



## Koh Young's Neptune Dispense Process Inspection Wins the Mexico Technology Award for Best Test & Measurement Inspection Equipment at SMTAi

Atlanta, GA – Koh Young, the industry leader in True3D™ measurement-based inspection solutions, is excited to announce its Neptune C+ for dispensing process inspection (DPI) was recognized with the Mexico Technology Award in the category of Test & Measurement Inspection from Ron Friedman of Mexico EMS. Joel Scutchfield, General Manager of Koh Young America accepted the award during the 2021 SMTA International show in Minneapolis, MN.

Conformal coatings protect electronics from moisture, debris, corrosion, and adds mechanical stability to reduce failures and improve harsh environment reliability. But what if the coating is too thin or defective? Failure! Traditional laser-confocal and electron microscopes only measure three-dimensional shapes and cannot inspect transparent materials, because the penetration depth is just too shallow. Optical systems using UV light are only effective for simple 2D presence or absence.

Our L.I.F.T. technology (Laser Interferometry for Fluid Tomography) delivers non-destructive 3D inspection to precisely measure fluids that are either wet or dry, including material thickness – all at production speeds. Based on low-coherence interferometry, LIFT employs Near-Infrared Light (NIR) to capture images through multiple layers of a fluidic structure regardless of transparency.

As such, the Neptune is the industry's first 3D optical inline measurement solution for transparent material inspection. With its integrated flipper, intuitive programming, and machine-learning algorithms, it allows manufacturers to explore the depths of its process using 2D, 3D, and cross-section views to accurately identify defects at full production speed.

With advanced algorithms to teach inspection parameters, Neptune accurately measures materials for coverage, thickness, and consistency using a user-defined threshold setting. It also inspects bubbles, cracks, and other defects – even splash marks in “keep out” areas.

Besides coatings, it measures underfill, epoxy, bonding, and more to deliver an accurate measurement of transparent, translucent, and pigmented materials. The system is currently suited for acrylic, silicone, polyurethane, water-based, UV-cure, and hybrid coatings. The Neptune is the industry's first True3D optical measurement solution for transparent material inspection and solves a long-standing industry challenge.

To learn more about the Neptune and our other award-winning technologies, you can visit us at the IPC APEX Expo in Booth 1717 during 25-27 January 2022 at the San Diego Convention Center in San Diego, California. You can register to attend the in-person conference and exposition at [www.ipcapexexpo.org/](http://www.ipcapexexpo.org/). Koh Young America is excited to reconnect and collaborate in-person, while ensuring COVID safety protocols are implemented and upheld for your health and ours. If you cannot attend the show, you can still learn more about our best-in-class inspection solutions at our regional website [www.kohyoungamerica.com](http://www.kohyoungamerica.com).



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### **About Koh Young Technology, Inc.**

Established in 2002, Koh Young pioneered the market by launching the first 3D Solder Paste Inspection (SPI) system using a patented dual-projection Moiré technology. Since then, it has become the global leader in 3D measurement-based SPI and Automated Optical Inspection (AOI) equipment for the electronics industry. Based on its True3D™ measurement-based inspection technology, Koh Young has developed innovative solutions for challenges with Machining Optical Inspection (MOI), Dispensing Process Inspection (DPI), and Semiconductor Packaging Inspection (MEISTER Series). Through its technology innovations, Koh Young has secured thousands of global customers, and maintains the largest global market share in the SPI and AOI markets. Additionally, by adopting its user-centric R&D activities, it continues to leverage core competencies and develop innovative solutions for new and existing markets. Its activities stem from the corporate headquarters in Korea to its global sales and support offices in Europe, Asia, and the Americas. These local facilities ensure it keeps in close contact with the market, and more importantly, its growing customer base to provide access to an award-winning network of inspection and measurement experts. Learn why so many electronics manufacturers trust Koh Young for reliable inspection at [kohyoung.com](http://kohyoung.com).

### **For More Information**

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