

APPLICATIONS & SOFTWARE

System Solutions & Software for Industrial Vision





APPLICATIONS

Complete stations for visual inspection in production

More than 20,000 applications

Industrial vision is quality control by automated, optical inspection during the production process. Against this background, our highly qualified engineers develop efficient and reliable inspection solutions with application potential over the entire range of industrial visual inspections tasks. The basis for this are closely integrated concepts that guarantee smooth interaction of illumination, optics, camera, and evaluation software. No matter the section of industry, we offer quick implementation, reliable processes and the highest level of quality in execution.

Bernd Streicher-Abel
Managing Director

"Since the company's foundation in 1993, problem solving competence, low investment risk and comprehensive service have been the foremost requirements of our customers. That our customers from back then are still our customers today is testimony to the fact that we have been able to fulfill these requirements from day one."



SOFTWARE

Application Software for Industrial Vision

Globally established

We combine software and application. This makes for a unique combination and allows for know-how and experience from industrial applications to find their way into development and optimization of the NeuroCheck software. By using the latest technology, our standardized image processing software is a future-proof investment. The easy configuration of the complete application and the smooth interaction of globally established hardware and software standards make our solutions what they are: Reliable and successful.

Dirk Zinnäcker
Managing Director

"Our highly qualified team uses up-to-date development tools. No software module is released before having been tested in our separate laboratory. Robustness and reliability are tested in a long-time trial."

Leading solution provider of turn-key solutions



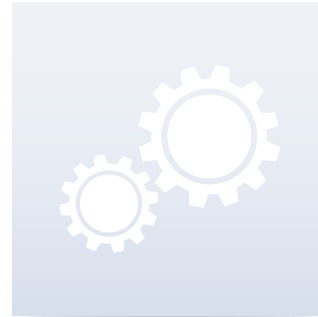
Experience & Innovation

For more than 25 years, NeuroCheck has been developing innovative system solutions for visual quality control in the manufacturing industry. For the implementation of turn-key visual inspection solutions and inspection facilities, our highly qualified team of image processing experts can advise customers in a competent way.



Qualification & Success

Our software product NeuroCheck has been established on the market as the leading visual inspection system for industrial production. As a systems house we create synergies from software development and application experience, thus benefiting both business sections and our customers to a high degree.



Hands-on & Service-oriented

Services of our business range from comprehensive consulting, technical support to our hands-on training courses, where participants get to know the extensive functionality of image processing within the NeuroCheck software.



Regional & Global

The headquarter of NeuroCheck GmbH is in Remseck near Stuttgart, Germany. Together with our international distributors in more than 10 countries, we have become one of the reliable, globally operating partners of the manufacturing industry. NeuroCheck GmbH is a member of VDMA (Mechanical Engineering Industry Association).

System solutions for industrial inspection tasks

Turn-key system solutions are created in our engineering center. Experienced and highly qualified engineers develop applications for industrial vision in manufacturing processes. Apart from competent advice, you'll get from us carefully selected components that complement each other in an optimal way. Software, hardware components and comprehensive service combine to provide future-proof camera inspection systems for extremely varying industrial applications in the automotive and automotive supplier industry / machine manufacturing, electronics, cosmetics, medical technology, pharmaceutical industry, photovoltaics and robotics/3D.



NeuroCheck system solutions can be found world-wide. This necessitates collaboration with international system partners. We offer global consulting, training, engineering, installation, service, remote maintenance and support.

Areas of application



Presence verification
Inspection of assembly groups for completeness



Identification
Automatic recognition of bar codes, 2D codes or OCR



Surface inspection
Inspection for various properties



Print inspection
Verification of correctness of printed data



Assembly checking
Inspection of assembly groups for correctness of orientation and components



Robot guidance
Complex inspection tasks involving dynamic processes with high numbers of variants



Color recognition
Recognition of color differences during the production process



Pattern recognition
Inspection of graphical/geometrical elements and text patterns



Gauging
Contactless and automatic gauging of inspection parts

Application software for Industrial Vision

To develop a powerful and easy-to-use platform for industrial image processing - that was the challenge we set ourselves upon the founding of our company in 1993. The result is NeuroCheck, the software product whose unique architecture makes the development of image processing applications as easy as never before. With each version, our customers have at their disposal the comprehensive know-how we have so far developed in years of practical experience developing optical inspection systems for industrial manufacturing.



The NeuroCheck software combines unique properties that decidedly set it apart from its rivals. Universally applicable, the image processing software is the solid basis for high-performance system solutions.

Flexible

After only a short time, complex solutions for the whole area of industrial visual inspections can be created by combining functions.

Interactive

The entire design process takes place in an interactive graphical way in a modern user interface. For the user this means shorter development cycles and higher reliability compared with traditional programming.

Scalability

NeuroCheck is scalable at will: From pre-configured compact miniature PC systems to networked multi-camera inspection systems. Thus, a uniform software standard can be established throughout production, minimizing adaptation, training and maintenance costs.

Integrated

The integrated development and runtime environment with built-in process integration enables configuration and optimization of inspection systems directly at the production line. This allows you to react immediately to any change in the process.

Expandable

NeuroCheck can be expanded in any direction. Customized user-interfaces, data base connectivity, additions to the built-in functionality are only some of the many possibilities of NeuroCheck.

Customer service for satisfied customers world-wide

We are convinced that excellent customer service is part of preserving the value of our system solutions. Prior, during and after designing, we offer various service features to guarantee our customers' satisfaction. We emphasize personal support to target our customers' requirements. Long-term experience and global know-how come together in system integration and operator training, maintenance and in situ troubleshooting. Our international network of partners in more than 10 countries guarantees closeness to our global customers. Thus each user all over the world benefits from



personal project and technical support in their native language and local training and service.

Consulting & Service

In any area, NeuroCheck GmbH provides experts with years of experience as competent consultants to our customers. Our company's service features range from consulting and feasibility studies, engineering and project design to deployment and maintenance/remote maintenance of our turn-key industrial vision solutions.

Training courses

Our training courses impart hands-on expert knowledge for real-life use to demonstrate the optimal operation of NeuroCheck software and our inspection systems. For our customers, we offer the following training courses:

- Software Training
- Hardware Training
- System Training
- Operator Training

Technical Support

Continuous optimization of the NeuroCheck software is an integral part of the reliable performance of our industrial vision solutions. We provide new software updates and service packs on our website to guarantee the performance of our system solutions at any time. In our global network of partners, our highly-qualified specialists support our customers in technical and application-specific matters.

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