

Marantz to highlight latest technology breakthroughs at SMT Germany 2010, Stand 7-517



The team at Marantz Business Electronics is looking forward to showcasing a wide range of innovative technologies at this year's SMT Germany, being held in Nuremberg from 8th – 10th June 2010. From stand 7-517, Marantz will provide visitors with an opportunity to see a live demonstration of its recently introduced Solder Print Inspection (SPI) technology, while also learning more about its iSpector desktop AOI system and advanced Inspection Island.

Visitors to stand 7-517 will be able to see the Marantz team demonstrate its PowerSpector S1 system, employing its breakthrough "5D" technology. Where traditional 3D SPI systems measure only Height and Volume information, Marantz' 5D technology adds in true area, shape, offset measurement for the first time. Simultaneously combining 3D and 2D measurements leads to unprecedented defect detection and process control far beyond 3D only technologies. PowerSpector S1's high speed post-print solder paste inspection process incorporates patented new sensor technology. Marantz' SPI system looks set to be a major highlight on stand 7-517. Commenting on the technology, Marantz Business Electronics General Manager Henk Biemans explains: "Extensive research has identified that more than 60% of end of line defects can be traced back to printing errors. Intercepting these defects before they occur reduces rework costs, provides instant yield improvement and accelerates return on investment. This capacity is precisely what our SPI technology delivers without compromise, as we'll be showing visitors to our stand in a live demonstration!"

SMT Germany attendees will also be able to discover Marantz' new generation iSpector desktop AOI system equipped with 1 top and 8 side cameras in 45/45-degree configuration for the first time in a desktop machine. Solder joints of increasingly popular 45 degree space saving circuitry designs can now be inspected with 10um resolution side cameras. Featuring the company's pioneering true 24-bit colour imaging technology and 3D Solder Meniscus profiling, the system delivers an advanced AOI performance. Extending the amount of data available per pixel, 24-bit colour processing substantially enhances defect detection. By discerning subtle changes for improved image clarity, the technology helps to separate components and solder images from the background board or substrate. In addition, high speed and high accuracy 3D profiling of Solder Meniscus is achieved with a combination of reflected angle detection and synthesized imaging for a further AOI advantage. On display from Stand 7-419, the iSpector system will feature nine different cameras to demonstrate the technology's advanced optical capabilities.

Thanks to a successful partnership with Nutek, the Marantz iSpector system also enables value-driven automated PCB handling with the Marantz Inspection Island. Visitors will be able to find out more about this technology at the show, where the Marantz team will outline its ability to serve multiple lines while eliminating the requirement to load and unload PCBs. The Marantz Inspection Island also features unique repair & traceability software for effective post processing of defects. For additional flexibility, operators can also select classification on the fly through manual intervention. Biemans concludes: "Traditionally, island operation has only been available for customers with an inline machine model, plus a loader and unloader. However, we've taken our most cost-effective and popular desktop model and combined it with a proven, conveyor/rack storage system to dramatically reduce the cost and complexity associated with fully automatic offline inspection. It's innovations like this that have enabled our customers to rediscover AOI; I'm looking forward to showing SMT Germany visitors exactly how!"

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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 4000 units worldwide.

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