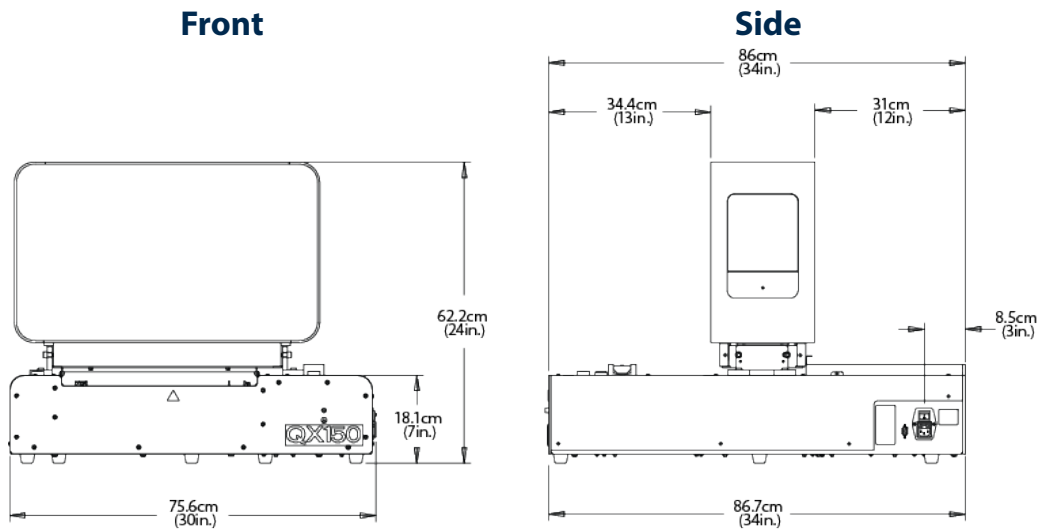


Inspection Capabilities		QX150	QX150-M
Inspection Speed	150 cm²/sec (23.25 in.²/sec)		
Minimum Component Size	0402 mm (01005 in.)		
Board Length	50 mm to 330 mm (2.0 to 13.0 in.)	50 mm to 510 mm (2.0 to 20.0 in.)	
Board Width	50 mm to 320 mm (2.0 to 12.5 in.)	50 mm to 320 mm (2.0 to 12.5 in.)	
Component Height Clearance	35mm		
Lead Pitch	0.3 mm		
Component Types Inspected	Standard SMT (chips, J-lead, gull-wing, BGA, etc.), through-hole, odd-form, clips, connectors, header pins, and more		
Component Defects	Missing, polarity, tombstone, billboard, flipped, wrong part, gross body and lead damage, and more		
Solder Joint Defects	Solder bridge, opens, lifted leads, wettability, excess and insufficient solder, debris, and more		
Other Defects	Gold-finger contamination, pin-in-hole, bent pins, debris, and many others		
Component Measurement Categories	Component X, Y position and Rotation		
Vision System & Technology			
Imagers	80 Megapixel Sensor		
Image Transfer Protocol	PCIe		
Lighting	Strobe White Light (with dark/bright field)		
Resolution	12 µm pixel size		
Image Processing	Statistical Appearance Modeling (SAM™) Technology. Option: Autonomous Image Interpretation (AI²) Technology		
Programming	Simple online or offline		
CAD Import	Any column separated text file with ref designator, XY, Angle, Part no info; Valor process preparation		
System Specifications			
Machine Interface	SMEMA, RS232 and Ethernet		
Power Requirements	100-120 VAC or 220-240 VAC, 50/60Hz, 2 amp max.		
System Dimensions	867 x 756 x 622 mm	1250 x 756 x 622 mm	
Weight	≈ 65 kg (143.3 lbs.)	≈ 130 kg (287 lbs.)	
Options			
Barcode Reader, Rework station, SPC Software, Alignment Target, Light Curtain Sensor			



CYBEROPTICS®

Contact CyberOptics today for more information
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QX150™ 2D AOI

Tabletop with In-Line Performance



Ideal for
high-mix, low volume
environment



CYBEROPTICS®

QX150™ 2D AOI

QX150TM All-New SIM with Enhanced Illumination

The QX150TM is powered by an all-new SIM (Strobed Inspection Module) with enhanced illumination - designed to deliver true, in-line inspection performance. The SIM enables on-the-fly inspection making the QX150TM the fastest tabletop ever at 150 cm²/sec.

A higher sensor resolution (12 µm) offers crisp and clear images for more accurate defect review. And, as always, the SIM is calibration-free.

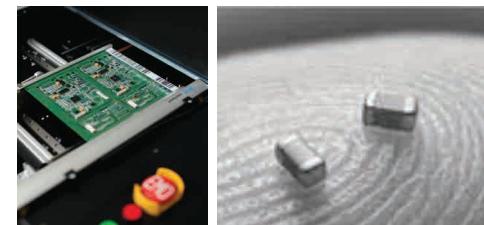


SIM (Strobe Inspection Module)

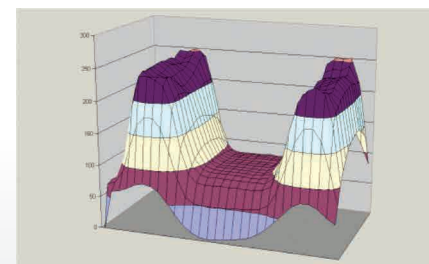
Inspect 'Anything'

CyberOptics' AI² (Autonomous Image Interpretation) technology is designed for both low volume high mix, and high volume low mix Applications, and builds on the proven success of our Statistical Appearance Modeling technology. AI² is all about keeping it simple - no parameters to adjust or algorithms to tune. And, you don't need to anticipate defects or pre-define variance either - AI² does it all for you.

Just draw a box, show a few good examples and you are ready to inspect just about anything. Simply add good examples to the AI² model and the false call rates reduce significantly providing a very robust inspection solution.



01005 component size inspection capability



AI² Software: Unique Image Processing Technique



Components Inspected/ Detected

3-Easy-Steps Programming

Our latest software improvements take programming to a whole, new level - zero to production ready in **less than 13 minutes!** All this is made possible, with an all-new data-rich, pre-loaded library and automated scripts that collect examples and update models - all on their own.

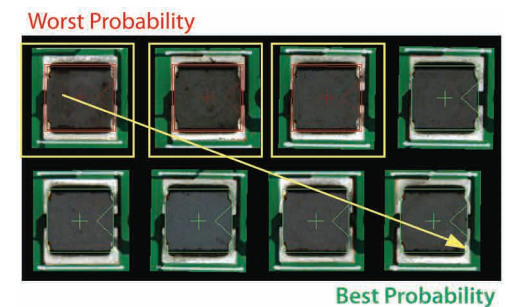


Simplified Programming Process

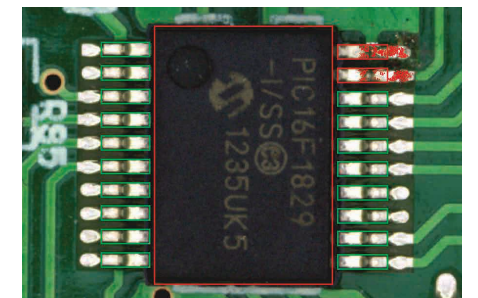
AI² - Faster, Simpler, and Smarter

With AI² technology, programming gets even faster - with a 90% reduction in examples required to create a complete production ready programme - you will achieve superior defect detection and low false call rates even with just **one example**. This means significantly lower tuning time and quality results with one panel inspection. Perfect for those high-mix or low volume applications!

With its unique ability to 'ignore' bad examples in a model, AI² offers precise discrimination even with excessive variance and minimizes effects of outlier examples. Plus, it is a lot simpler with full support for unsupervised and semi-automatic model training. And, examples are pre-sorted so you can select and clear the ones you don't need - very quickly. The pixel marking feature highlights defective spots, so you can identify genuine defects instantly.



Intelligent Ranking of Examples



Active Pixel Marking

Fast, Scalable SPC Solution

CyberReportTM offers full-fledged machine-level to factory-level SPC capability with powerful historical analysis and reporting tools delivering complete traceability for process verification and yield improvement. CyberReportTM is easy to setup and simple to use while providing fast charting with a compact database size.

