

CX150i™

Fast, Simple and Accurate Conformal Coating Inspection

CX150i™ automates inline conformal coating inspection process using a brand-new UV Strobed Inspection Module (SIM). Based on proven AOI technology, CX150i™ gives you the assurance of quality, consistency and speed.

Designed with an 80 Megapixel sensor, CX150i™ offers UV illumination for conformal coating inspection and white light illumination for component presence/absence inspection.

CX150i™ is powered by AI² (Autonomous Image Interpretation) technology enabling faster and simpler inspection – no parameters to choose or algorithms to tune. AI² offers precise discrimination even with excessive variance delivering accurate results with just one example. All this means lowest false call rates, minimal tuning and quality results with single panel inspection.

*Fastest in the industry
at 100cm²/sec*



*On standard parts only (excludes conveyor belts and other consumables); 1 year warranty on service



New UV Strobed Inspection Module (SIM)



UV illumination for conformal coating inspection



White Illumination for component absence / presence



High Resolution (12um) for Best Quality Images



Faster, simpler and smarter programming with AI²



100% program compatibility with QX series AOI systems

CX150i™

INSPECTION CAPABILITIES

Typical Scanning Speed	100 cm²/sec (15.5 in²/sec)
Minimum Component Size (for absence/presence inspection)	0402 mm (01005 in.)
Board Length	Min: 50 mm (2 in.) / Max 457 mm (18 in.)
Board Width	Min: 50 mm (2 in.) / Max 308 mm (12 in.)
Component Height Clearance (max)	50 mm (1.968 in.)
Board Edge Clearance (min)	3.0 mm (0.125 in.) – bottom side only
Defect Detection	Coating: Coverage, non-coverage, cracks and delamination
Measurement Gage R&R	< 10% (down to 0402 mm components)

VISION SYSTEM

Imagers	80 Megapixel Sensor
Image Transfer Protocol	PCIe
Lighting	Strobe White Light and UV Illumination
Resolution	12 µm pixel size
Image Processing	Autonomous Image Interpretation (AI²) Technology
Programming	Simple inline or offline
CAD Import	Any column separated text file (Standard information required – ref. designator, XY, Angle, Part no.)

SYSTEM SPECIFICATIONS

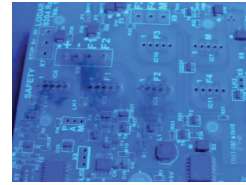
Conveyor Height	Adjustable to 835 – 990 mm (33 – 39 in.)
Machine Interface	SMEMA, RS232 & Ethernet
Alarms	Light pole and audible alarm
Power Requirements	100 - 120V, 15 amp max or 220 – 240V, 10 Amp max, 50/60 Hz
System Dimensions	100 x 89.7 x 124 cm
Weight	~ 219 kg (483 lbs.)
Machine Installation	< 1 hour



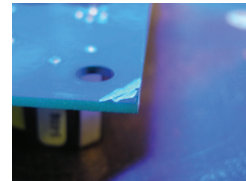
Why Automated Conformal Coating Inspection?

- ▶ Precise verification of conformal coating application – critical for long term PCB reliability
- ▶ Fast in-line inspection at 100cm²/sec
- ▶ Consistent and reliable results
- ▶ Reduces operator costs and eliminates visual inspection errors

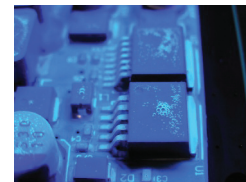
De-wetting



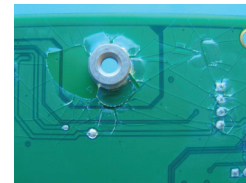
De-lamination



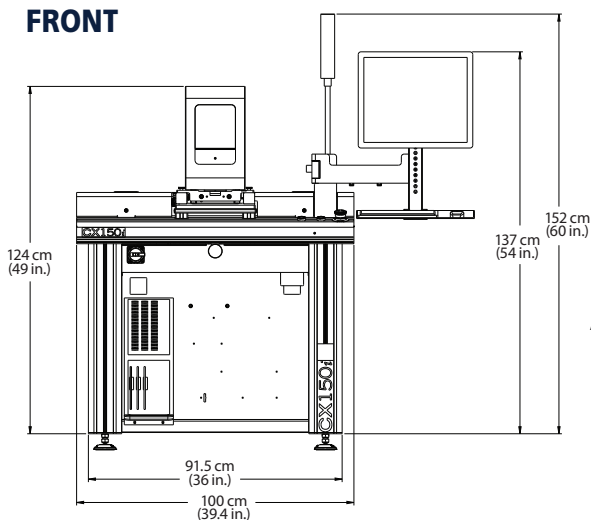
Bubbles



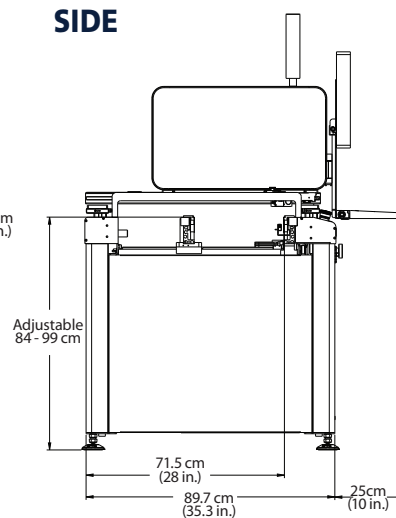
Cracks



FRONT



SIDE



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For information about other CyberOptics' offices and global support network, please visit www.cyberoptics.com

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Specifications subject to change without notice.

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