

Product description

Automatic color identification / colour detection

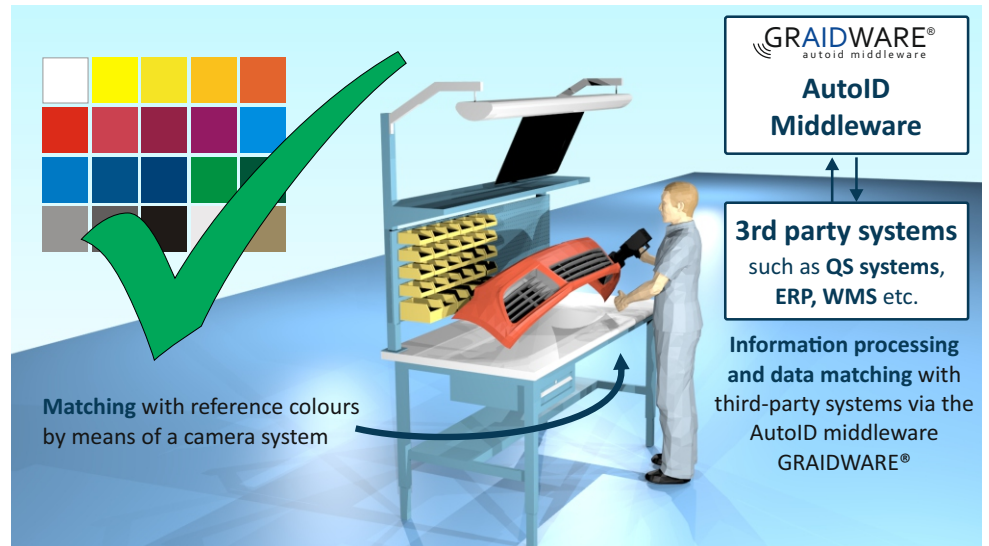
Description

Automated colour identification operates by recognising the colours on surfaces by means of a camera system. In this process, either the camera system is moved to the product or the product whose colour is to be identified is put on the camera system. Defined illumination around the camera allows for the surrounding area's brightness to be reproduced uniformly, resulting in optimal recognition.

The recognised colour is matched with a reference data base, and the result is output visually or acoustically.

Additional colours can be learnt easily by the system and the respective data added to the reference data base.

This system can be used both in the quality assurance process and in production. Thus, for instance, it is possible to inspect the correct coincidence of colours both of parts to be mounted and the basic product. In quality assurance, automated colour identification can be used, for instance, in order to recognise colour deviations after varnishing or in the backup process (such as in the case of damaged barcode or RFID labels).



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Advantages

- Detection of even minor colour deviations
- High process reliability. Mistakes that could result from human visual inspection can be avoided.
- Automated linking of product parameters with AutoID marking

Examples of application

- Support of the production process
- Quality assurance in the backup process (for instance, if using RFID labels that are no longer visible in the follow-up process)
- Inspection of the exact colour match between add-on parts and the base part

Functions

- Option to teach the system to recognize additional colours
- Optional: visualisation of the recognised colour
- Optional: comparison/ matching of the recognised with an expected colour (for instance, matching with information stored in the preceding varnishing process)

Components

Hardware

- Embedded computer
- Camera system
- Adapter with luminescent source

Software

- GRAIDWARE[®] add-on module colour recognition

System requirements

- Ethernet connection
- Power supply 220V

Licensing

- GRAIDWARE[®] Basic license for the location
- Firm basic license for colour recognition
- Client software for each camera system

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