



Aufbau Messvorrichtung – LabView Applikation

## MANUAL GEOMETRY CHECK FOR EXACT MEASUREMENT

Die optische Vermessung von Produkten ist wesentlicher Bestandteil einer Produktion. Eine intuitive Messvorrichtung via LabView mit digitalen Kameras.

### Measuring method (Box-system)

In that case the measuring object should offer a defined position and should not exceed specific limits. In case of a manual check a car lamp is put into the measuring equipment and the coil position as well as the coil size is checked with the help of a red pictured box. The coil is photographed from both sides (0° and 90°) in order to check the position in all levels.

### LabView application with Vision components

The LabView application runs on a PC that is again equipped by a firewire card of National Instruments. Pictures of the cameras are continuously taken and shown on a monitor. In the starting picture of the application different product types can be chosen, every product has its own values for the box-system. The position can be adjusted in a calibration level by means of a groove that measures the reference measurements. There the values for the different product types can

be recorded and new product types can be established. All values are recorded in files and can also be edited by using other programs.

### Possible extension variants

This system can certainly be extended and can be used for several or other products. A connection to a data bank is also possible. By that product data can be recorded from another place respectively measuring protocols can be released. Via a local printer measurement protocols can be printed out immediately at the system. A communication with other control systems via TCP/IP is also possible to change parameter in a production line.

### Flexible structuring by wide range experience

The team of Quality Automation GmbH relies on wide range experience to realize a flexible integration of the systems for the customer.

### Our Philosophy

Only if our systems are integrated at the customer completely they develop their entire performance potential. Therefore it is important for us that our customers are integrated in the process from the very first day of the project carry out. Communication is about it the most important connecting part between us and our customers.

### Customer targets

- Maximum production efficiency and quality
- Stable industrial processes
- Well trained personal
- Low service costs
- Most favourable conditions

## ÜBER DEN AUTOR



**Christof Lutterbach**

*Employed as software developer at QA since 2001. Key aspects of activity: SPS-, LabView-programming, camera systems.*