



# JETVision®

Ensure product and packaging integrity with industry-leading vision and sensing technologies

In order to remain competitive, manufacturing facilities must consistently deliver the highest quality products with greatest efficiency. The key to accurate quality control, record keeping, and operational analysis is data collection at the production line level. When individual units and aggregated product bundles are pre-screened by JETVision®, it helps to ensure that your products and packaging meet the highest quality standards as well as any relevant regulations.

## JETVISION® ENABLES FACTORY INTELLIGENCE

JETVision® provides a powerful and high-speed data gathering solution through highly-customizable hardware and software components. The robust inspection software reads and interprets production control marks such as barcodes, serial numbers, or colors and mines data from virtually any document or object. JETVision® is used with vision and sensing hardware technologies that are physically mounted to the production line in order to collect data in real time. These data points are used to help control the processes by validating with an external file source or reporting to the operational management level. Alternatively, JETVision® can be implemented as a standalone workstation in manual process areas, which greatly reduces the labor to administer these jobs and drastically increases the integrity and reporting aspects.

The entire JETVision® family of modules provide identification, integrity tracking, product quality validation and the device controls needed to deliver a fully functioning “Track and Trace” program. These technologies enable both manufacturing and distribution supply chains to capture data on a variety of objects and processes with full integrity and extreme speed. This functionality combined with our enterprise management suite provide the complete Factory Intelligence solution.

## A CONTINUALLY EVOLVING SYSTEM

Today's Bell and Howell draws on its long history in camera and film technologies to deliver advanced machine vision software, providing many industries with state of the art vision and sensing products. With more than 6,000 licensed systems installed, maintaining current production systems is of considerable importance. At the same time, Bell and Howell balances the need for continuous performance improvements and product enhancements with data security and backward compatibility. JETVision® is always adapting to new technologies, standards and market demands.

## MORE VALUABLE DATA THROUGH BETTER USE OF TECHNOLOGY

Unlike competitive scanning products, JETVision® was built as a data capture engine first. This philosophy emphasizes that the priority is on the integrity and usefulness of the data, not the input sensing technology. While our vision libraries boast a very large capability of symbologies and Optical Character Recognition (OCR) decode engines, JETVision® also utilizes a wide variety of analog and digital sensors along with multiple RF technologies. Adaptable to changes within any environment, JETVision® works with this wide selection of input devices and even allows the addition of multiple sensing points to a single data capture message. Such flexibility allows data to be captured from different processes and devices without burdening the tracking system with multiple device commands and formats. This is called "normalizing" the data, and the result is enriched content and expanded usability.

## PRODUCT IDENTITY

Capturing product identity is a fundamental need for any automated data capture system, which may need to provide an audit trail or report package. JETVision® captures product identity through its extensive symbologies library that includes all major 1D and 2D barcodes, multi-font/multi-line text, pattern, shape and color based identification. Additionally, many RF components and specialized barcodes like those for the postal, parcels, and pharmaceutical industries are readable.

## PROCESS INTEGRITY

Process Integrity is another key factor that can be addressed using JETVision® tools. The ability to track the sequence of how a product is produced or, the ability to verify that a single item belongs to the correct hierarchy are just some examples of the process integrity tools available. The JETVision® system reads and matches multiple pieces of information to verify every product and package is assembled with full integrity. As data is read at the primary position, the matching operation compares and validates that multiple pieces of data read on a single item or information read in multiple locations matches. If the match is not valid, the system is then instructed to fault and stop for the operator to take corrective action, or the item can be diverted with an auditable trail.

## PRODUCT QUALITY

The ability to catch errors before they become violations, while providing useful and clear feedback to solve problems quickly, is a key philosophy behind JETVision® Product Verification technology. JETVision® Verification can perform a multitude of tests to each product or aggregation in real time. Product quality validation includes the tools and technologies used to automate quality check procedures to provide faster, and more efficient inline processes. These tools enable validation that the product is being produced to acceptable standards, alerting the operator to non-conforming packaging or markings.

## PRODUCTION REPORTING

Because of the developing regulations in many industries, keeping a reliable record of validation and verification data is imperative. JETVision® Product Verification reports provide a summary of the serialization and aggregation on a given production line or for the entire factory. This same report engine gives all statistical summaries of both good and failed pieces along with a complete summary of errors and warnings. Item details can be reached by a simple click - this drill-down architecture allows the user the freedom to access the data to their own required resolution.

### KEY CAPABILITIES


- Numeric or file-based sequential verification
- Data Matrix and barcode grading and analysis
- Code readability
- Symbol contrast
- Color validation
- Dimensioning and positioning tools
- Measurement and alignment validation
- Package dimensioning
- Image matching
- Streak and void detection
- Dynamic direct and indirect matching
- Proof to print validation
- Format verification

FOR MORE INFORMATION VISIT: [BELLHOWELL.NET](http://BELLHOWELL.NET)

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 [bellhowell.net](http://bellhowell.net)

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