

Optical Inspection System



Manncorp has introduced the Sherlock-300F, a benchtop automated optical inspection (AOI) system featuring a new design with advanced features to provide defect coverage even on densely populated boards with small components.

The system eliminates the drawer design typical of benchtop AOI systems by feeding assemblies into the machine on the built-in conveyor. This minimizes machine footprint and allows the system's oversized display to be positioned directly in front of the user rather than set back or off to the side.

Program setup and operation is done on the display using multitouch gestures, similar to using an iPad. Inspection programs can be generated from pick-and-place files in addition to CAD data import, simplifying the process for manufacturers who don't have access to the PCB assembly's CAD data file.

The system can be used after stencil printing for 2D solder paste inspection; after placement for component presence, placement, and value verification; and after reflow or wave soldering for solder joint and final assembly inspection. Single- and double-sided surface mount, through-hole, and mixed-technology assemblies are handled well. The software adjusts for board warp and flexible substances, eliminating the need for manual corrections.

Manncorp, www.manncorp.com [1]

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