

Press release

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BST Group and Nyquist Systems unveil TubeScan V8 – the next level of intelligent label inspection

See Smarter. Run Faster. Win Bigger.

At Labelexpo Europe 2025, **BST** and **Nyquist Systems** will introduce **TubeScan V8**, the latest generation of their proven 100% inspection system for labels and narrow web applications. Built on a completely new software platform, BST TubeScan V8 combines advanced image processing with user-focused innovations that enhance speed, accuracy, and ease of use. It's all about **seeing smarter, running faster – and winning bigger**.

Key innovations in TubeScan V8:

- **Smart False-Defect Prevention** for more stable inspection during press fluctuations
- **PDF comparison** with many new features such as automatic image alignment
- **Enhanced pharma mode**, tailored for the highest compliance and reliability
- **Streak detection** for pinpointing nozzle defects in inkjet printing
- **Fully redesigned user interface**, that simplifies operation and reduces training time
- **High-resolution, full-context defect images** – enabling unmatched traceability and visual proof for every single fault

No false defects – only real errors detected

One of the most common frustrations with high-resolution inspection systems may be the detection of “false defects” – irrelevant anomalies that slow down production, create unnecessary rejections, and confuse operators. TubeScan’s highly refined software distinguishes between critical print errors and harmless variations, ensuring **only real defects** are flagged – accurately, reliably, and in real time. The result: fewer interruptions, less waste, and greater productivity.

Multiplexing: Parallel inspection using multiple lighting modes

BST TubeScan also introduces **Multiplexing**. Thanks to pulsed lighting and segment-specific **matrix camera technology**, multiple illumination modes can be used **simultaneously**. This allows for the concurrent inspection of different printing elements in a single pass – for example:

- **White light** for traditional 100% print inspection
- **UV light** for detecting fluorescent inks or security features
- **Transmitted light** for spotting pinholes or embedded **RFID structures**

With this advanced approach, there's no need for separate setups or lighting changes. Complex materials and embellishments can be fully inspected in one smooth operation.

Scalable functionality for every budget

From simple web monitoring to full high-resolution print inspection within digital workflows, **TubeScan** is scalable to meet any production or investment level. It handles everything from label counting and detection of missing labels or die-cut residues to rewinder control and complete workflow integration. Advanced lighting options also make TubeScan ideal for demanding applications such as **braille, metallic foils, security printing, and high-end finishing**.

New Top-to-Bottom Monitoring System for Two-Sided Print Accuracy

BST TTBView is a newly developed Top-to-Bottom viewing system that ensures perfect front-to-back alignment for printers and converters working with double-sided processes – a must-have for precision production when both sides of the material matter.

CLS CAM 200 - new matrix camera sensor controls with high precision and according to print lines, print edges or web edges

“With the new camera-based sensor CLS CAM 200, we are presenting an innovation at LabelExpo Europe 2025 that combines precision and sustainability. The system regulates directly based on contrast features, thereby increasing quality and efficiency,” explains Ingo Ellerbrock, Product Manager at BST.

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The CLS CAM 200 features automatically controlled LED lighting and supports both bright-field and dark-field operation for reflective surfaces. The system is operated centrally together with the control unit via the BST SMART COM 100 Commander, complemented by an optical positioning aid and automatic job and setup memory.

Complementary web monitoring systems

BST will also showcase its video web monitoring solutions at Labelexpo:

- **BST PROView**: A modular, high-performance system with an unbeatable price-performance ratio
- **BST POWERScope 5000**: A cost-effective monitoring solution tailored for label and narrow web applications
- **iPQ-Check Digital**: State-of-the-art digital inspection for comprehensive quality control

FOR YOU: Built around your needs

All of these innovations reflect BST's core philosophy: to develop practical, high-performance solutions that make a real difference on the production floor. This consistent focus on added value for the customer is what defines FOR YOU.

Picture and caption:



TubeScan V8: the next generation of intelligent 100% print inspection

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About BST

BST GmbH, an elexis Group company, is one of the leading suppliers of quality assurance systems for web processing industries. The Bielefeld-based company offers solutions for web guiding, surface inspection, web monitoring, 100% inspection, color measurement, color management, register control and automation. The company has decades of practical expertise in these areas, with installations at more than 15,000 customers worldwide in the printing and packaging, paper and film, rubber and tire, battery and fuel cell, and printed and organic electronics industries. BST stands for high-quality monitoring, smooth production processes and first-class service worldwide.

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