

modus AOI S1-IDA

modus AOI S1-IDA enabled simultaneous automatic optical inspection of both sides (top and bottom) of printed circuit board in one step.

It is equipped with two multi-LED illuminated scanner units as well as two patented special lenses which generate parallax free pictures. The AOI includes two modus system PCs with the proprietary modus inspection software. For an easy integration into the production line modus AOI is embedded inside an ASYS transport module (other supplier on request).



Features:

- Double-sided simultaneous inspection of PCBs.
- Combination of diverse inspection tasks such as SMD placement, THT solder joints, conformal coating and full screening for solder bead (solderballs).
- Capture of barcode and data-matrix codes in any position and quantity on the multi PCB.
- Simultaneously display of all results of both sides.
- Scan range 420 x 550 mm (16.53 in./21.65 in.).

Technical Data:

Scanunit:

- resolution: 600 – 1200 dpi
- RGB-color filter on CCD-line sensor, Color intensity 3 x 12 bit interior, 3 x 8 bit external
- Light source: multi-LED-illumination
- Solder meniscus control with red illumination under 45°,
- optional switchable, white and red LEDs
- pulse width modulation brightness control
- Achromatic lens for the parallax free display

System-PC:

- Intel Core 2 Quad 2,83 GHz, 8 GB RAM, DVD-burner, network adaptor 2 x 1 Gb/s, I/O card, 1 TB hard disc, Windows XP 64, keyboard, mouse, block keyboard, 19" TFT-screen

Operating range and resolution:

- Scan range 420 x 550 mm (16.53 in./21.65 in.) at 1200 dpi
- Test speed: independent of the number of parts: 23 seconds

Transportsystem and Inline-Integration:

- System independent interface definition for conveyer belt
- standard-inline system with ASYS-conveyer belt soft stop
- clamps from above
- double system for simultaneously inspection from below and above
- various options and customized solutions can be realized

Dimension and weight:

- 1060 mm (59.0 in.) or 1590 mm (62.6 in.) x 1200 mm (47.2 in.) x 1300 mm (51.2 in.) (lxwxh)
- Weight: approx. 560 kg / 1232 lbs.

Connected values and setting conditions:

- 230 V / 50 Hz or 110V / 60 Hz
- power consumption of scanner 750 W
- temperature: 5° C - 35° C
- humidity: 10 % - 80 % non-condensing