

modus AOI 1200-IOA, standard
modus AOI 1200-IOA-UV, for conformal coating

The modus AOI 1200-IOA 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. For an easy integration into the production line modus AOI is embedded inside an ASYS or NUTEK transport module (other supplier on request).

**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 or UV-LED (365nm or 400nm)
- 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

Transportsystem and Inline-Integration:

- System independent interface definition for conveyer belt
- standard-inline system with ASYS-conveyer belt soft stop
- clamps from 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. 400 kg (882 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