

Marantz Business Electronics delivers value- driven AOI solution



Marantz Business Electronics' unites technology advance, cost-efficiency and powerful operator control on a reduced footprint with its M22XDL-350 desktop Automatic Optical Inspection machine

Featuring the smallest footprint of all the machines in the company's range of desktop AOI systems, the M22XDL-350 supports comprehensive inspection of PCBs, including SMT and THT components, reflow and wave solder joints, and solder paste. Building on the proven strengths of Marantz' popular CL systems, the 22XDL generation introduces an innovative new lighting concept, with 3 Pulse Wave Modulated LED light sources and up to 6 different lighting combinations enhancing operator control for exceptional inspection accuracy.

This comprehensive operator control is further enhanced by Rep 22X Statistics and Repair Desk Software. Actively collecting inspection data from any 22X AOI machines in the network, the innovative software is able to monitor the inspection process in real time while simultaneously visualising collected data. This advanced functionality can be applied to each PCB for repair purposes or collectively to generate process statistics and analysis, maximising operator visibility and knowledge throughout the entire inspection process.

Along with all the machines in Marantz' range of AOI systems, the M22XDL-350 features the company's pioneering true 24-bit colour imaging. This breakthrough technology is designed to extend the amount of data available to operators per pixel,

dramatically enhancing 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. Deploying the technology in combination with its innovative lighting concept, the M22XDL-350 overcomes the limitations of 8-bit greyscale imaging to enhance inspection accuracy and reliability.

The Marantz name may be familiar, but perhaps not in the electronics assembly market. The Business Electronics division of Marantz is currently driving powerful process control and maximum production yields throughout today's electronics industry. Marantz has over 3,500 AOI machines in use worldwide, which makes them an industry leader.

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

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