

Next-generation Software Reduces AOI Programming by 40%



Inspection system specialist Marantz Business Electronics has announced a pre-release of new software for its acclaimed series of AOI equipment. The new V400 suite offer numerous advances, not least of which is an impressive productivity-boosting reduction in programming time of 40%.

Key to the dramatic reduction in programming resource is a whole new strategy that defines the easiest and shortest way to generate high quality inspection programs. The foundation of the speed enhancement is a new function to create customer libraries automatically, which allows users to deploy the same library in different process stages from first-off inspection until post-reflow or post-wave soldering.

Other significant enhancements include a new Calculation algorithm that operates in conjunction with Marantz's Synthetic Imaging algorithms and facilitates the deployment of 'Rule Based Algorithms' to improve AOI system capability. This approach is commonly used in vector systems and is ideal for high volume production applications. In particular, the combination of Synthetic Imaging and Rule Based techniques generates an unsurpassed quality of AOI program that delivers exceptionally high real defect detection while maintaining low levels of false calls.

V400 also features an improved colour modelling algorithm that dynamically allocates colour information depending on the characteristics of the object to be inspected. This further increases inspection quality and reduces the effort required to debug and tune inspection programs.

The upshot of Marantz's new V400 software is better AOI programs in less time and with less effort – characteristics that deliver substantial improvements to high volume inspection productivity.

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