

TROI™ Series (Color 3D Solder Paste Inspection System)

■ SPECIFICATIONS

Model		TROI-7700E		TROI-7700EL
2D/3D Vision Algorithm		2D : Vision Inspection Algorithm		
		3D : PMP (Phase Measuring Profilometry) Algorithm		
Measurements		Volume, Height, XY Position, Area		
Detection Types		Insufficient Paste, Excessive Paste, Shape Deformity		
		Insufficient Paste, Excessive Paste, Shape Deformity		
4MP	X/Y Pixel Resolution	10 μm	15 μm	20 μm
	Inspection Speed	13.6 cm^2/sec	32.73 cm^2/sec	58.4 cm^2/sec
	FOV (Field of View)	20.5 x 20.5mm	30.7 x 30.7 mm	41.0 x 41.0 mm
Height Range / Resolution		0 ~ 450 μm / 0.4 μm		
Height Repeatability		$\pm 1\%$ (3σ)*		
Volume Repeatability		$\pm 1\%$ (3σ)*		
Height Accuracy		2 μm *		
Typical Load/Unload		5 sec		
Max. PCB Warp		± 5 mm		
Gage R&R		< 10%*		
XY Servo Motor	Accuracy	$\pm 10\mu\text{m}$		
PCB Specification	Standard Type	Min. 50X50mm (2X2 Inch) Max. 330X250mm (13X10 Inch)	Min. 50X50mm (2X2 Inch) Max. 510X460mm (20X18 Inch)	
	PCB Thickness	0.4 - 7mm		
	Bottom Clearance	27mm		
	Conveyor System	SMEMA Standard, Auto Adjustable		
Installation Requirement	Electrical Requirements	220 – 240 VAC, 50/60 Hz		
	Air Requirement	5 Kgf/cm ²		
	Power Consumption	3kW (14.0A Max @ 220V AC)	4.5kW (20.0A Max @ 220V AC)	
Control Unit	Control Method	PC Based Control (Windows 7 64 bit)		
	Monitor	24" LED Panel		
Operating	Operating Temperature	20 - 30 °C (68 – 86 °F)		
Condition	Operating Humidity	30 - 80 % non-condensing		
Machine Dimension	Standard Type W x D x H	896 x 1070 x 1520 mm (35 x 42 x 60 inch) / About 600 kg (1323 lbs)	1080 x 1220 x 1520 mm (43 x 48 x 60 inch) / About 750 kg (1653 lbs)	
Systems	Statistical Analyses	Histogram, X Bar & R Chart, X Bar & S Chart, Cp & Cpk,		
		% Gage R&R Data,		
		SPI Daily / Weekly / Monthly Reports		
	Input Formats	GERBER format (274X, 274D), CAD		
Options		Multi Rack (NG-Buffer) / Barcode Reader (1D&2D) / Touch Panel / UPS (uninterrupted power supply) / Close Loop / Bad Mark		

* Above specifications are subject to change without notice due to products upgrades.



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