

Mek (Marantz Electronics) Launches New Entry-Level Inline AOI Systems



Marantz Electronics is proud to announce the launch of their latest generation Mek iSpector inline Automatic Optical Inspection system. This entry-level system is specifically designed to cater to customers with low volume, high mix production, who require high-quality AOI solutions without breaking the bank.

The iSpector system utilizes DOAL, main and side LED light sources from three different angles, creating a meniscus profiling light pattern that allows for the inspection of component bodies and solder joints. The system is equipped with Mek Colour Histogram analysis, which provides accurate and reliable inspection results with low false calls.

Offering a rapid and repeatable inspection process at an affordable cost, the iSpector is a lead screw and servo drive AOI system that combines high performance with the lowest cost of ownership. The system is easy to install, and the Mek iMentor online training program makes it exceptionally easy to program.

The iSpector utilizes software that has been continuously developed by Mek and proven in the market for almost 30 years. It has a clean and simple interface with powerful features, including full programming capabilities for solder inspection, component presence/absence, polarity, and value. The system's Z-axis allows for the inspection of taller components and hybrid PCBs, and users can import NC Data from their pick and place system or most popular CAD/CAM software.

To provide fast programming times and reliable results with low false fails, iSpector users can also take advantage of Mek's extensive custom libraries. Furthermore, the iSpector series is fully compatible with Mek's Catch System, which offers full traceability and industry

4.0 readiness. Catch comprises modules such as Database CS Center, CS Repair, CS Analyser, and CS Watch, and it is fully scalable from single AOI stations to multiple machines.

"We are excited to introduce the iSpector system to our customers," said Henk Biemans, Managing Director for Mek. "We understand the importance of providing high-quality AOI solutions that are affordable and easy to use, and the iSpector is the perfect solution for customers with low volume, high mix production. With its powerful features and compatibility with Mek's Catch System, we are confident that our customers will be able to take their production processes to the next level."

For more information on Marantz Electronics' new entry-level inline AOI systems, please visit their website at <https://marantz-electronics.com/ispector-idz-inline/>

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 8000 units worldwide to date. Well established as a leading force in AOI technologies and 5D post-print SPI systems, the company now also manufactures Conformal Coating Inspection systems drawing on the proven technology.

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