Hexagon Metrology Rolls Out New Release of Optiv Classic

Hexagon Metrology announced the release of the Optiv® Classic 321GL tp, which will be assembled at its North Kingstown, RI facility for the North American market. This benchtop vision measuring machine features 6.5x motorized CNC zoom optics that contribute to levels of accuracy approaching 2µ. Each unit is pre-configured to add a touch-probe for multi-sensor measurement. The Classic 321GL tp is ideal for the inspection of complex, densely populated features, such as medical, electronic or other precision parts including micro-hole dies, sieves, filters, fiber optics and inkjet nozzles. It is the smallest model in the Optiv product line, complementing Brown and Sharpe's Global bridge CMM series.

Highlights of this innovative vision technology include calibrated lighting, a high resolution color CCD camera, a laser locator and an 8 segment LED dual angle ring light to create better contrast for edge detection. The system also delivers software controls for RGB (Red/Green/Blue) sensitivity allowing for adjustment over contrast, improving overall consistency and precision for colored parts where edges can be difficult to capture with only grayscale or lighting modifications.

The Classic 321GL tp comes standard with PC-DMIS® Vision image processing software and full online 3D CAD capabilities for live programming of the machine to compare measured values to nominals. The software includes the groundbreaking MultiCapture feature which finds all 2D characteristics in the field of view, regardless of their type, and measures them simultaneously. MultiCapture then moves the camera to the next cluster of features and measures them. This sequence continues until the inspection program is complete, and is automatically optimized by creating the most efficient path with the fewest number of stage

movements. Inspection speeds increase by 50% or more, depending on feature size and density, which can significantly raise throughput.

“The Classic 321GL tp provides accuracy, multi-sensor capability, and maximum flexibility,” states Dan Farnsworth, Product Manager for Hexagon Metrology. “The granite construction with mechanical bearings make it a particularly robust machine for use in a temperature controlled environment. It’s well suited for quality assurance in a variety of industries. Its economical price point makes it ideal for entry-level multisensor metrology applications providing an excellent return on investment.”

Hexagon Metrology
www.HexagonMetrology.us [1]

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