

## Surface Mount Technology

Vi TECHNOLOGY mindset is *Creating Value* for our customers in industries we are serving. Our deep experience and technical leadership in AOI (Automated Optical Inspection) lead us to develop state-of-the-art core competencies in automation, optics, image processing, and high-speed application software to design accurate equipment fitting current and future market needs.

The electronic industry growth is evolving quickly with new features and applications; the need for AOI in the SMT (Surface-Mounted Technology) is becoming more and more important to reduce defects in products sold to mass-market users.

The challenges of fast ramp up with high volume to avoid any loss of money in the industrialization of a new product can only be achieved with a tool able to optimize the process like our SPI and AOI solutions.

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# AOI solutions



“Your Yield Management Partner...”

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Automated Optical Inspection (AOI) is now the proven solution to improve both quality and productivity of Printed Circuit Boards Assemblies (PCBA). The cost of test is drastically reduced while the overall test coverage increases.

Vi TECHNOLOGY focus is creating value. We maximize your return of investment and we are committed to be your Yield Management Partner for the long run.



Innovative solution

**3D SPI**



Proven solution

**3K SERIES**



Large board & dual-lane solution

**5K SERIES**



**7K DL SERIES**

► **Product quality**

Vi TECHNOLOGY® AOI solutions offer the best defect capture and the lowest false call rates at the line throughput rates. Our AOI can be used at any location through out the production line, from Solder Paste Deposit Inspection, Mixed Mode and Pre Reflow, to Post Reflow or Post Wave Inspection. Equipped with full traceability functions (1D 2D readers, OCR, databases) all inspection results are recorded to secure the AOI process and provide accurate information to the review/repair operator. Our solutions also feature an enhanced color view to facilitate defect localization and diagnostic on our Defect Viewer station.

► **Process Control**

Vi TECHNOLOGY through its integrated software suite and versatile product platform is able to cope with all AOI implementation strategies. AOI can be used anywhere in the line and even combine several AOI's to achieve the Zero-defect line concept. AOI will not only capture defects, but will also prevent defects before they occur in the assembly line. By accurately inspecting the component deviation, AOI is able to feed back trends and data to the placement equipment in real time. Providing embedded solutions for data mining, root cause analysis and links to factory information systems, our AOI will secure your process.

► **Technology leadership**

Our technologies are Creating Value for our customers. The strength of our Vectoral Imaging vision technology offers an unmatched AOI process stability in production at sub-pixel accuracy and at an incredible speed giving the best escape and false rate in the market today. We keep building on the AOI intelligence through image processing (Profiler®, LibraryPro, Kaleido) and through leading edge vision know-how in high-speed processing, lighting (i-LITE) and cost-competitive system design. Our R&D program is focusing on enhancing existing products as well as bringing technological breakthrough. Vi TECHNOLOGY invests heavily in R&D every year to lead the competitive edge and to reach a sustainable excellence.

► **Maximized ROI**

Our product offer is adapted to the most demanding requirements in terms of accuracy, repeatability, speed and quality. We propose turnkey solutions to maximize the Return-On-Investment and decrease the cost of ownership in manufacturing plants:

- > One platform for all applications
- > Life time value
- > Upgradeable asset
- > Remote access technology
- > Comprehensive services portfolio

► **Productivity**

Vi TECHNOLOGY enables the best AOI throughput for the delivered inspection reliability. We help you minimize process learning curves. We help you reduce the cost of repair and scrap. Our software Suite offers offline programming & tuning, even without having the real product on hand. Welcome to the virtual programming world. Increase your line efficiency.

► **Local Presence- Global coverage**

Vi TECHNOLOGY is committed to providing the highest level of service worldwide through a broad range of solutions:

- Premium Remote and On-Site Support
- > Custom-Made Preventive and Curative Maintenance plans
- > Multi Level Trainings in Worldwide Regional centers
- > Expert Production Assistance (programming, ramp up)
- > Personalized "Program Quality Check"

Warranty extensions / Software upgrade Plans

- > Secured Spare Parts stock

CREATING VALUE  
 "Your Yield Management Partner..."

