New Stencil & Emulsion Screen Inspection Product

December 2014

Morrison, CO, USA - ScanCAD International has announced the release of a high-end clamshell hardware option for ScanCAD's family of solder paste stencil & emulsion screen inspection products.
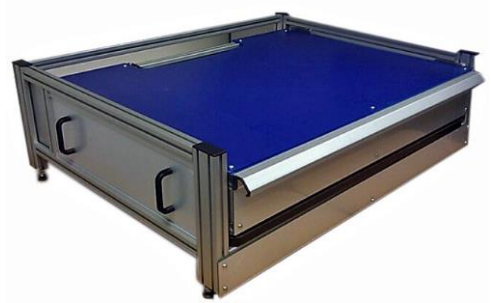
"We are pleased to announce that our extensive family of stencil & screen inspection products has been enhanced today with the addition of a new high-end clamshell hardware option. This enhanced hardware is geared toward leading edge technology such as stencils with very small and/or dense apertures or emulsion screens with very fine trace width and spacing. The clamshell hardware can replace the standard workstation desk hardware used currently in ScanCAD's family of market leading stencil and screen inspection products. This state-of-the-art automated inspection technology can now support inspection of products with features as small as 1 mil or 25 microns. " said Bill Loving, President & CEO, ScanCAD. "Today's processes and products can't tolerate missing or blocked apertures in stencils or screens… even one in a 100,000 is unacceptable.   Manual inspection is not an option and metrology systems are too slow for high tech products such as wafer bump stencils with hundreds of thousands or even millions of apertures. Now, ScanCAD provides a proven and reliable solution."

The ability of controlling the light source (top/bottom/both) with the Clamshell Option is a very powerful feature that allows the operator to choose the correct lighting for the stencil or screen being scanned. When using the Clamshell Option with only the top light ON, the operator can inspect stencils with very small/dense apertures while also being able to detect micro pinholes in electroformed stencils, something that is not possible with standard scanner lighting hardware. When using the Clamshell Option and keeping the lower light ON, the operator can then inspect step-etched or other surface features.   The Clamshell Option is designed to accommodate large stencil sizes as well as stencils with and without frames.

When inspection is complete, a report can be printed and/or electronically stored for full traceability and ISO compliance. This includes a date and time stamped high resolution color image of the part being inspected.

The new clamshell hardware option can be used with any of the four versions of automatic stencil inspection software options offered by ScanCAD. ScanCAD also offers a standard workstation desk hardware option that is suitable for most stencils and emulsion screens used in the marketplace today, but for those leading edge products, the clamshell option is the best choice.   The two hardware options and four software options provide eight possible configurations at various price/performance points to meet the needs of all customers & budgets. Please also note that all ScanCAD products are upgradeable, so it is always possible to start with an entry level configuration and upgrade to a higher end configuration as budget allows.

ScanCAD is a global provider of optical inspection, legacy re-engineering and process control tools for the PCB Design, Fabrication, Assembly and Semiconductor industries.   For more information about stencil and screen inspection with the clamshell option or other ScanCAD products, contact ScanCAD International, Inc. 12779 West Belleview Ave., Littleton, CO 80127 USA, +1.303.697.8888, info@scancad.com, www.scancad.com.