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## **Innovation the SEA Vision way, at Pack Expo 2019**

*New HarleNIR chemical imaging system due to star in Las Vegas from 23 to 25 September 2019.*

- HarleNIR, the new hyperspectral system presented for the first time in Las Vegas
- Business intelligence Suite yudoo is on show
- USA, a key market for SEA Vision

Pavia - PACK EXPO, 23- 25 September, Las Vegas. The largest trade fair in North America in 2019 is ready to host over 30,000 visitors from all over the world, for all the latest on the equipment, components, materials, and services relating to the packaging industry.

At the stateside show, **SEA Vision** will be showcasing HarleNIR. This integrated vision system, featuring a hyperspectral camera, offers qualitative analysis of solid products combined with real-time rejection of faulty products. HarleNIR was created to prevent commingling and to detect tablets with a different chemical composition or an incorrect concentration of the active ingredient, which would otherwise go unnoticed as they are the same shape and colour as the others around them. In the pharmaceuticals industry, the active ingredient uniformity tests which must be passed in order for a batch to be released, are usually performed on off-line samplings using laboratory equipment. Offering an alternative to conventional methods, SEA Vision has developed a system which is installed directly on the production line. The result? Non-destructive monitoring of 100% of the products, faster batch release times, and no risk of low product quality levels. HarleNIR is a revolutionary machine vision system that combines **standard vision control features with a hyperspectral system working in the near-infrared spectral band** to perform quantity and quality analysis. It can be used to analyse the chemical composition of solid products administered by mouth, such as capsules and tablets whether printed, moulded, coated, flat, or embossed.

The HarleNIR system is a **PAT tool**, i.e. a non-destructive inspection device, used to ensure production line efficiency and quality pharmaceutical products. This technology can be used to analyse the finished product while still on the production line, making sampling unnecessary and inspecting, therefore, 100% of the outgoing products. One of the most cutting-edge and significant features is the

**tablet tracking**, which allows individual products to be identified and monitored as they move through the conveying system. Thanks to the **single product rejection** feature, the system directly discards the individual faulty tablet only, thereby preventing the wastage and subsequent need for re-processing of an entire bottle, which, of course, means maximised machine efficiency.

The **HarleNIR system will be presented to the American market for the first time** installed on a Marchesini counter - more specifically a Compact 12a monoblock unit - thereby incorporating counting and capping operations within a single device. This is possible because the SEA Vision HarleNIR system can be integrated through a series of advanced proprietary algorithms that generate a data package for transmission to the machine on which the system is installed. To ensure frictionless data transmission, the **Ethernet D-Bus** communication protocol is used, which allows the ultrafast transmission (in **under a millisecond**) of highly complex results to the machine. This focus on system/packaging machine integration is one of SEA Vision's strengths, as the brand is renowned not only for its expertise at developing advanced, efficient software, but also for its ability to integrate its systems into existing machinery.

Another exciting development due to be on show at Las Vegas is **yudoo**, the new **software suite** developed by SEA Vision specifically for the pharmaceuticals market, which was created to re-shape the concept of line management and features additional 4.0 applications. A unified environment for **business intelligence** analysis, yudoo offers numerous extra modules, including centralised control systems, KPIs based on historical data, data logging, OEE tools, real-time dashboards, integrated track & trace functions, predictive maintenance, and so on.

For SEA Vision, renewing its participation in Pack Expo not only means **reaffirming its dedication to a key market** for machine vision systems but also, and above all, confirming its status as an ideal partner for aggregation systems. From 2023 onwards, for the US market, manufacturers will be legally required to include aggregation features within serialisation systems, in order to guarantee increasingly effective traceability of pharmaceutical products. In line with this, SEA Vision provides software that can be integrated with all the solutions available on the market, offering quick and easy implementation, together with guaranteed, reliable results.

**SEA Vision will be exhibiting at the Las Vegas Convention Center, stand N-107, from 23 to 25 September 2019.**

**SEA Vision**

SEA Vision has been a leading supplier of vision systems for the pharmaceuticals industry for over 20 years, building its success on the excellence of its technology solutions. To date, SEA Vision has installed over 1000 complete track and trace systems and over 5,000 vision systems worldwide. Through its consolidated expertise in innovative projects and constant commitment to research and development, the company can offer its customers the best technology solutions for highly complex innovative projects. Using its network of engineering, sales, and marketing offices covering the main markets worldwide, SEA Vision provides customer-tailored training services and on-site technical assistance.

For More information: [www.seavision-group.com](http://www.seavision-group.com)