

## modus AOI 1200-DS, Standard modus AOI 1200-DS-UV for conformal coating

The offline system (double-user mode) modus AOI 1200-DS 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 generates a parallax free picture.

The AOI includes the modus system PCs with the proprietary modus inspection software.

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

### Features:

- Single system for the inspection of the PCBs top side.
- 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.
- 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 grafic 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 )

#### PCB Fixture:

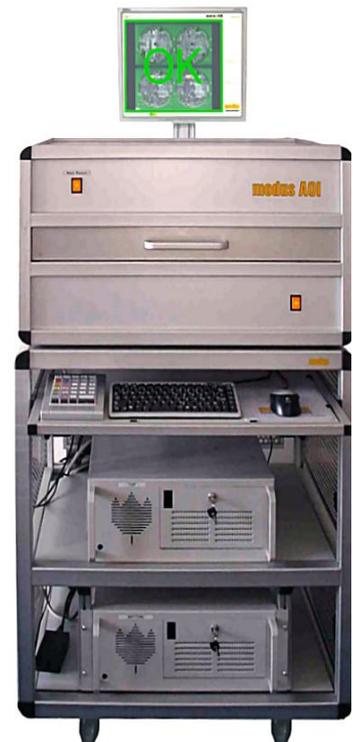
- Double system with drawer and variable staircase like fixture (magnetically adjusted)
- Closing the drawer automatically starts the check
- Various options and customized solutions can be realized

#### Dimension and weight:

- Desktop system 760 mm (29.9 in.) x 590 mm (23.2 in.) x 490 mm (19.3 in.) (l x w x h)
- Weight: approx. 80 kg (176 lbs.)

#### Connected values and setting conditions:

- 230 V / 50 Hz / 1Ph or 110V / 60 Hz, power consumption of scanner 450 W
- temperature: 5° C - 35° C
- humidity: 10 % - 80 % non-condensing



subject to amendments errors ( Image like wise)