

## Mek will Showcase Its Widest Range of AOI Offerings Ever at Productronica 2015



Mek (Marantz Electronics), will showcase its most comprehensive range of AOI systems in the company's history with a raft of new products to be debuted at the show.



The Mek team will be on hand **at Stand 500, Hall 2**, to host live demonstrations that validate the company's promise of genuinely unique AOI capability across a very wide range of applications and budgets.

The completely new [Mek ISO-Spector](#) is an AOI system of 'true measurement' for the full across-the-board inspection of components and solder joints. Unlike other methods of height measurement, ISO-Spector technology enables inspection of heights up to 30 mm (1.2"), and is completely immune to vibrations from nearby placement machines. It is able to inspect the world's smallest chip size of 008004 (50% of 01005") and features a full profile simultaneous 2D and 3D inspection while maintaining high inspection speed using patented sensor technology.

Also new is [Mek SpiderEye](#), a static AOI system for the automated inspection of moving objects. It features eight, high frame rate colour cameras operating simultaneously, each with their own controlled LED light source. All image capturing devices are controlled by proprietary, state-of-the-art electronics and programmed by a single computer and controller with the same 22X powerful software engine as Mek

AOI machines. Mek SpiderEye utilises just a single software interface to control and program all eight cameras – no need for multiple inspection programs.

Mek's desktop solutions offer benchtop PCB inspection with exceptional defect coverage. The new [iSpector](#) is an entry level machine for manufacturers requiring high-quality AOI with a low price tag. Providing a rapid, repeatable inspection process at an affordable cost, it's a plug-and-play installation with iMentor online training and is exceptionally easy-to-program.

Among the other product highlights is the [SpectorBOX "Bottom-Up / Top-Down" Modular AOI system](#) uniquely engineered to accommodate solder frames on return and/or feed conveyors. SpectorBOX offers bottom side, top side or simultaneous dual side inspection, deploying up to 18 cameras, Z axis positioning and auto-focus. Optimized for the inspection of THT components to identify defects such as presence/absence, wrong polarity, colour, type, and bent pins, now, the unique top clearance of 130mm (5.12") allows the Top Down SpectorBOX to inspect virtually any completed electronic and electro-mechanical assembly -- even when the tallest of components are present.

As well as the new launches, Mek's flagship [PowerSpector AOI](#) will be featured on the stand. The PowerSpector AOI stands out in situations where production quality is the top priority. It reliably inspects SMT and THT component bodies for presence/absence, type, polarity, offset, text, colours etc. and components' solder fillets for excessive, insufficient or no solder, shorts, and lifted leads. Combined with Catch yield enhancement software, Mek PowerSpector AOI is a completely closed loop, powerful process monitoring and quality control tool.

We look forward to welcoming visitors to our stand. Find out more at [www.marantz-electronics.com](http://www.marantz-electronics.com)

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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 also manufactures 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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