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

The offline system (single-user mode) modus AOI 1200-OS for the printed circuit board inspection from above has a multi-LED illuminated scanner unit as well as a patented special lens which generates a parallax free picture.
The AOI includes one modus system PCs with the proprietary modus inspection software.

Features:

- Single system for the inspection of the PCB topside.
- 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 300 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 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, networkadaptor 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 300 x 410 mm (11.8 in./15.8 in.) at 1200 dpi
- Test speed: independent of the number of parts: 23 seconds

PCB Fixture:

- Single 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 x 590 mm [29.9 in. x 23.2 in.] height 270 mm [10.6 in.]
- Weight: approx. 60 kg (132 lbs)

Connected values and setting conditions:

- 230 V / 50 Hz or 110V / 60 Hz
- power consumption of scanner 300 W
- temperature: 5° C - 35° C
- humidity: 10 % - 80 % non-condensing