

# 5K

## High speed AOI solution

The **5K 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 5K series offers board size flexibility, accuracy and repeatability. It has been designed with best-in-class hardware and software technologies to secure high-quality inspection and a maximized throughput.



**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%



## Specifications

### Technology

Camera	8 M Pixel, 12 bits CCD
Inspection resolution (Sub-pixel technology)	4.75 $\mu$ m
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

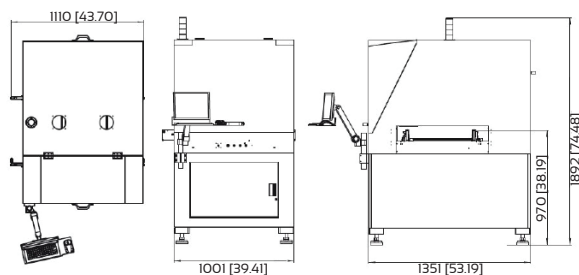
### PCB handling

Minimum PCB dimensions	50 x 50 mm <sup>2</sup> (2" x 2") (L x W)
Maximum PCB dimensions	533 x 609 mm <sup>2</sup> (21" x 24") (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	1110 x 1351 x 1892 mm (W x D x H)
Weight	900 kg
Transport height	870 - 970 mm

## Dimensions



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