

## **Mek has it all covered: Introducing ISO-Spector, Inline 3D Topographical & Imaging AOI**



*ISO-Spector*

The completely new ISO-Spector from leading AOI manufacturer Mek (Marantz Electronics), 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 practically immune to vibrations from nearby placement machines which might otherwise cause blurry images and therefore inaccurate and non-repeatable results during production. 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.

The image capturing sensor has a massive 12 Mega Pixel resolution with optical fibre interface. The ISO-Spector enables accurate height measurement by using front & rear, close to vertical, high energy, high-end violet lasers. These lasers, combined with proprietary algorithms, result in the minimization of blind spots (shadow) and the effect of reflecting objects. Warped PCB's up to 4 mm (160 mils) are compensated for on the fly by the Z-axis and complex compensation algorithms.

Unique for these type of inspection systems, the ISO-Spector can be programmed and debugged offline using the offline programming and debugging stations.

The 3D AOI system is ergonomically designed and operated via a full touch screen.

ISO-Spector integrates fully with the FIBER system for classification, repair, traceability and SPC.

Find out more: [www.marantz-electronics.com/3d-inline-aoi-systems/](http://www.marantz-electronics.com/3d-inline-aoi-systems/)

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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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