

IRIS INSPECTION and VIDEO SYSTEMS collaboration triggers detection masterstroke

In the following interview with GMP&A, IRIS INSPECTION MACHINES Area Manager Sonia Debets discusses Oculus Neo – the winning result of a strategic partnership between her company and VIDEO SYSTEMS. Designed to Industry 4.0. standards for glass monitoring, this universal, camera-based solution offers the key advantages of efficiency, capacity, modularity and ease of use.

GMP&A: Sonia, what makes Oculus Neo a different check inspection solution?

Sonia Debets: Oculus Neo stands out as a camera-based check inspection that combines the advantages of traditional emitter-receiver systems and fully automatic camera inspection solutions. Traditional emitter-receiver systems often require meticulous setup and expertise to achieve accurate results, while fully automated camera systems can sometimes miss critical areas, especially in complex shaped containers. Oculus

Neo overcomes these challenges by providing a modular system that is both versatile and scalable, ensuring no check is overlooked. Oculus Neo offers flexibility, accuracy and minimises downtime during production and job change. Additionally, Oculus Neo is a universal solution: it means it can be installed on any existing carousel-type inspection machine, regardless of brand or gen-

eration, with no need to overhaul the production line. Another key benefit is that Oculus Neo is very compact. Using cameras that are 30 percent smaller than the market average, the system integrates easily into any carousel. The design saves space, enabling more detections inside. Oculus Neo has been designed for a plug and play installation. With

The logo for Oculus Neo, featuring the word "OCULUS" in a bold, blue, sans-serif font above the word "NEO" in a similar font. The logo is enclosed in a blue rectangular border.

no additional footprint, it requires only one compact rack and no extra electrical frame.

GMP&A: For glass industry players, what are the concrete benefits of Oculus Neo?

SD: Glassmakers are increasingly focused on better quality control and improved operational efficiency: more stable production flow, reduced downtime and higher volumes of sellable ware. With less energy waste target, these efforts translate into cost savings and closely monitored ecological impact. Oculus Neo, like all our inspection solutions, is designed for long-term reliability. The system also features an intuitive interface, making it easy for operators to optimize its performance and achieve the best possible inspection results. Oculus Neo is the culmination of years of collaboration with glassmakers, continuously evolving based on real-world feedback. Since 2006, the fifth generation of Oculus has been developed, making it a technology that has had time to mature.

GMP&A: Where exactly is the innovation, technically speaking?

ABOUT SONIA DEBETS, AREA MANAGER AT IRIS INSPECTION MACHINES

Graduated from the University of Economics in Bratislava with a Master's Degree in International Relations, Sonia Debets has spent fifteen years gaining experience across various industries in different European countries. The most significant milestones in her career come from her experience in the container glass industry. Debets has consistently focused on high-tech solutions. Fluent in English, French, Russian, Slovak and Hungarian, she has been working as Area Manager at IRIS Inspection Machines since 2013. Over the years, Debets has developed in-depth knowledge of the Glass Industry especially in Europe, Turkey, America, Central Asia and India. Her expertise in the glass industry enables her to provide tailor-made inspection solutions to glass plants - optimizing quality control processes, enhancing production efficiency and ensuring compliance with industry standards.

SD: Thanks to camera-based check inspection, Oculus Neo covers the entire container, including the finish, under the finish area, neck, shoulder, engravings, and heel - even the hardest-to-reach areas. In comparison, traditional emitter-receiver systems often require frequent fine-tuning and constant adjustments to accommodate evolving checks and cracks throughout production. With Oculus Neo's camera inspection, the inspected zone is significantly

wider, enabling more accurate and consistent defect detection. This eliminates the need for constant fine-tuning and reduces the risk of defects going unnoticed. In other words, Oculus Neo's modular camera design ensures precise inspection of both horizontal and vertical checks on containers of varying shapes, sizes, and colours - even in the most complex zones.

GMP&A: How does the collaboration work with Video Systems?

SD: By combining the strengths of IRIS and Video Systems, we bring together over 50 years of experience in industrial vision. IRIS handles global sales, installation, and after-sales service worldwide. Video Systems oversees the production in Italy and collaborates closely with IRIS on the product development. It's a classic and logical split. We are both specialized in AI-based vision systems, driven by innovation and customer focused. It's not simply the addition of skills, it's a true multiplication of capabilities. We share strong ambitions to go further in this collaboration.

GMP&A: Is Oculus Neo compatible with IRIS latest innovation, AI-based assistant iBot?

SD: Absolutely, Oculus Neo is



ABOUT IRIS INSPECTION MACHINES

Founded in 2002 and a subsidiary of Wisetec Group, IRIS Inspection Machines is a leading designer, developer and manufacturer of intelligent inspection solutions for glass containers. IRIS masters the entire production of machines from ideas and concepts to the production of CPU boards and on-site installation. The company offers precise and innovative inspection machines with reduced dependence on human factors to increase glass plants productivity, quality and efficiency. Achieving 95 percent of sales outside of France, IRIS is an international team of engineers, developers, draftsmen and technicians speaking altogether 17 languages. Thanks to a network of international agents and technical support service centres, IRIS supports customers in more than 50 countries, throughout Asia, Europe, the Americas, Africa and Australia. IRIS inspection solutions are non-contact and equipped with the latest generation of cameras, lenses and light sources. They are artificial intelligence based and feature self-adjusting and self-learning characteristics, including automatic recognition of glass defects. IRIS state-of-the-art inspection solutions incorporate advanced software and optics that comply with the smart factory.

ABOUT VIDEO SYSTEMS

Founded in 1993, Video Systems is a pioneer in the design and production of high-performance visual inspection systems located in Friuli Venezia Giulia, in North-Eastern Italy. With a focus on industrial automation, the company provides innovative solutions for quality control in various industries, including glass, plastic and packaging. Video Systems' advanced technologies utilize cutting-edge camera systems and Artificial Intelligence to detect defects with precision, reducing the reliance on manual inspections and improving production efficiency. Operating globally, the company has served clients in over 40 countries since its creation, offering tailored solutions that meet the specific needs of their manufacturing processes.

compatible with iBot. It's adding value because it opens the door to predictive analytics. Not just defect detection, but also trend analysis to anticipate issues in the production process. That's where our synergy really shines. We work hard for smart factory integration and the main idea is that together, we offer a more flexible, more reliable, more precise and more intelligent solution - all to improve the productivity of glassmakers worldwide. ■



IRIS Inspection machines

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