## **©YBER©PTICS**

# QX600-L\*\*

## **Maximum Flexibility, Absolute Performance**



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

## MAXIMUM FLEXIBILITY, ABSOLUTE PERFORMANCE

The QX600-L™ AOI system is designed to deliver utmost flexibility to support inspection of all board sizes. It is specially crafted for customers with large board requirements and can cater to board sizes all the way up to 510(L) x 590(W) mm. This unique blend of flexibility and high performance makes it an ideal inspection solution for EMS - covering all applications ranging from small consumer electronics to large telecom server products.

- Dual, high-resolution (12µm) Strobed Inspection Modules (SIM)
- Ultimate flexibility for accurate inspection of all board sizes
- Fast, simple programming with Al<sup>2</sup> technology
- 01005 inspection capability
- Inspect ANYTHING with lowest false call rates
- AOI-SPI Correlation Analysis with CyberConnect™

## **OYBER OPTICS**

### **QX600-L**™

INSPECTION CAPABILITIES	
Typical Scanning Speed	200 cm <sup>2</sup> /sec (31 in <sup>2</sup> /sec)
Component Size (min)	0402 mm (01005 in.)
Board Width	50 mm to 590 mm (2 in. to 23.2 in.)
Board Length	50 mm to 510 mm <sup>†</sup> (2 in. to 20 in.)
Component Height Clearance (max)	35 mm (1.378 in.)
Board Edge Clearance (min)	3.0 mm (0.125 in.) - bottom side only
Components Types Inspected	Standard SMT (chips, J-lead, gull-wing, BGA, etc.), through-hole, odd-form, clips, connectors, header pins, and others
Component Defect Categories	Missing, polarity, tombstone, billboard, flipped, wrong part, gross body and lead damage, and others
Solder Joint Defects Categories	Solder bridge, opens, lifted leads, wettability, excess and insufficient solder, debris, and others
Other Items Detected	Gold-finger contamination, pin-in-hole, bent pins, debris, and many others
Component Measurement Categories	Component X, Y position and Rotation
Measurement Gage R&R	< 10% (down to 0402 mm components)
<sup>†</sup> Board length can be increased to 560mm with integrated conveyor extension. With this setup, the line length will be 150cm.	

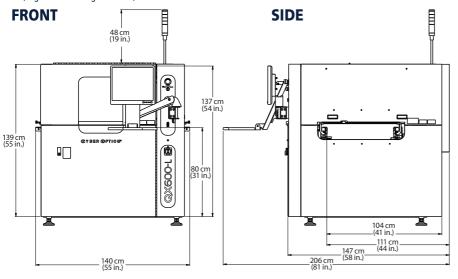


VISION SYSTEM	
Imagers	Multi-imager 150 Megapixel sensor
Image Transfer Protocol	PCle
Lighting	Strobe white light (with dark/bright field)
Resolution	12 um pixel size
Image Processing	Statistical Appearance Modeling (SAM™) Technology Option: Autonomous Image Interpretation (Al²) Technology
Programming	Simple on-line or off-line, ePM software
CAD Import	Any column separated text file (Standard information required – ref. designator, XY, Angle, Part no.,)

SYSTEM SPECIFICATIONS	
Conveyor Height	Adjustable to 832 - 990 mm (33 - 39 in.)
Machine Interface	SMEMA, RS232 & Ethernet
Alarms	Light pole and audible alarm
Power Requirements	100 - 120VAC or 220 - 240V, 50/60Hz, 10 amp max.
System Dimensions (W x D x H)	140 x 147 x 139 cm
Weight	~ 712 kg (1570 lbs.)
Machine Installation	<1 hour

#### **OPTIONS**

SPC Software, Offline Defect Rework Station, Barcode Readers (1D/2D), Sensor Alignment Target, High Speed PC Kit, Dual Side Inspection Kit, Right-to-left Configuration Kit, Dual Monitor Kit



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