



Vario Line, Vario Line·3D

2D/3D/360° AOI system

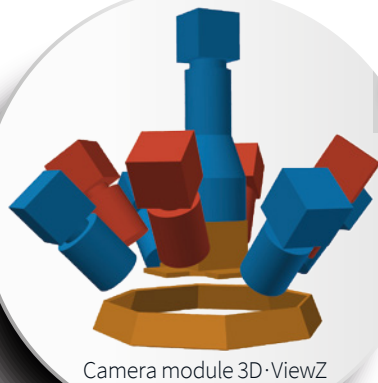


- flexible AOI system with maximum fault detection through combined 3D/2D technologies
- individual system integration in the manufacturing process through variable data interfaces
- automated AOI test program generation with MagicClick in combination with camera module 3D·ViewZ

Technical specification

Vario Line - 2D/3D/360° AOI system

Vario Line
2D/3D/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) | 15 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 | 570 mm (920 mm optional) x 510 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 |

🇩🇪 Made in Germany

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