

## **Mek Will Showcase Full Metrological 3D AOI Among Their Wide Range of AOI Technology At Productronica**



Mek (Marantz Electronics), will showcase a comprehensive range of AOI systems at this year's Productronica, featuring the latest in 3D inspection technology. The Mek team will be on hand at [Hall A2 stand 402](#) to host demonstrations of unique AOI capability across a very wide range of applications and budgets.

[Mek ISO-Spector M1](#), a metrological AOI system of true measurement, delivers full, across-the-board height profile measurement and inspection. Carrying the industry's largest, 25 mega pixel sensor and 69 x 69mm FoV the M1 delivers ultra-high speed inspection of even 008004 components, leads and solder joints. Multiple Moiré fringe projections enable high precision, shadow free measurement of heights up to 30 mm as well as 4 fully programmable side view high-res cameras able to actively inspect J-leads and other devices invisible to top side imagers.

Other product highlights at the show include the [SpectorBOX GTAz 550](#). This "Bottom Up/Top Down" system is 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. The design is optimized for the inspection of THT components to identify defects such as presence/absence, wrong polarity, colour, type, and bent pins. Various integration alternatives are greatly enhanced by its slim, compact mechanical design.

The new entry level iSpector JDz 520 boasts high specifications, including a 5 mega pixel camera, 15 micron telecentric lens, Co-Axial light and 520 x 460mm max. PCB size. This bench top powerhouse uses same high speed programming software as the PowerSpector series of machines.

Simultaneous 3D and 2D (5D) Solder Paste Inspection on the ISO-Spector S2 is made possible with patented, third generation sensor technology. Shadow free violet/blue dual lasers ensure accurate and repeatable 3D measurements while episcopic and low angle diffuse RGB lighting creates the highest quality of 2D colour imaging available today.

Mek [SpiderEye](#) Machine Vision systems are static AOI machines for the inspection of moving objects. Inspection and quality control tasks traditionally performed by humans or inflexible mechanical procedures can be fully automated for increased throughput, lower defect counts and to generally boost productivity and profitability. This another unique machine vision solution, including powerful algorithms for THT solder joint inspection with meniscus profiling, and myriad integration alternatives.

All these and more can be seen and operated at the Mek Productronica Stand A2/402. The team looks forward to welcoming visitors and in the meanwhile find out more about Mek 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 6000 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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