

Vision System for reliable quality control of printed data

HIGH PRODUCTION RELIABILITY

Large-scale product recalls and complaints about goods that have been delivered are enough to give any manufacturer nightmares. However, it is possible to detect products that are incorrectly or incompletely marked as early as during the production process. The LEIBINGER V-check Vision System does this by automatically comparing printed data such as letters, digits, logos or images against a reference sample, guaranteeing high production reliability. This quality control not only ensures long-lasting product quality but simultaneously increases customer satisfaction and saves money in the long term.

100% INSPECTION OF PRINTED DATA

V-check enables 100% inspection of elements that have been selected beforehand. Consequently, texts, use-by dates, serial or lot numbers, among others, undergo a strict quality inspection or presence check. V-check immediately sends a signal to the LEIBINGER inkjet printer when it detects incorrectly encoded products. The printer is capable of activating additional systems to stop the production line or inform the operator using corresponding sound or light signals, for example. The LEIBINGER monitoring system ensures that only goods which are completely and correctly marked are shipped to customers.

IMMEDIATE START THROUGH EASY INTEGRATION

The V-check, consisting of an image sensor and a handy 3.5 inch touchscreen display, is used in combination with the LEIBINGER inkjet printer series JET3up and JET2neo (also available as a retrofit kit). To do so, the space-saving image sensor is installed on the printhead and the docking station of the touchscreen display is installed on the printer. However, the ergonomic display still remains flexible. It can easily be removed from the docking station and be operated hand-held. The V-check integration is carried out quickly and easily, because all required cables and racks are included in the complete set. No computer is required.



PERFECTLY INTEGRATED SYSTEM

As a result of the constant data exchange between the V-check and inkjet printer, the image sensor knows the exact position of each encoding. The printer benefits from reliable acquisition of sensor data and, where necessary, can trigger additional actions (e.g. warning signal, print stop). Many settings for the image sensor are configured directly in the printer menu.

USEFUL EVERYWHERE

The Vision System can be installed anywhere LEIBINGER inkjet printers are used for encoding and marking, e. g. in the packaging, food, beverage, printing, extrusion, electronics, plastics or automotive industry.

GOOD REASONS FOR LEIBINGER V-CHECK

- Complete system consisting of touchscreen display, image sensor, racks, Reflection tube and wire harness
- Fast and easy integration through direct connection to LEIBINGER JET3up and JET2neo inkjet printer series
- Mutual data exchange between V-check and inkjet printer makes operation and the monitoring process easier
- All software licenses included

TECHNICAL SPECIFICATIONS

TOUCHSCREEN DISPLAY	
Display	Removable 3.5 inch color touchscreen display
Display resolution	320 x 240 Pixel RGB
Viewing angle	60 degrees left and 60 degrees right; 50 degrees up and 55 degrees down
Operating Temperature	0 °C to +50 °C (+32 °F to +122 °F)
Environmental Rating	IP 20
IMAGE SENSOR	
Imager	1/3 inch CMOS 752 x 480 Pixel
Lens Mount	8 mm lens (LMF8)
Reading rate	max. 30 frames/second
Inspection area	30 mm x 22 mm (adjustable)
Sensor housing	Black PBT metal housing
Integrated Ring Light	LED, color white
Operating Temperature	0 °C to +40 °C (+32 °F to +104 °F)
Environmental Rating	IP 67
Lighting kits are available as an option.	




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