**VExPrT® (Vision Executive for Production Test)** is an advanced turnkey hardware and software platform for automated visual inspection of manufactured parts.

Fast, safe, and reliable inspection of manufactured product features including bar codes, labels, colors, configurations, and complexities that cannot be measured manually. By automating production processes, manufacturing facilities can increase quality, accuracy, and compliance with standards and regulations while reducing their operating costs. The challenge is to ensure the vision inspection system you choose has the flexibility to adapt to your changing needs.

VExPrT®, from Data Science Automation, is an industry-leading automated vision inspection platform that can be configured to suit your organization and operational needs.

### Features & Benefits

- Uniform lighting for consistent inspection performance
- Eliminates variations in ambient lighting
- Accommodates multiple color USB cameras for viewing manufactured parts from various angles
- Completely customizable
- Database connectivity for retaining inspection data and storing test results
- Adaptive inspection & configuration
- Integration with print & apply for packaging applications
- Custom data entry interface
- Reduced algorithm footprint
- Regression testing on stored image sets when the algorithm are revised

*We are Automating and Educating the World’s Leading Companies.*
How Our Platform Works.

VExPrT has a user-friendly interface for selecting configuration profiles as well as creating new ones. The configuration-based approach enables the user to manage vision inspections more efficiently through simple switching between parts and inspection options. Tested parts that share the same or similar features can utilize the same vision inspections rather than creating new ones for each manufactured part.

VExPrT does not rely on fixed region of interest (ROI) configurations. It can dynamically set the ROI for each inspection making the inspection algorithms more adaptable for inspecting similar features. It can search for bar codes located anywhere on the manufactured part, find crooked labels, and adapt to a variety of other variations. Inspection images are acquired live and passed or failed while allowing the operator to override if needed.

The software utilizes National Instrument’s LabVIEW as the basis for the vision system along with Vision Builder for Automated Inspection (VBAI) which provides a simplified environment for creating customized vision inspection algorithms that identify bar codes, characters, absence & presence, alignment, colors, and other features of manufactured parts.

With the addition of NI’s Vision Development Module, manufacturing processes will yield maximum flexibility in post-processing of images.

When you integrate VExPrT into your manufacturing production line, you are not simply adding static hardware and software. You are adding a solutions platform to gain more accurate, validated data for one hundred percent of parts moving down the line. Moreover, you’ll achieve a greater probability of identifying and removing every defect from the production stream.

Increasing productivity while reducing total cost of ownership is just a phone call away. Data Science Automation is a premier automation systems integrator with the technical expertise and experience to design, control, test, and adapt a solution that fits your needs today, tomorrow, and in the future.

To learn more visit www.DSAutomation.com or call now and close the loop 724.942.6330.