

## MEDICAL DEVICES

# Automated Vision System Solutions for the Medical Devices, Pharmaceutical, Healthcare and Printing & Packaging Industries

Industrial Vision Systems Ltd (IVS®) is a market leader in the development of automated machine vision solutions for the medical devices, pharmaceutical and printing & packaging markets. IVS offers an unparalleled suite of vision system solutions designed for high-speed inspection and integration into the latest generation production lines.

IVS solutions and technology power the vision systems of global medical device and pharmaceutical manufacturers around the world. Advanced technology reinforced with a global commitment to service has allowed IVS to become an industry leader for automated visual inspection.

Using IVS solutions, today's production engineers can take advantage of vision system tools that facilitate shop floor integration through simple, integrated user interfaces and better facilities for powerful analysis and immediate visibility of process state and issues relating to real-time quality control.

## Applications

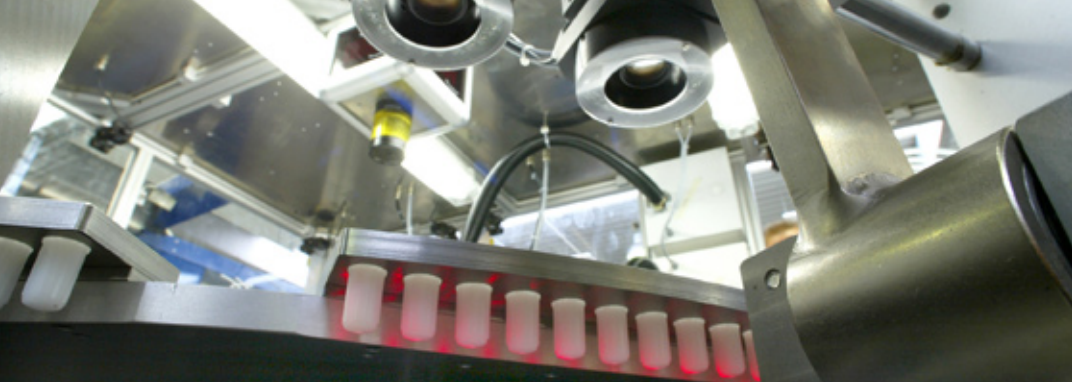
- Medical device dimensional inspection
- Product defect detection
- Batch, lot and date code reading & verification
- Label placement confirmation and alignment checks
- Print and text quality inspection
- Feature presence verification
- Component code verification
- Surface inspection for contamination
- Colour verification
- Product traceability
- Bar code and data matrix code reading



## Key Benefits

- Compliance with GAMP, FDA, EU and other regulatory requirements within the pharmaceutical, medical devices and packaging sectors.
- Complete portfolio of camera resolutions and processing options for high precision vision solutions.
- Recipe driven workflow, reject control management and comprehensive suite of control options for production line communication.
- Comprehensive audit logs to provide assurance of procedural control and regulatory compliance.
- User friendly graphical interface for production line control.





# NeuroCheck® MACHINE VISION SOLUTIONS

Our industry leading NeuroCheck software is a powerful, easy-to-use machine vision inspection solution specifically targeted for the modern manufacturing environment. Intelligent digital camera technology combined with the most up to date software on the market today gives IVS reliable automated inspection solutions across the entire production line.

NeuroCheck is a ready-to-run machine vision solution so no custom development or coding is required. Our versatile user interface gives the customer quick and rapid results utilising some of the most advanced vision algorithms currently available including built-in Neural Network classification, Optical Character Recognition (OCR), Optical Character Verification (OCV), Print Quality Inspection (PQI) and Gauging & Measurement Wizards.

## User friendly

All levels of personnel will understand the user friendly graphical interface using simple touch screen menu control for production line operation.

To promote consistent coordination of complex vision processes that reach across shop floor manufacturing, the IVS vision suite of solutions enables and simplifies collaboration and vision communication

through the unique NeuroCheck graphical user interface deployed on the shop floor.

## Seamless integration

NeuroCheck grows with your requirements with the support of a full range of camera resolutions and speeds. Seamless integration into production lines and processes is possible with direct support for all standard production line communication protocols to allow automatic rejection of failed parts.

NeuroCheck conducts device set up control, recipe-driven workflow and integration of third party online devices to ensure integrated quality control and reject station management.



## Regulatory Compliance

IVS solutions offer multi-level access control and security protection, with built in compliance features. Our solutions exceed all 21 CFR 11/210/211, GMP and GAMP requirements. Validation is provided as part of the vision system installation. Each validation project is unique and requires a planned and targeted approach. We assess the individual validation requirements of a project through a process of risk assessment. All necessary project and validation documentation is developed using our standard templates and formats, or your own as required.



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NeuroCheck is in use in thousands of mission critical production processes around the world across a range of applications areas. Our user base includes many of the Top 100 Medical Devices, Pharmaceutical, Healthcare and Printing & Packaging manufacturers.