Simple operation; maximum efficiency

Code Assurance

Code Detection System

VIDEOJET®

Automate code detection
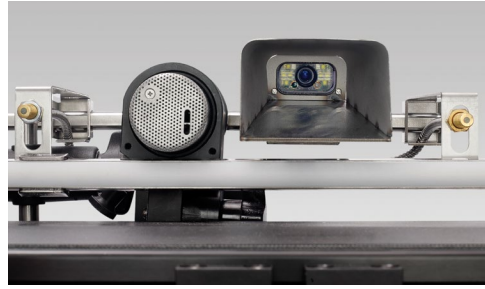
Code detection simplified

The Videojet Code Detection System provides an automated means to help confirm that your products contain the necessary codes. Using presence/absence detection, the system verifies that ink jet printed codes contain an appropriate number of pixels within a customer-defined tolerance, helping deliver peace of mind that your products have been coded properly.

Even on moderate speed packaging lines, hundreds and perhaps thousands of products may be marked between manual inspections. Automatic code detection dramatically increases the sheer quantity of inspected product versus manual sampling methods, helping to identify coding defects faster. The code detection system can be configured to take a variety of actions if a coding error is detected:
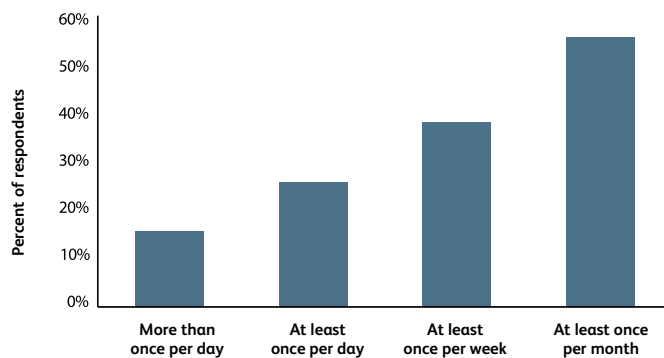
- send a warning signal
- send a signal to trigger a customer supplied product eject, and/or
- send a signal to stop the packaging line

The system stores improper code images in memory, so root cause of printing errors can be quickly be identified and measures implemented to prevent recurrence.

The true frequency of coding errors

Coding errors happen. In fact, they're common. Videojet surveyed a variety of fast-moving consumer goods manufacturers and found that all had experienced coding errors – many of them on a frequent basis. The survey showed that nearly half the companies responding were having trouble with coding errors at least once per week, with one-quarter reporting coding errors at least once per day. Solutions that identify errors before products are put into the supply chain can help save time, money and rework.

Survey: Frequency of Coding Errors

Bar chart — Percent of respondents:
- More than once per day: ~15%
- At least once per day: ~25%
- At least once per week: ~38%
- At least once per month: ~56%

Videojet in-line integration capabilities

In addition to the Code Detection System, Videojet offers a range of in-line inspection options for customers looking for more advanced inspection capabilities. Videojet offers extensive Code Assurance and Packaging Verification capabilities spanning code presence/ absence, bar code reading and verification, and optical character recognition/ verification (OCR/ OCV). Videojet has successfully integrated scanners and machine vision cameras in-line with Videojet printing equipment on hundreds of packaging lines. For over two decades, Videojet has partnered with the world's leading machine vision companies to bring these capabilities to customers.
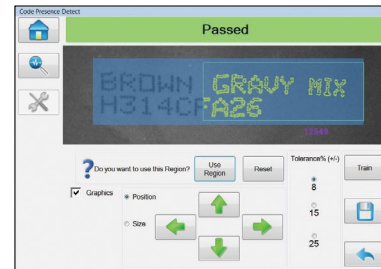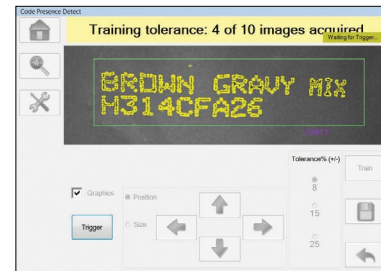
3-step simple

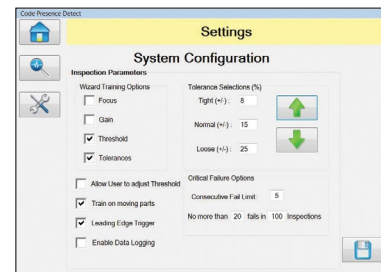**Note: Camera must be activated before set-up to ensure full functionality**

1. Select the "region of interest" using familiar touchscreen entries

2. Press the "Train" button to initiate automated calibration procedure

3. Adjust the reject sensitivity to your company's quality and operational requirements


Unlike advanced solutions, the Videojet Code Detection system is an easy-to-set-up, simple-to-use, and affordable code detection system. The system bracket holds the product detector, printhead, camera and print detector automatically in alignment with each other, eliminating the need for physical user adjustments and providing optimum performance.

Customer-defined tolerance levels

The Videojet Code Detection System allows the user to configure the threshold for both good versus bad codes and the number of bad codes that can be detected before a failure is indicated. This helps meet customer-specific quality and operational requirements. Customers specify the location of the "region of interest" and what percentage of ink jet pixels must be present to allow a code to be considered "good". Ideal for flat and white or light-colored packaging, the system can detect no code in the region of interest, a code shifted outside of the region, and clipped codes – codes where characters have been truncated at the top or bottom.
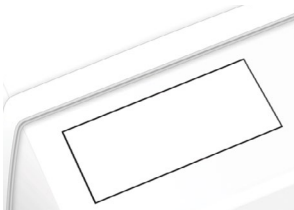
Good code, proper location on product
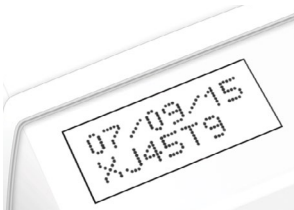
Shifted code (outside region of interest)

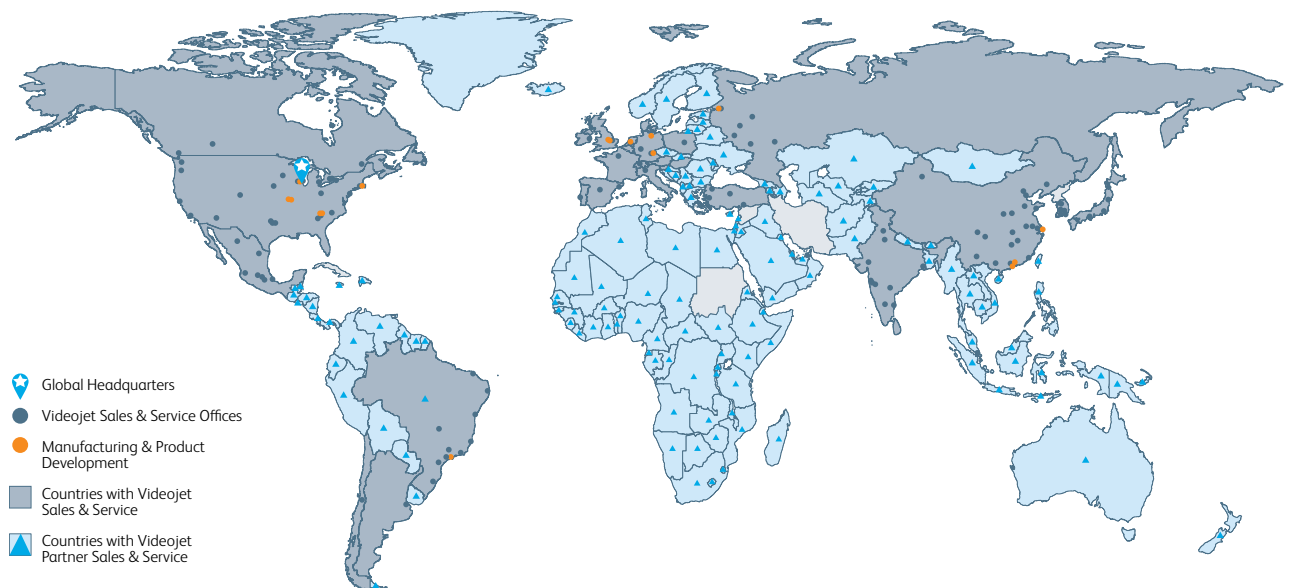
Missing code

Clipped code

Peace of mind comes as standard

Videojet Technologies is a world-leader in the product identification market, providing in-line printing, coding, and marking products, application specific fluids, and product life cycle services.

Our goal is to partner with our customers in the consumer packaged goods, pharmaceutical, and industrial goods industries to improve their productivity, to protect and grow their brands, and to stay ahead of industry trends and regulations. With our customer application experts and technology leadership in continuous ink jet (CIJ), thermal ink jet (TIJ), laser marking, thermal transfer overprinting (TTO), case coding and labeling, and wide array printing, Videojet has more than 325,000 printers installed worldwide.

Our customers rely on Videojet products to print on over ten billion products daily. Customer sales, application, service, and training support is provided by direct operations with over 3,000 team members in 26 countries worldwide. In addition, Videojet's distribution network includes more than 400 distributors and OEMs, serving 135 countries.

- Global Headquarters
- Videojet Sales & Service Offices
- Manufacturing & Product Development
- Countries with Videojet Sales & Service
- Countries with Videojet Partner Sales & Service

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