

Mek turns AOI On Its Head with Apex New Product Launches



[Mek \(Marantz Electronics Ltd\)](#), will showcase several new additions to its line-up of AOI systems at this month's Apex, including the new SpectorBOX "Bottom-Up" Modular system specially engineered for wave and selective solder THT and SMT manufacturing.

The Mek team will be on hand at Booth 115 to deliver live demonstrations of the SpectorBOX which is designed to accommodate solder frames on return and/or feed conveyors. [SpectorBOX](#) offers bottom side, top side or simultaneous dual side inspection replacing traditional board flipping alternatives in less space and at lower cost. With its totally new mechanical platform, it is the only modular AOI in the market that can be equipped with 9 cameras, including an optional Z-axis moveable head to precisely position and focus for varying PCB distance and warpage. With its general purpose I/O, SpectorBOX can be simply interfaced with existing or new conveyor systems.

Also on display will be the [PowerSpector 350 desktop AOI with FDAz inspection head](#), which introduces a new era in capture quality. The FDAz inspection head enables [9 Camera AOI](#) featuring [Tilt- Shift & Telecentric optics](#) with [automatic Z-axis](#). 8 Side cameras in 10 μ resolution with Tilt-Shift optics technology ... familiar in architectural photography... reduce image distortion to enable the best capture possible. A moveable head in Z-Axis brings objects into optimal focus and position, independent of PCB thickness or warping. In combination with the HD 18.75 μ or 10 μ resolution top camera with Telecentric optics and unique multiplexed 8x CameraLink side camera technology, unprecedented defect visibility is achieved.

Automatic Solder Paste Inspection leaped forward with the introduction of [Mek 5D SPI PowerSpector S1mkII](#). Its patented advanced sensor technology with simultaneous [3D and 2D inspection](#) lowers SPI process tolerances to unmatched levels and extends SPI capabilities beyond any offered by 3D alone. True area, shape, volume, offset and height measurements are provided in combination, providing genuine process control and a perfect tool with which to adjust printer settings before a problem spreads throughout an entire production run.

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About MEK (Marantz Electronics Ltd)

A former division of Marantz well known for its high quality Audio/Video products, MEK Japan (Marantz Electronics Kabushiki Kaisha), developed its first AOI system in 1994. Developed to inspect PCB assemblies for correct component placement and soldering, the company's original AOI system was designed for use in Marantz factories. Proving to be a highly successful, cost-effective alternative to traditional human inspection, MEK developed its first generation commercial system in 1996. With a steadily growing installed base, MEK Japan and its European/American headquarters, MEK, have sold over 5000 units worldwide to date. Now well established as a leading force in AOI technologies, the company recently launched a 5D post-print SPI system which combines 3D and 2D image processing methodologies to deliver unprecedented defect detection. At the beginning of March 2014 the company opened US offices in Las Vegas.

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