NEW PRODUCT RELEASE:

KS 50 is an affordable AOI system for PCB assembly screening and verification, either before or after reflow. Using proprietary Statistical Appearance Modeling™(SAM) software, KS 50 performs 100% inspection at production line speed. Priced at $80,000 ($90,000 int'l), KS 50 is economical to own, and is field-upgradeable.

Affordable AOI for Pre or Post-Reflow Inspection

Minneapolis, Minnesota…KS 50™ from CyberOptics is an in-line automated optical inspection (AOI) system providing 100% loaded board inspection either pre or post-reflow, at production-line speed. Unlike conventional AOI systems requiring complex algorithms, KS 50 requires no special programming skills. The proprietary Statistical Appearance Modeling™ (SAM) software defines inspection criteria with minimal operator involvement.

KS 50 is affordably priced at $80,000 ($90,000 int'l) for a rapid return on investment, typically paying for itself in less than an year. The system is field-upgradeable to KS 100™ to meet future needs.

KS 50 inspects components as small as 0402s or 16-mil pitch QFPs for presence/ absence, pad position, skew, polarity and damage, and can check component values and logos down to 0805s. It supersedes end-of-line visual inspection, ensuring 100% inspection of components without the inconsistencies of manual inspection.

Statistical Appearance Modeling software substantially reduces programming workload by eliminating the need for finely-tuned algorithms. The operator simply downloads ASCII CAD placement data and indicates inspection locations on a series of good boards. KS 50 establishes inspection parameters by creating its own mathematical model covering all of the allowable variations.

During production the system continues to collect data, enabling the operator to periodically refine the model and improve machine performance. Typically the false call rate stabilizes below 100 ppm.

System options include increased inspection speeds, remote workstation for off-line programming and board repair, and process monitoring software.

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