

## AUTOMOTIVE

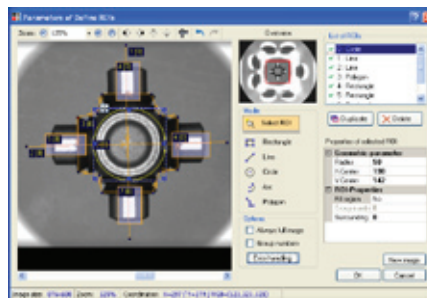
# Automated Vision System Solutions for the Automotive Industry

Industrial Vision Systems Ltd (IVS®) is a global leader in the development of automated machine vision solutions for the automotive industry. IVS offers an unparalleled suite of vision system solutions designed for high speed inspection and integration into the latest generation production lines. Our integrated vision solutions provide manufacturers with total quality inspection on all plant floor operations so they can guarantee 100% quality to their customers.

Using IVS solutions, today's automotive 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

- Presence verification of components
- Verification of sub-assemblies
- Gauging and measurement of automotive components
- Bead and seal verification
- Component code verification
- Character and pattern recognition
- Type verification
- Surface inspection
- Colour analysis
- Product traceability
- Product defect detection
- Error proofing component assembly
- Print and text inspection
- Shorts and flash detection
- 2D and 1D code reading



Ident-No	Test	Measure	Nominal Value	Tol+	Tol-
0	Depth of thread	7.313	7.250	0.250	-0.250
1	Depth of thread	7.416	7.250	0.250	-0.250
2	Thread diameter	35.000	305.000	1.000	-1.000
3	Length of hex	264.475	264.000	0.750	-0.750
4	Width of bolt head	119.374	119.000	0.500	-0.500



## Key Benefits

- Complete portfolio of camera resolutions and processing options for high precision vision solutions.
- Single and multi-camera systems.
- 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 solution 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.

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.

Unlike the human eye, our solutions can perform checks with 100 per cent

constant quality, around the clock. Gauging and identification tasks are performed with high accuracy. Even the smallest, almost invisible defects are reliably detected at higher inspection speeds. Customer complaints can be avoided, manufacturing rates increased, and human resources deployed more efficiently.

## Versatile

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

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



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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 automotive manufacturers and Tier One suppliers.