



# Compact AOI solution

The **2K SPECTRO** is a fast and compact inspection and process control solution designed to meet the challenges of miniaturization in high throughput SMT environments.

The Vi TECHNOLOGY® new lighting system offers a high quality color image with increased test coverage and accuracy, and reduced cycle time for PCBs up to 14"x 14".

It delivers the optimum leading edge Vi TECHNOLOGY® inspection technologies in a compact and affordable solution.



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

100% defect detection  
at a high throughput

Compact system  
with small footprint



# Specifications

## Technology

Camera	8 M Pixel, 12 bits CCD
Inspection resolution (Sub-pixel technology)	4.75 µm
Optics	Telecentric lens
Field of view dimensions	61.1 x 44.9 mm <sup>2</sup> (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

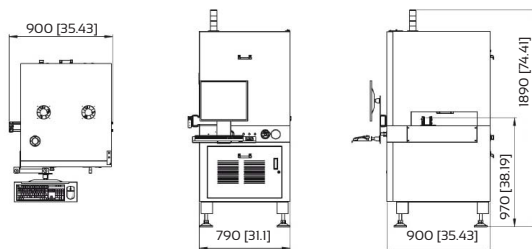
## PCB handling

Minimum PCB dimensions	50 x 50 mm <sup>2</sup> (2" x 2") (L x W)
Maximum PCB dimensions	355 x 355 mm <sup>2</sup> (14" x 14") (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

## 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	900 x 900 x 1890 mm (W x D x H)
Weight	700 kg
Transport height	870 - 970 mm

## Dimensions



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