

*iSpector*

*SpectorBOX*

JUz 350L



JUz 520



SpectorBOX JUz 550

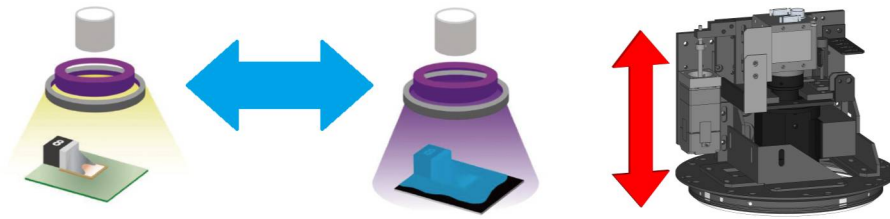


## CCI Conformal Coating Inspection

√ Automatic optical inspection of conformal coating on PCB assemblies	Inspect coating coverage splashes and bubbles
√ Inspects: <ul style="list-style-type: none"><li>– Components: missing, type, polarity, offset, text, colours etc</li><li>– UV florescent coating inspection of absence, splashes and bubbles</li></ul>	Full inspection coverage at an entry level price. Powerful algorithms to achieve an optimal balance between defect detection and false reject levels in shortest time
√ Flexible classification and MES integration scenarios via SQL or XML (option)	Integrate AOI efficiently in your existing operations and factory IT systems
√ Online self training and installation via iMentor	Comprehensive and easy to use online training suite
√ 365 nm UV LED and white light	High intensity UV source Tune to ideal UV fluorescence of 365 nm
√ Low noise large CCD 24 bit colour camera high speed USB3 vision interface	Capture card free design 1.5x faster than CameraLink
√ Programmable from library or golden components	Be flexible; from manual till full library programming depending on your product
√ Multi mode lighting	White only, UV only, white plus UV, white and UV-white

# iSpector SpectorBOX

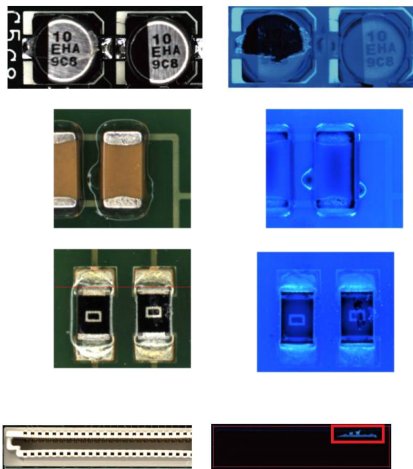
The latest generation Mek iSpector desktop inline and SpectorBOX CCI is designed to provide high detail and flexible conformal coating inspection. iSpector is able to inspect component bodies and Coatings by use of the Main White light and High intensity UV LED light sources. Our Coverage, Splash and 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

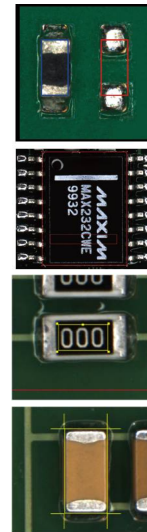
## Component

Presence

Polarity

Text

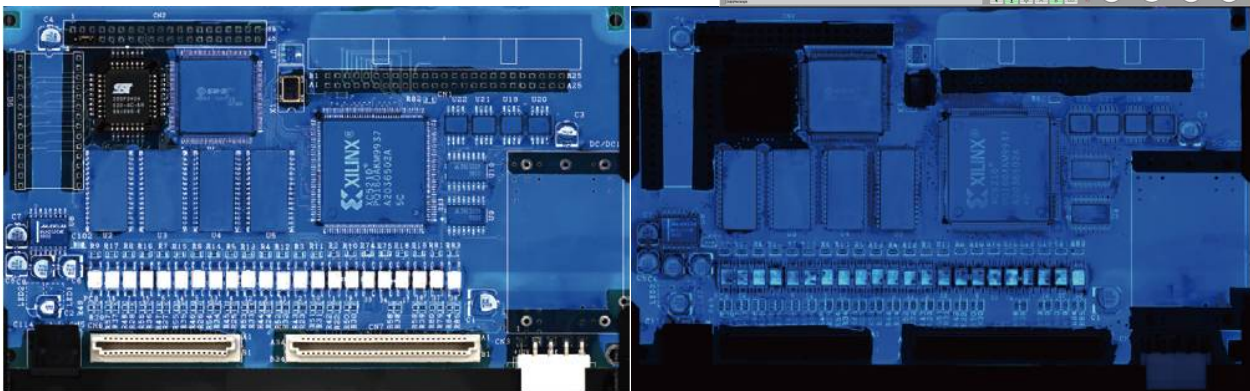
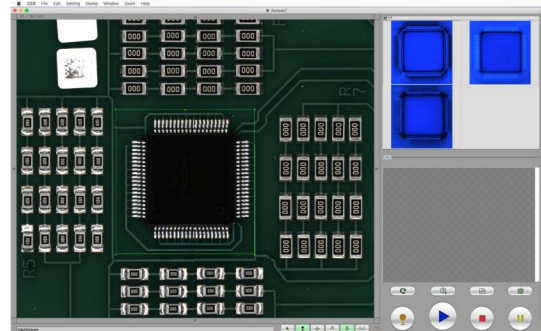
Position



## Clean and Simple Interface

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

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



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

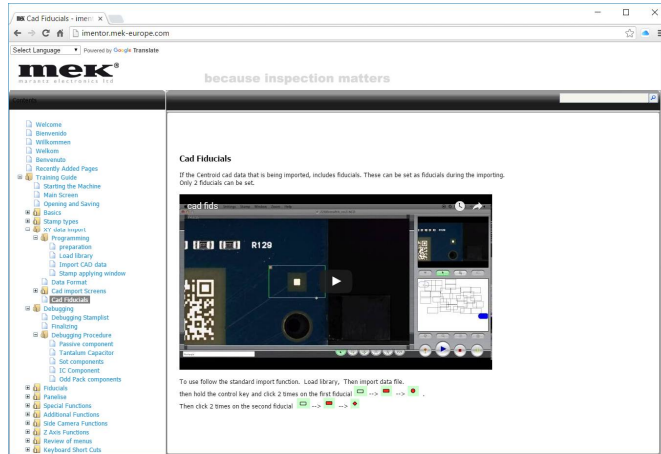
# iSpector

# Spector-BDX



## iMentor

**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.



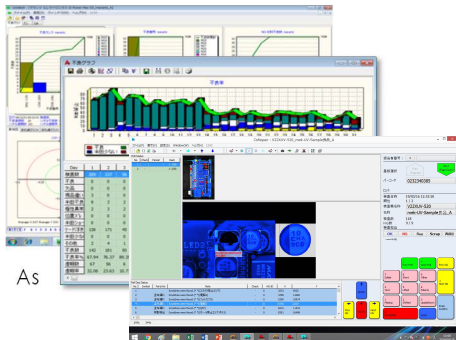
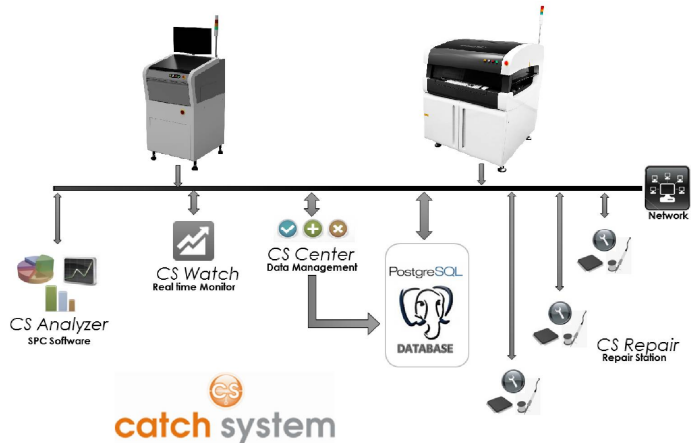
Instructions on how to install updates, make backups and special application notes. Latest software releases and inspection library updates. Searchable topics. Also available in multiple languages.

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



As

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.



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marantz electronics ltd

because inspection matters

# iSpector Spector BOX

Desktop Series Specifications	iSpector JUz 350L	iSpector JUz 520	SpectorBox JUz 550 (T/B)
Maximum PCB Size	350x250mm (13.77" x 9.84")	520x460 (20.4" x 18.1)	550x500 (21.7" x 19.7)
Characteristics			
Product Type	Automatic Optical Conformal Coating Inspector		
In-line/Off-line	InLine	Desktop	Modular
Movement Type	Camera X, Y		
PCB Movement	Static Conveyor	Static Table	Integration
PCB Fixation	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	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	210 kg (463 lbs)	95 kg (529 lbs)	80kg (220lbs)

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Represented/Distributed by:

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