

ViTrox Technologies Brings Best-in-Class AOI and AXI to NEPCON China

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ViTrox Technologies has announced that it will exhibit in stand B1G58 at NEPCON China 2015, scheduled to take place April 21-23, 2015 at the Shanghai World EXPO Exhibition & Convention Center. The company will showcase the V810 S2 EX 3D In-line Advanced X-ray Inspection System (AXI) and V510 Optimus 3D AOI system, both of which are 2015 NPI Award winners. The V510 Optimus also won a 2014 Global Technology Award.

V810 S2 EX is able to inspect boards up to 482 x 609mm (10 percent larger than the S2) and provides the best support on the market for boards up to 7mm thick and 4.5kgs. The board top clearance of V810 S2 EX is enhanced to 50 mm while bottom clearance is enhanced to 70mm. The inspection area of the system is improved up to 18.7' x 24'. V810 S2 EX features Scan Path Merging (SPAM) state-of-art new technology that can reduce the inspection time and hardware scanning path. Single Unified Management Office (SUMO) uses an 8-core processor with 128GB of RAM that accelerates the system to its optimum level of performance.

Simultaneous Efficient Reconstruction Technique (SERT) and a new 64bit imaging processor architecture combine Predictive Slice Height (PSH) into a single scanning path. Phase Shift Profilometry 2 (PSP 2) boosts the projection and image acquisition speed up to 10 times faster using an in-house proprietary projector. PSP 2 improves accuracy and test coverage on 100 percent pressfit and PTH boards.

Additionally, V810 S2 EX is coupled with the ViTrox Verification Tool Solution (VVTS), which is equipped with SPC capability for reviewing and verifying inspection results and images.

The V510 Optimus 3D AOI uses 2D + 3D inspection concurrently to achieve high productivity and high detectability. It boasts capabilities that are unmatched by other existing solutions in the market. The system is able to detect various types of challenging defects, such as Lifted Lead, Coplanarity, Black color PCB / Multicolor PCB, Presence / Absence, small components like 01005/ 0201 and many others. V510 Optimus 3D AOI is coupled with structured lighting for 2D illumination with multiple color LEDs. The revolutionary multi-angle multi-color illumination capability allows multiple images to be acquired for each view.

The robust design of V510 Optimus 3D AOI is able to cater for multi-platform requirements, allowing mix-and-match combinations with AOI in XL, XXL, Dual Lane and Flexible Dual Lane models. The V510 Optimus 3D AOI comes with Dual Lane options, upgradable to XL model for bigger board size inspection, as well as the extended conveyor.

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