

Mek at IPC Apex 2022. Inspect your assembly from start to finish...



Mek (Marantz Electronics), a leading provider of Automatic Optical Inspection solutions, will present a multitude of innovative solutions for the inspection of assemblies at the IPC Apex exhibition in San Diego, 25th – 27th January 2022. A range of THT AOI, SMT AOI & manual assembly AOI systems for every step of your

manufacturing processes can be witnessed on Booth 2725.

For those requiring visual inspection at manual and semi-automated SMD and THT work stations, the new Mek [VeriSpector Assembly Station AOI](#) allows manufacturers to perform real time assembly and placement inspection and prevent defects before they move into line and onto the next process. This instant feedback to operators helps eliminate the risk of failures and increase the quality and effectiveness of manual and semi-automatic manufacturing processes, delivering significant yield improvements. Although optimized for PCB Assembly tasks, the system is also ideal for use in other disciplines.

Also being demonstrated at the show is the [desktop iSpector JDz 350](#), an entry-level AOI-system which delivers the fastest return on investment for EMS customers that seek optical flexibility, easy programming & usage and the highest inspection performance guarantees.

The iSpector JDz AOI systems feature a 5 megapixel camera. In combination with coaxial lighting and the 3D meniscus profile, the machines can inspect whether a PCB has good solder, no solder, lack of solder or excess solder for both SMT and THT solder joints, by its meniscus profiling algorithms.

The JDz uses a [Z-axis](#) for maximum flexibility in THT inspection. The Z-axis enables inspection of objects at different height levels such as sandwiched PCB's, tall components or positional measurement of tall connector pins. The Z-Axis can move the complete inspection head equipped, including the coaxial lighting system, resulting in a large Field of View of 36.0mm x 30.0mm and 15µ resolution.

Completing the line-up of inspection solutions on the booth is a demonstration of the modular [SpectorBOX AOI system](#). The SpectorBOX module for self or 3rd party integration is uniquely engineered to accommodate solder frames on return and/or feed conveyors. The system allows inspection of bottom side, top side, simultaneous dual side inspection or conformal coating inspection, deploying up to 18 cameras, Z axis positioning and auto-focus. [SpectorBOX GTAz Bottom-Up AOI](#) is optimized for the inspection of THT solder joints to identify defects such as presence/absence of solder, wetting problems, meniscus shape, pin insertion problems, bridges. Defect review is operator friendly with automated 9-image microscopic presentation for classification and repair. [SpectorBOX JUz CCI](#) is the ultimate solution for conformal coating inspection. It can be used after manual spray, automatic spray and dip coating applications. The system is able to provide coating defect detection covering the components and around the components. Bubbles and other contaminations can also be detected.

The [Nutek Main Frame](#) allows easy integration of one or two SpectorBOX modular AOI systems into the production line. On single or dual level conveyers.

—

For more information on Mek and the entire range of products visit www.marantz-electronics.com, or visit us at booth 2725, where we can discuss your application requirements.

-ENDS-

MEK Americas LLC Contact	Agency Contact
Austin Jones Mek Americas LLC 5505 Johns Road Ste 709 Tampa FL 33634, USA	Helena Osborn Protean Inbound Thames Valley Park, 400 Thames Valley Park Drive, Earley, Reading, RG6 1PT, UK

Tel: +1 702 660 6112

Email: austin.jones@mek-europe.com
www.marantz-electronics.com

Tel: 44 (0) 118 370 6015

Email: helena@proteaninbound.com
www.proteaninbound.com