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FOR IMMEDIATE RELEASE

Surf-Tech Manufacturing Adds New ViTrox V510i AOI to Strengthen Advanced Packaging Inspection

RONKONKOMA, NEW YORK — January 2026 — Surf-Tech Manufacturing Corp., a multi-faceted provider of contract manufacturing services, has strengthened its ability to support customers with complex advanced packaging and microelectronics programs through the addition of the ViTrox V510i Smart 3D Automated Optical Inspection (AOI) system.

The new system enables Surf-Tech to deliver greater inspection accuracy, improved defect detection, and more consistent quality for customers working with increasingly miniaturized, reflective, and high-density assemblies. By incorporating real 3D measurement and high-speed inspection, the ViTrox V510i allows issues to be identified earlier in the process, helping customers improve yield, reduce rework, and maintain tighter process control.

Designed specifically for advanced packaging applications, the ViTrox V510i provides reliable inspection of lead frames, die, wire bonds, and mirror or highly reflective components—areas where traditional inspection methods often struggle. Its high-accuracy 3D imaging ensures consistent results even for challenging microelectronics features.

The system also supports real-time closed-loop feedback and data cross-referencing, enabling Surf-Tech to correlate inspection data across processes and respond quickly to trends. This data-driven approach helps customers benefit from improved traceability, faster root-cause analysis, and more stable production outcomes.

“Adding the ViTrox V510i allows us to better meet the inspection demands our customers face as packaging technologies continue to advance,” said Stephen Eggart, President, Surf-Tech Manufacturing. “It strengthens our ability to deliver reliable, repeatable quality for advanced and high-reliability applications.”

Surf-Tech Manufacturing supports customers with surface mount and through-hole assembly, box build, BGA rework, and electro-mechanical integration. The company is ISO 9001:2015 certified, ITAR registered, and builds to IPC-A-610 Class 2 and Class 3 standards, providing customers with confidence in quality, compliance, and consistency across a wide range of programs.

For more information, visit www.surftechmfg.com.



About Surf-Tech Manufacturing

Surf-Tech Manufacturing Corporation has been providing contract manufacturing services to all types of industry since its inception in 1989. The company specializes in Surface Mount Technology and has state-of-the-art automated equipment in house to perform critical placement of components. Surf-Tech provides solutions for a range of manufacturing needs from prototype design to end-customer webstore fulfillment. For more information, visit www.surftechmfg.com.