

New 'Manual Assembly Station AOI' from Mek



Mek (Marantz Electronics) has launched VeriSpector, an assembly station AOI for use on manual and semi-automated SMD and THT assembly stations. The VeriSpector system allows manufacturers to perform real time assembly and placement inspection and prevent defects before they move into the next process. This instant feedback to operators helps eliminate the risk of failures and increase the quality and effectiveness of manual and semi-automatic manufacturing processes, delivering significant yield improvements. Although optimized for PCB Assembly tasks, the system is also ideal for use in other disciplines

The [VeriSpector](#) provides inspection of components including presence, orientation, shape, offset, text, color and BarCode reading. The maximum size of PCB or object to be inspected is 750mm x 500mm whilst the minimum is 375x250mm (min).

A 24MP camera for crisp, clear resolution comes as standard, with a high definition lens to capture fine details. Options are available to upgrade to 42Mp or 60Mp cameras depending on the application requirements. The resolution can be increased if a PCB size less than the maximum of 750x500 is required. Detected defects can be displayed via red circles on a PCB Map or by NG images.

The overhead orthogonal camera and LED lighting system are optimised for colour and glare, allowing operators to continue performing assembly tasks under normal lighting conditions.

VeriSpector is powered by Mek 22X AOI Software on Apple Mac™ and is fully compatibility with Mek's 22X AOI products such as SpectorBOX including Library, Fiducialling, Search, Text, Polarity, Bar Coding etc. BarCode reading is carried out by the 22X BarCode decoding engine, but for full flexibility an external BarCode reader can also be used.

As an option VeriSpector can also feature Mek Catch Software for MES gateways, repair & SPC on Windows 10™, integrating the storage of inspection data, including images.

The VeriSpector AOI system comes complete with a kit for the self-build of an overhead frame for installation on the assembly station of the users' choice. This frame holds all the system components; camera, lighting system, Apple Mac & monitor.

www.marantz-electronics.com/assembly-station-aoi/

About Mek (Marantz Electronics Ltd)

A former division of Marantz well known for its high quality Audio/Video products, Mek Japan (Marantz Electronics Kabushiki Kaisha), developed its first AOI system in 1994. Developed to inspect PCB assemblies for correct component placement and soldering, the company's original AOI system was designed for use in Marantz factories. Proving to be a highly successful, cost-effective alternative to traditional human inspection, Mek developed its first-generation commercial system in 1996. With a steadily growing installed base, MEK Japan and its European/American headquarters, Mek, have sold over 8000 units worldwide to date. Now well established as a leading force in AOI technologies, the company also manufactures a 5D post-print SPI system which combines 3D and 2D image processing methodologies to deliver unprecedented defect detection. At the beginning of March 2014, the company opened US offices.

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