

9K

Heavy & large PCB AOI solution

The **9K SPECTRO** is based on Vi TECHNOLOGY® new lighting system delivering a high quality color image. Main benefits are increased test coverage and accuracy, and inspection time reduction.

The 9K series is designed for high-end application employing heavy and thick PCBAs up to 15 kg. It can also be equipped with the Vi-292 long board inspection option, enabling inspection of PCBAs up to 40" x 24". Double stop sensors and conveyor extensions are added to enable inspection in 2 steps.



Superior image quality
for review/repair operations

Easy
programming

Improved test coverage
on MELF package and specific
defects (lifted leads, billboards,...)

Reduced inspection time
with massive parallel computing

Excellent accuracy
GR&R ($\pm 50\mu\text{m}$) < 5%

Heavy and large PCBs
management



Specifications

Technology

Camera	8 M Pixel, 12 bits CCD
Inspection resolution (Sub-pixel technology)	4.75 μ m
Optics	Telecentric lens
Field of view dimensions	61.1 x 44.9 mm ² (2.40" x 1.76")
Lighting colors	SPECTRO (White, Red, Blue)
Lighting types	Axial and peripheral with holographic diffuser
Components inspected per hour	480 000
Type of components inspected	01005 up to exotic & large

Software Suite

Vision integrated software suite	Vision20
Off-line programming software	Optional
Off-line repair software	Standard
Standard Library based on JEDEC packages	Standard

Computing system

Operating system	WINDOWS XP Service Pack 3
Processor	Intel Core i5 4-Core, 4GB memory
Network	TCP/IP, RJ45 plug

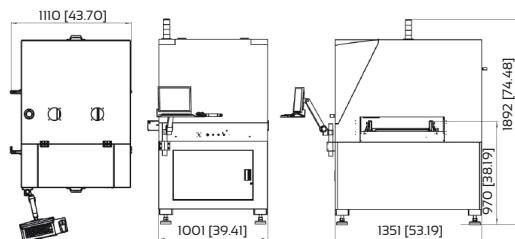
PCB handling

Minimum PCB dimensions	50 x 50 mm ² (2" x 2") (L x W)
Maximum PCB dimensions	533 x 610 mm ² (21" x 24") (L x W)
	1016 x 610 mm ² (40" x 24") with Vi-292 option
Board thickness	0.5 - 15 mm
Maximum PCB weight	15 kg
Minimum edge clearance	5 mm
Top clearance	34 mm
Bottom clearance	60 mm
Board positioning	Board and panel fiducials Linear motors and encoders
XY table	
Frame type	Pre-stressed frame
Conveyor width adjustment	Automatic

Facilities

Interface	SMEMA 2 (IPC 9851)
Power requirements	115 V / 60 Hz / 16 A, 230 V / 50 Hz / 10 A
Machine dimensions W x D x H	1110 x 1351 x 1892 mm (W x D x H)
Weight	900 kg
Transport height	870 - 970 mm

Dimensions



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