hybrid PCBs

Wide coverage of defects on Coating and component inspection

Conformal Coating

Coverage Bubbles Damage Splash

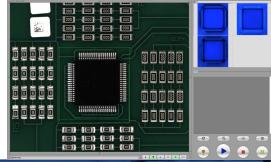
Component

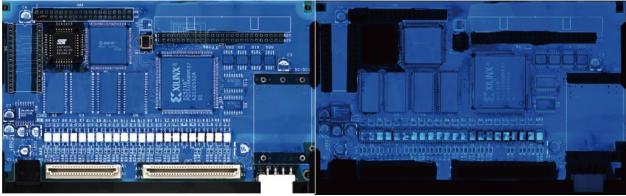
Presence	
Polarity	0 = 0 0 = 0 0 = 0 0 0 0 0
Text	000
Position	

Clean and Simple Interface

With powerful features. Full programming capabilities, conformal inspection, component presence/absence, polarity and value. Super fast self learning programming.

Import NC data from your pick and place system or most popular CAD/CAM software. Utilizing our extensive custom libraries to provide fast programing times and reliable results with low false fails.





Brilliant imaging on coating with depth of coating inspection by blue level.

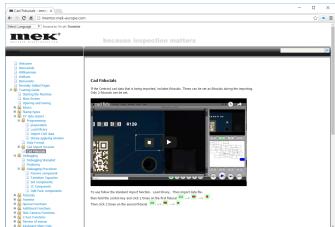


ispectar

Spector AUX



iMentor is Mek's extensive and exclusive online training system that covers all aspects of the MEK AOI/CCI software. From basic to advanced operation including videos. It is frequently updated to covers new features in the latest software.



Instructions on how to install updates, make backups and special application notes. Latest software releases and inspection library updates. Searchable topics. Also available in multiple languages.

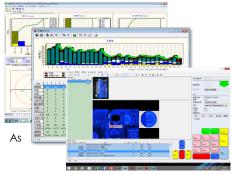
A unique login is provided for each customer. As well as access to our user forum.

Optional on site training is also available.

Optional data collection, Offline Repair/Review and SPC Analysis.

The Catch system which comprises CSCenter data collection and remote monitoring, CSRepair Offline defect review and repair software, and CSAnalyzer SPC and trend analysis. PostgreSQL enterprise grade database storage. Catch is a fully scalable solution from single AOI/CCI stations to 40 plus machines





Inspection can be tracked and recorded. Assigned to barcode read from the PCB's at the AOI or CCI.

Base formats including Datamatrix, QRcode, Code 128 and Code 39. well as allowing multiple barcodes per panel.



Optional offline programming and debug. **OLT22X** uses images captured from the AOI to create full AOI/CCI programs and can also be used in conjunction with the AOI/CCI to do live offline programming debug.

The offline programming software simulates the machine and can therefore perform almost all the same functions during programming that are available on the AOI/CCI system.





Maximum PCB Size Characteristics Product Type In-line/Off-line Movement Type PCB Movement			iSpector JUz 520 520x460 mm (20.4" x 18.1)	SpectorBox JUz 550 (T/B) 550x500 (21.7" x 19.7)		
Characteristics Product Type In-line/Off-line Movement Type PCB Movement	(25.6"x21.6") A	(13.77" x 9.84") automatic Optical Cor		550x500 (21.7" x 19.7)		
Product Type In-line/Off-line Movement Type PCB Movement						
In-line/Off-line Movement Type PCB Movement						
Movement Type PCB Movement	InL	ine	Automatic Optical Conformal Coating Inspector			
PCB Movement		InLine Desktop Modular		Modular		
	Camera X, Y					
	Static Conveyor		Static Table	Integration		
PCB Fixation No	North South Clamping, PCB Edge Lift		North, South Clamping	Integration		
Parts Inspection	Presence, Polarity, Offset, OCV, Conformal Coating, Presence, Absence, Splashes, Bubbles, Coverage					
Distinction Principle	Synthetic Imaging, Spectral Analysis, Greyscale Limits					
Distinction Parameters	Brightness, Hue, Saturation via Filters					
Camera Type	5MP CCD digital with USB 3 Vision					
Camera Field Of View/Resolution	47 x 39 mm (1.8" x 1.53") 19μm					
Lens	High Resolution Lens					
Lighting System	Dual LED :White Main , 365 nm UV LED					
Specifications						
Minimum Inspection Component Size	0401" (19µm resolution)					
Positioning Accuracy	Pixel Related Feedback Loop					
Component Clearance (Top/ Bottom)	+60mm (1.6")/-60mm (-2.2")					
Movement Speed	720mm/s					
Inspection capacity typical	2500cps/min 4.45 FOV/sec					
Mains	100-240 Vac / 150W					
Interfacing						
Control PC type (not included)	Apple Mac Mini or iMac					
Control / Imaging Interface	USB / USB 3.0 Vision					
Programming Interface	CSV Centroid File (Placement Data)					
Repair/Monitor/SPC System/MES- interface	Mek Catch System (Windows 7/8/10) (Option)					
3rd party Interfacing (MES-if) & Data Storage	Enterprise SQL DB/XML Files/Socket (Catch System Option)					
General						
Operating Temperature	15-30 degr C					
Operating Humidity	15-80 % RH					
External Size H12	1040 x D1077 x 270mm (40.9" x 42.4" x 50.0")	W 698 x D 600 x H 1298 mm (W 27.5" x D 23.6" x H 51.1")	W 1030 x D 1060 x 410 mm (W 40.5" x D 41.7" x 16.1")	W900 x D1080 x H316 (35.5" x 42.5" x 12.4")		
Weight 24	40kg (529lbs)	210 kg (463 lbs)	95 kg (529 lbs)	80kg (220lbs)		

Marantz Electronics reserves the right to change the design and specifications without notice. © Mek Europe BV, October 2021. Rev4

Represented/Distributed by:

