



Dual lane AOI solution

The **8K 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 8K series offers large-board capabilities up to 21" x 12,8" for each of the two lanes and supports the latest generation of pick-and-place machines.

The multi-segment dual lane conveyors respond to floor-space constraints as well as AOI productivity concerns in a cost/quality-optimization mindset.

Combined with Vi-246 dual lane review conveyor, it offers a complete solution for board inspection and in-line defects classification.



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%

Multi-segment dual-lane
conveyors supporting the latest
generation of P&P machines



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	O1005 up to exotic & large

Software Suite

Vision integrated software suite	Vision64
Off-line programming software	Optional
Off-line repair software	Standard
Standard Library based on JEDEC packages	Standard

Computing system

Operating system	WINDOWS Seven 64 bits
Processor	Intel Core i5 4-Core, 8Gb memory
Network	TCP/IP, RJ45 plug

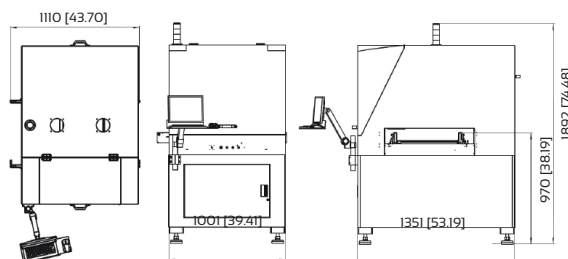
PCB handling

Minimum PCB dimensions	50 x 50 mm ² (2" x 2") (L x W)
Maximum PCB dimensions (dual lane mode)	2x 533 x 325 mm ² (21" x 12,8") (L x W)
Maximum PCB dimensions (single lane mode)	533 x 600 mm ² (21" x 23,6") (L x W)
Board thickness	0.5 - 4 mm
Maximum PCB weight	3 kg
Minimum edge clearance	3 mm
Top clearance	34 mm
Bottom clearance	60 mm
Board positioning	Board and panel fiducials
XY table	Linear motors and encoders
Frame type	Pre-stressed frame
Conveyor width adjustment	Automatic
Rail 1 to Rail 4 maximum distance	690 mm
Rail 2 to Rail 3 minimum distance	35 mm

Facilities

Interface	SMEMA 2 (IPC 9851)
Power requirements	230 V / 50 Hz / 10 A, 115 V / 60 Hz / 16 A (option)
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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