




Bottom-Side
Inspection

3DAOI **TRONIK**[®]

AUTOMATED OPTICAL INSPECTION

TR7700QB SII SERIES

-  High Accuracy Bottom-side 3D AOI
-  Smart Library to Ease Inspection Programming
-  High Defect Coverage Inspection for THT/DIP



AI
Metrology
Inspection



57
cm²/sec
High Speed
Inspection



Real Time SPC
Trends



* Preliminary

Model		TR7700QB SII
Imaging System	Camera	12 MP High Speed Camera
	Optical Resolution	15 μ m
	Inspection Speed	57 cm ² /sec ⁽¹⁾
	Max. 3D Height Range	20 mm (0.79 in.)
	3D Technology Lighting	Quad Digital Fringe Projectors Multi-phase True Color LED
Pre-/Post-Reflow Inspection Functions	Component Defects	Missing, Tombstoning, Billboarding, Polarity, Rotation, Shift, Wrong Marking (OCV), Defective, Upside Down, Extra Component, Foreign Material, Lifted Component, Bridge, Pin Height
	Solder Joint Defects	Solder Fillet Height, Solder Volume %, Excess Solder, Insufficient Solder, Bridging, Through-hole Pins, Lifted Lead, Golden Finger Scratch/ Contamination
X-Y-Z Axis Control		Ballscrew + AC Servo with Motion Controller
X-Y-Z Axis Resolution		1 μ m with linear encoder
Min PCB Size		50 x 50 mm (1.97 x 1.97 in.)
Max PCB Size		510 x 510 mm (20.08 x 20.08 in.)
PCB Thickness		0.6 - 6 mm (0.02 - 0.24 in.)
PCB Transport Height		830 - 870 mm (32.68 - 34.25 in.) ⁽²⁾
Max PCB Weight		5 kg (11.02 lb)
PCB Carrier / Fixing		Step Motor Driven
Clearance	Top	100 mm (3.94 in.)
	Bottom	40 mm (1.57 in.)
	Edge	3 mm (0.12 in.), Optional: 5 mm (0.20 in.)
Weight		1030 kg (2,270.76 lb)
Dimension (W x D x H)		1100 x 1630 x 1600 (43.31 x 64.17 x 62.99 in.) (Without signal tower: 515 mm)
Power Requirement		200 - 240 VAC, 15 A, single phase, 50/60 Hz, 3 kVA
Air Requirement		72 psi - 87 psi (5 - 6 bar)
Optional Features		Barcode Scanner, Repair Station, Offline Editor, OCR, Yield Management System (YMS 4.0), Support Pin

(1) Depending on component distribution

(2) Optional: 900 mm or 940-965 mm (SMEMA compatible)

Global Network

Shenzhen, China shenzhen@cn.tri.com.tw
Suzhou, China suzhou@cn.tri.com.tw
Shanghai, China shanghai@cn.tri.com.tw
San Jose, USA triusa@tri.com.tw
Nuremberg, Germany trieuropa@tri.com.tw

Tokyo, Japan trijp@tri.com.tw
Ansan, Korea trikr@tri.com.tw
Penang, Malaysia trimy@tri.com.tw
Hanoi, Vietnam trivn@tri.com.tw

 德律 TRI INNOVATION®

© 2020 Test Research, Inc. All rights reserved.
 Specifications are subject to change.
 All other trademarks are the property of their respective owners.

C-7700QB SII-EN-2011

HEADQUARTERS

7F., No.45, Dexing West Rd., Shilin Dist.,
Taipei City 11158, Taiwan

☎ +886-2-2832-8918 ✉ Sales@tri.com.tw

www.tri.com.tw