



Vario Line, Vario Line·3D

3D/2D/360° AOI system

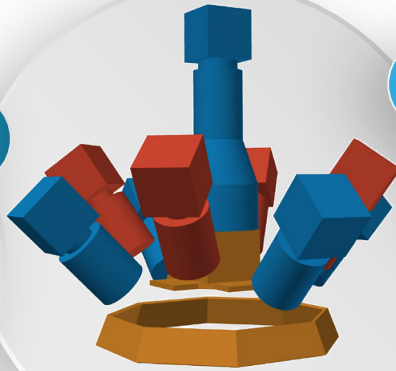


- flexible AOI system with maximum fault detection through combined 3D/2D technologies
- individual system integration in the manufacturing process through variable data interfaces
- automated AOI test program generation with MagicClick in combination with camera module 3D·ViewZ

Technical specification

Vario Line - 3D/2D/360° AOI system

Vario Line
3D/2D/360°
AOI system



Camera module 3D-ViewZ



IPC-HERMES-9852
The global standard for "AOI" in SMT assembly

Variable configurations

- camera module 3D-ViewZ with different speed variants
- laser height measurement system
- extended inspection area

Maximum fault detection

- excellent image quality of orthogonal camera and angled-view cameras
- unique multi-spectral / multi-directional illumination
- 360° angled-view inspection with adapted focal plane

MES/Industry 4.0

- flexible data interface for MES and traceability
- data management and comprehensive fault analysis via PILOT Connect
- data import from third-party inspection systems for verification and evaluation



Inspection parameters	Data
2D orthogonal inspection	orthogonal camera with pixel adapted optics and telecentric lens image acquisition with up to 48 megapixel technology and 24 bit color depth
2D angled-view inspection	angled-view cameras with viewing angle of 45° and adapted focal plane up to 360 inspection directions image acquisition with up to 48 megapixel technology and 24 bit color depth for each camera
3D measurement	with camera module 3D-ViewZ technical data: see extra data sheet
x/y resolution (2D)	12 µm
illumination	multi-spectral, multi-directional
component clearance above PCB	40 mm
component clearance below PCB	50 mm
inspection speed	up to 100 cm ² /s
max. inspection area	520 mm (900 mm optional) x 500 mm 330mm (3-segment operation)
max. PCB weight	5 kg

System specifications	Data
inline interface	SMEMA, Siemens, Hermes
assembly transport	1 segment / 3 segments (optional)
transport direction	left-right, right-left, left-left, right-right
max. PCB width	510 mm
min. PCB width	80 mm (50 mm optional)
power requirement	230 V AC / 1.2 kVA; 6 bar compressed air, consumption < 20 l/h
dimensions (W x D x H)	1200 mm x 1450 mm x 1650 mm
weight	approx. 950 kg