

Marantz AOI system unites fast programming, reliable detection and 24/7 operation



Marantz Business Electronics' L22XDL-520 Automatic Optical Inspection system is currently providing manufacturers around the world with fast programming, reliable detection and true 24/7 operation – all on a single in-line machine platform.

The AOI machine is designed to simultaneously maximise operator productivity and control, supporting detailed inspection of PCBs; including SMT and THT components, reflow and wave solder joints, and solder paste. Deploying advanced synthetic imaging inspection algorithms, the L22XDL-520 enables manufacturers to obtain immediate feedback during programming, maximising the machine's capacity to deliver reliable inspection for near 100% uptime.

Also featuring a high-speed digital XGA Colour Camera, the L22XDL-520 builds on the fifth generation DL Series' unsurpassed vision and lighting capabilities to provide exceptional in-line AOI. Driven by an Intel Pro Mac control system, the L22XDL-520 delivers the ultimate in true 24-bit colour imaging functionality. Since inspection algorithms and lighting possibilities are virtually unlimited, this unique AOI machine is equipped to meet every modern manufacturing requirement.

“The L22XDL-520 in-line AOI machine builds on Marantz' advances in error detection technologies to deliver reliable inspection accuracy for customers around the world,” explains Marantz Business Electronics General Manager, Henk Biemans. “We pioneered true 24-bit colour imaging to give us more data per pixel and

dramatically extend defect detection while minimising false alarms. 24-bit processing discerns subtle changes for improved image clarity, helping to separate components and solder images from the background board or substrate. All Marantz AOI systems deploy this technology in combination with our innovative angled and coloured lighting solutions to overcome the limitations of 8-bit greyscale imaging. This is a distinct advantage for manufacturers prioritising flexibility and control, and one which is delivering exceptional results for the evolving electronics assembly market.”

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About Marantz Business Electronics

Well known for high quality Audio/Video products, Marantz developed its first AOI system in 1994. Developed to inspect PCB assemblies for correct component placement and soldering, the AOI system was designed for use in Marantz’s own factories. Proving to be a highly successful, cost-effective alternative to traditional human inspection, Marantz developed its first generation commercial system in 1996. With a steadily growing installed base, Marantz Business Electronics has now sold over 3,500 units worldwide.

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