

Dual lane advanced inspection & metrology 3D AOI solution

8K3D is a powerful 3D system leveraging Vi TECHNOLOGY's 25 years experience.

The 8K series offers large-board capabilities up to 17" x 12.8" for each of the two lanes and supports the latest generation of pick-an-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.

Benefits range from unprecedented test coverage accurate metrology capabilities to high flexibility for all types of applications including automotive, aerospace or consumer. With unprecedented scalability, 8K3D is the ideal system to your upcoming challenges.



Multi-segment dual-lane

Unprecedented test coverage

Excellent accuracy and repeatability

Superior image quality



Specifications

Inspection Technology

Camera	8 M Pixel, 12 bits CCD
3D Sensor	Blue laser (*) with 2 angular cameras
Optics	Telecentric lens
Field of view dimensions	61.1 x 44.9 mm ² (2.40" x 1.76")
Lighting colors	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	Vision3D
Vision Off-line programming software	Optional
Off-line / In-line repair software	Optional
Standard Library based on JEDEC packages	Standard
Off-line SIGMA analysis	Optional
Off-line SIGMA Import CAD data	Standard

System

Operating system	WINDOWS 7, 64 bits
Processor	Intel Core i7 8-Core, 32Gb memory
Storage capacity	500 GB SATA3
PCB positioning	Board and panel Fiducials
Motion & control	Linear motors with optical encoders

Options

External barcode reader (1D/2D)	Cognex DM100, compatible with major barcode readers
Internal barcode reader (1D/2D)	Yes
Others	Consult us

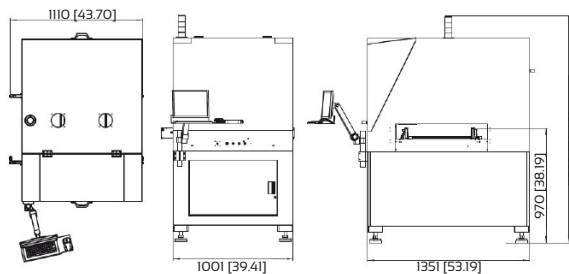
PCB handling

Conveying height	860 - 960 mm
Minimum PCB dimensions	50 x 50 mm ² (2" x 2") (L x W)
Maximum PCB dimensions (dual lane mode)	2 x (432 x 325) mm ² (17" x 12,8") (L x W)
Maximum PCB dimensions (single lane mode)	432 x 600 mm ² (17" 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

Facilities

Interface	IPC - SMEMA - 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	820 kg
Operation temperature	15°C to 30°C
Relative humidity	20 - 75% (without condensing)
Network	TCP/IP, RJ45 plug

Dimensions



Vi TECHNOLOGY

Europe

France
Tel: + 33 4 76 75 85 65
Fax: + 33 4 76 75 05 19

Asia

Singapore
Tel: + 65 6747 6550
Fax: + 65 6747 6558 China
Tel/Fax: + 86 755 82124147

America

United States
Tel: + 1 972 235 1170
Fax: + 1 972 235 1171

8K 3D EN Rev 01 04-2017

(*) K3D equipments are class I laser products, according to IEC60825-1:2014-1 standard. Please refer to specific Vi TECHNOLOGY instructions regarding operation & maintenance.