

Vi-1K Bench Top Automated Optical Inspection System



The **Vi-1K**, high performance bench top system, provides the optimum balance of speed and accuracy in an off line PCB inspection system.

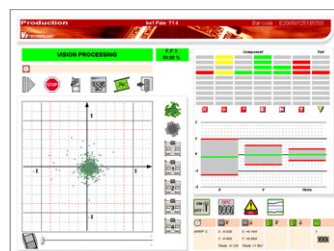
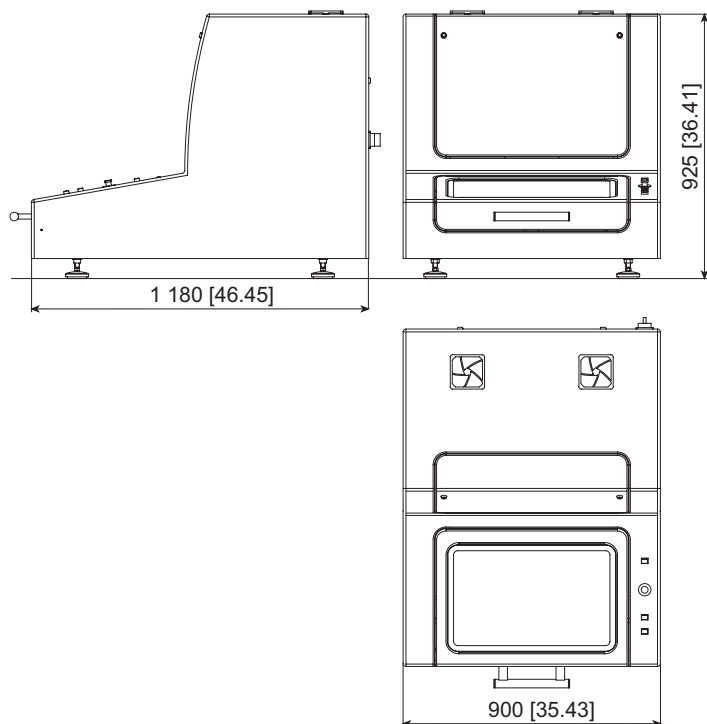
Driven by **Vision 2006** software, the **Vi-1K** is able to inspect:

- Solder paste
- Component X, Y and Theta deviation
- Component presence and absence
- Component polarity
- Solder joint and bridges
- OCV

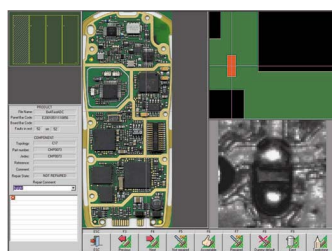
Rigid mechanical design of the **Vi-1K** ensures consistent accuracy, smooth and reliable operation.

Vi-1K Bench Top Automated Optical Inspection System

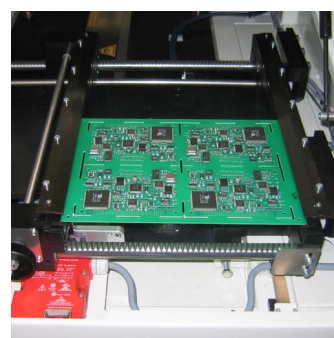
Dimensions in mm [inches]



Vision 2006 software, production mode screen



Integrated repair software allows real time defect classification



Board support with automatic clamping system

Specifications

Mechanical system	
Maximum board dimensions	508 [20] x 458 [18]
Board thickness (minimum to maximum)	0.5 to 5 [0.02 to 0.2]
Maximum board weight	3 kg [6.6 lb]
Maximum inspectable board area	508 [20] x 458 [18]
Minimum inspectable board area	50 [1.96] x 50 [1.96]
Clearance under camera	34 [1.33] (optional 40 [1.8])
Clearance under board	40 [1.8]
Clamping system edge	3 [0.12]
Board positioning	Board and panel fiducials
XY axis	Linear motors with precision optical encoders
Axis movement speed	0.5 m/s [19.7 in/s]
Axis movement resolution	0.2 μm
Vision system	
Vision system	Vectoral Imaging with sub-pixel technology
Camera resolution	Digital, 1376 x 1040
Pixel size	32 μm
Camera field size	44.5 [1.75] x 33.6 [1.32]
Programmable lighting systems	
Lighting colour	Green, white, blue
Lighting types	Axial and peripheral
Average inspection speed	
Average production	85 000 components per hour
Type of components inspected	0201 up to exotic
Software	
Operating system	WINDOWS XP
Vision 2006 software suite	Standard
Synthetic model library powered by Vectoral Imaging	Standard
Post reflow solder inspection with Profiler™ tool	Standard
Repair software	Standard
Supervisor software	Standard
E-maintenance software	Standard
For other options see AOI Systems Price List	
Communication	
Network	TCP/IP, RJ45 plug Modem 56 K for E-maintenance
Power supply	
Electrical supply	230 V, 50 / 60 Hz, 3.5A (Europe, Asia) 115 V, 50 / 60 Hz, 7A (USA)
Electrical consumption	850 W
Dimensions	
Width	900 [35.43]
Depth	1 180 [46.45]
Height	925 [36.41]
Weight	200 kg [440 lb]
Other characteristics	
Working temperature	10 - 35 °C
Humidity	5 - 80 %
Noise level	< 70 dBa
Options	
Hand held bar code reader	
Hand held data matrix reader	
Internal data matrix reader	Top
Bench with adjustable keyboard, LCD mount	
Embedded SPC tool	

ViTechnology® is a registered trademark of ViTechnology. All products and brands, named in this document, are trademarks by their respective owners. Specifications subject to change without notice.

Europe
Tel. : + 33 (0)4 76 75 85 65
Fax : + 33 (0)4 76 75 05 19

Asia / Pacific
Tel. : + 65 6747 6550
Fax : + 65 6747 6558

The Americas
Tel. : + 1 978 372 1230
Fax : + 1 978 372 1767

ViTECHNOLOGY®

E-mail: info@vitechnology.com - Internet: www.vitechnology.com