

KY-3020T



The Standard in 3D Measurement & Inspection

KY-3020T

Top-Quality Inspection, Tabletop Convenience

The full automatic KY-3020T packs superior Koh Young inspection technology into a compact, tabletop system that delivers precise, accurate SPI results while offering portability, convenience, and value.

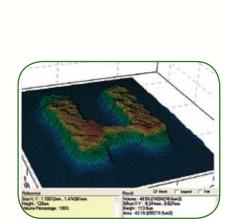
- True patented 3D volume measurement
- No shadows or specular problems
- Highest accuracy and repeatability
- Great starter system, or for R&D, small shops
- No PCB color sensitivity
- Tabletop, portable, flexible
- Great value to performance and fast ROI

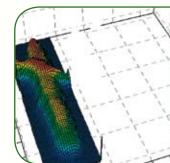


It's a great starter system, and the perfect SPI system for those with minimal volume requirements and small batch production. With the KY-3020T, you don't need to sacrifice inspection accuracy just because you don't need a high-production system.

Because it's Koh Young, world class quality and performance are built in.

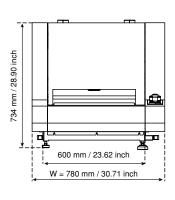
KY-3020T uses the same patented 3D shadowfree inspection as Koh Young in-line models, so you get 100% 3D Inspection of all pads, for flawlessly accurate and dependable results every time.

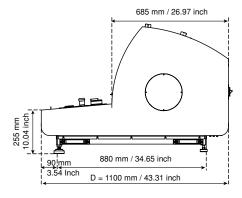




Remember, you can't optimize your printing process if you don't have reliable inspection data.

Get Started in SPI Right with the KY-3020T.





Max. PCB Size				
460 x 410 mm	18.11 x 16.14 inch			
Min. PCB Size				
50 x 50 mm	1.97 x 1.97 inch			
PCB Thickness				
0.4 ~ 4.0 mm	0.016 ~ 0.16 inch			
Max. PCB Weight				
2 kg	4.4 lbs			
Machine Weight				
95 kg	209 lbs			
Bottom Side Clearance				
30 mm	1.18 inch			
30 111111	1.10 111011			

Rapid Programming

Less than 10 min. programming for a complete inspection file, with NO fine tuning needed.

Accurate Compliance Solution

The only way to guarantee correct solder joint volume per IPC 610 requirements.

Best SPI Measurement Performance

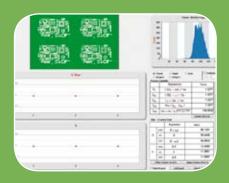
- <<10% GR&R at 6σ
- Volume repeatability < 1% at 3σ on a KY calibration target
- Average volume repeatability < 3% at 3σ on a PCB

PCB Warp? No Problem!

Unique real-time warpage tracking hardware and software ensures uninterrupted inspection of warped boards up to \pm 3.5 mm.

Detect all Defects

Including insufficient and excessive deposits, shape deformation, missing paste, paste offset, smearing, bridging and more.













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SPECIFICATIONS

Inspection Range				
Metrology Capability		Volume, Area, Height, Offset, Bridging and Shape Deformity		
Types of Defects		Insufficient/Excessive/Missing Past	nsufficient/Excessive/Missing Paste, Bridging, Shape Deformity and	
		Paste Offset		
Measurement Principle		3D Shadow Free Moiré		
Camera Technology				
Camera		1MPix		
XY Pixel Resolution		20 μm	0.79 mils	
Z Resolution		0.37 μm	0.015 mils	
Inspection Performance				
Inspection Speed at 20 µm		3 cm ² /sec	0.47 sq. inch/sec	
Volume Repeatability (on a KY Calibration Target)		< 1% at 3 σ		
Volume Repeatability (on a PCB)		$<\!3\%$ at 3σ		
Height Accuracy (on a KY Calibration Target)		<u>2</u> μm		
Gage R&R (± 50 tolerance)		<< 10 % at 6 σ		
Max. PCB Warp Compensation		± 3.5 mm	0.14 inch	
Max. Paste Height		<u>400 μm</u>	15.75 mils	
Min. Paste Deposit Size at 20 μm	Rectangle	<u>150 μm</u>	5.91 mils	
	Circle	200 μm	7.87 mils	
Min. Distance between Paste Deposit		100 μm (at 150 μm paste height)	3.94 mils (at 5.91 mils paste height)	
PCB Handling				
Conveyor Width Adjustment		Manual		
Conveyor Fix Type		Front/Rear Fixed (Factory Setting)		
Conveyor Height		N/A		
System & Installation requirements				
Supply Electrical		200~240VAC, 50/60 Hz Single phase		
	Air	N/A		
Operating System		Windows XP Professional		
S/W				
Statistical Analysis Tool		SPC Plus		
Inspection Program Generation		Import GERBER Data (274X, 274D)		
Options		ODB++ File Conversion		
		Handheld Barcode Reader (1D/2D)		
		Certified Calibration Target		
		• UPS		
		Above specifications are subject to chan	ge whithout notice.	