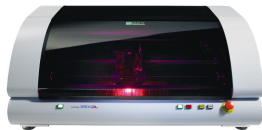


Marantz AOI system rises to the challenge of large board sizes



Marantz Business Electronics' M22XDL-650 benchtop Automatic Optical Inspection system is presenting today's manufacturers with a breakthrough solution for handling large board sizes of up to 650mm x 550mm.

Ideal for large PCBs such as back panels, the M22XDL-650 supports comprehensive board inspection, including SMT components, reflow and wave solder joints, and solder paste. In addition, since larger boards typically feature multiple THT connectors, the new machine incorporates unique Marantz technologies specifically designed to optimise THT solder joint inspection.

With an inspection capability of 100,000 components per hour, the M22XDL-650 is powered by an Intel Pro Mac control system which equips it to deliver best-in-class true 24-bit colour imaging. In addition, Marantz' 22XDL generation introduces an innovative lighting concept incorporating 3 Pulse Wave Modulated LED light sources and up to 6 different lighting combinations. When combined with ease of programming and a substantial usability advantage, the system significantly enhances operator control for highly reliable board inspection.

"I believe that the M22XDL-650 is the best AOI machine on the market for extremely large board sizes, delivering exceptional 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. Significantly enhancing inspection accuracy and reliability for manufacturers handling larger boards, the M22XDL-650 is an ideal solution for environments prioritising flexibility and control.”

Featuring a bottom side clearance of 100mm and a top side clearance of 40mm, the M22XDL-650’s versatility effectively meets the challenges of odd form components. Plus, since the system’s high-speed digital video CCD camera moves in X and Y planes, the stationary PCB can be fixtured for optimal support, avoiding warpage and further enhancing inspection results.

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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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