



VisionTools V60

THE POWERFUL IMAGE PROCESSING SOFTWARE - MATCHING ALL CASES.

What is VisionTools V60?



Powerful and reliable Image analysis software - developed from 30 years of experience in industrial use.

Industrial image processing makes automated processes easier to control and safer. Whether parts control in manufacturing or exposure in the assembly, if guiding a robot for loading / unloading of carriers or the presence control of pharmaceutical products in blister packs, if reading Data Matrix codes in material flow and logistics processes or comparative measurements of supplied parts in the incoming goods inspection - the reliable use of V60 in thousands of industrial facilities speaks for itself.

VisionTools V60 is a powerful software package for industrial image analysis, which was especially developed for industrial automation process. In connection with an industrial computer, cameras and lights, V60 is used to implement complete image-processing solutions, including process control and communication with master control systems. With the standard image processing software V60, you can both solve simple tasks and carry

out complex large-scale projects with several cameras and 3D scanners.

Flexibility

A project implementation is done entirely in V60 without programming.

By setting and freely combining practice-approved basic modules from an extensive library of own 2D and 3D evaluation methods and objects, the process sequence control of a project is created.

This provides V60 maximum flexibility for the optimal design of individual solutions for demanding tasks and projects.

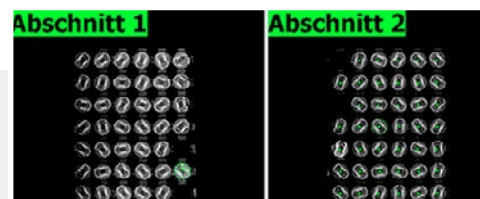


Hardware support

Several popular camera models and interfaces to higher-level machine control are supported. The connection to individual machine data acquisition systems for statistics and data security systems is also possible.

Project example: Determining the position of pistons on pallets

A 3D-camera system determines the position of pistons, stacked on pallets. The position coordinates of each piston (X, Y, Z, rZ) are transferred from V60 to the robot so that these can be grabbed by handling.



V60 - System properties

- Project realisation **without programming language** by interactive assembly of objects for an automated image analysis including process sequence control
- **Wide range of application:** standard modules of small parts measuring up to complete engine control and robotics
- Usable with popular 2D- and 3D camera systems - GigE / USB / Analog (Framegrabber)
- Powerful and robust **2D- and 3D-Image analysis tools**
- High functionality with **extensive object library**
- Clear and modular specification of the overall project
- **User management with password protection** and various user levels
- Display of up to **32 image memory pages**
- Creating and **managing of image collections** according to any criteria
- Extensive **application visualisation** with overlay graphics, text, charts, tables
- **Menus** and forms can be customized and **designed for specific projects** for dialogue with the end user
- **Interface- and variable-monitor**
- **Plugin-interface** eg usermanagement with Euchner-Key
- Extensive **online help** and **a basic tutorial** for project creation and object description
- **Languages:** German and English, expandable via library with any language

Project example: Angle determining for matching of tires

To compensate the so-called concentricity tolerances of a tire, the tire is moved to the rim by exactly the angle until the deviations of concentricity are balanced in horizontal and vertical directions.

Task: Possibility to teach-in various type features for different tire and rim-types and sizes. Match marks and coloured rim dots on tires need to be detected to determine the angle at which the tire must be matched.

Camera system: Capturing single images of the colors red, green and blue with a 2D color camera into different memory pages.



Solution: By combining the individual color channels, certain colors can be highlighted or specifically suppressed - the optimal conditions for a reliable process to determine rim and tire dots. The teach-in of new variants can be done with user guidance through dialogue with just a few clicks.

30 YEARS OF COMPETENCE

VisionTools is one of the leading system suppliers for industrial image analysing systems - since 1986. The powerful and efficient image analysing software V60 works perfectly together with systems of all branches of industrial product engineering.

V60 Image Analysis Software

Applications

- **Robotics - Position detection 2D/3D**
- **Adhesive bead control - online/offline**
- **Completeness- & assembly control**
- **Form control - Surface control**
- **Identification by codes or plain text**
- **Type distinction**

Areas of application

- **Automotive- & mechanical engineering**
- **Electrical appliances industry**
- **Packaging industry**
- **Food industry**
- **Pharmaceutical industry**
- **Plastics industry**

System requirements

- **Processor:** Pentium4 - 1 GHz or higher
- **RAM:** 2 GB (4 GB recommended)
- **Hard drive space:** 250MB HDD for software installation (40GB for data storage recommended)
- **Screen resolution:** 1024x768 or higher
- **Operating system:** Windows 7, Windows Embedded, Windows 10
- **Interface:** USB port for the connection of the supplied Dongle for query of the V60-licence



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