Marantz Launches PowerSpector

AOI specialist Marantz Business Electronics is launching its new PowerSpector, a powerful new AOI system which will take the performance of Marantz's acclaimed DL Series of AOI systems to a new level.

With Apple Mac controllers at their heart, all Marantz AOI products are renowned for their exceptional graphics processing capability. But PowerSpector adds new generation of fully re-engineered optics, which includes a custom image sensor plus proprietary lenses and lighting technology.

Analysis from any AOI system can only be as good as the quality of the image captured. That's why Marantz leaves no stone unturned in its quest for outstanding image quality. The evidence is clear in the superior results PowerSpector delivers from its new optics, providing detailed analyses of high resolution image data captured and processed in full 24-bit colour. The optical improvements mean faster inspection, faster programming and better defect detection.

The new PowerSpector system surpasses even Marantz's own DL Series by offering a DOAL line light source for improved image contrast and signal dynamics, a multi-angle lighting system with meniscus profiler and a 70% larger field of view (FoV). In all, this delivers a 25% increase in speed.

The innovative meniscus profiler works with the system's new multi-angle lighting to analyse detailed 24-bit colour data for powerful solder joint integrity validation. In comparison to systems using monochrome analysis, Marantz's well-documented commitment to 24-bit colour imaging delivers superior performance in the identification of defects on gold or copper plated boards.

Marantz is renowned for its highly effective Synthetic Imaging algorithms, which deliver the optimum balance between defect detection and false rejects in the shortest period of time. This is a key feature for EMS Providers, and one that makes Marantz

AOI systems successful in this demanding sector. On PowerSpector, these algorithms have been augmented with new Spectral Analysis algorithms to further improve the critical AOI blend of programming speed, powerful defect detection and low levels of false rejects.

PowerSpector's intrinsic flexibility means it can be deployed in line at any stage of the assembly process: either after the printer to check solder paste deposition; after the placement machine to verify component characteristics and pin-in-paste; or post-reflow or wave soldering to validate component and solder joint integrity. Programming is also flexible, taking just minutes to ready a functioning program in Prototype Mode to verify assembly line set up before production. PowerSpector can be programmed using the comprehensive Marantz device library or by learning a Golden Board – or a combination of the two with manual refinement to suit any product.

ENDS

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For further information about Marantz' AOI systems, please contact the distributor for your area from the list below:

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