

modus AOI 1200-IDA, Standard modus AOI 1200-IDA-UV for conformal coating

modus AOI 1200-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)

Our production process ISO 9000 also includes a declaration of conformity.



Features:

- Double-sided simultaneous inspection of the 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 310 x 410 mm (11.8 in./15.8 in.).

Technical Data:

Scanunit:

- resolution: 600 – 1200 dpi
- RGB-color filter on CCD-line sensor, Color intensity 3 x 12 bit internal, 3 x 8 bit external
- Light source: multi-LED-illumination
- Solder meniscus control with red-blue illumination under 45°,
- optional switchable, white, red and blue LEDs, UV 365nm optional for conformal coating test
- pulse wide modulation for brightness control and achromatic lenses for the parallax free picture

System Controllunit:

- Intel I5 3.3GHz, SSD Systemdisc, 16 GB RAM, DVD-burner, networkadaptor 2 x 1 Gb/s, 3 TB hard disc, Windows 7 professional 64Bit OS, keyboard, mouse, block keyboard, 19" TFT-screen, optional I/O card

Software:

- professional inspection software modus AOI 9.9 or higher
- Full functionality as follows:
 - clear service with display of error position and display of error and comparison picture
 - intuitional programming with graphic surface
 - powerful and flexible test algorithmen
 - integrated statistics, traceability
 - integration in funktion tests with open interface

Operating range and resolution:

- Scan range 310 x 410 mm (11.8 in./15.8 in.) at 1200 dpi - Clearance TOP max 40mm
- Test speed: independent of the number of parts: 25 seconds incl. calculation time (without handling time)

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.) (lwxhx)
- Weight: approx. 450 kg (990 lbs.)

Connected values and setting conditions:

- 230 V / 50 Hz / 1Ph or 110V / 60 Hz, power consumption of scanner 650 W
- temperature: 5° C - 35° C
- humidity: 10 % - 80 % non-condensing

subject to amendments errors (Image like wise)