

LKS



Control and Identification Systems



For each application the right solution

Monitoring, tracking, controlling, comparing and logging with the innovative LEIBINGER camera systems



Mailing production

Whether personalized long run production or ambitious, target group oriented mailings, the LEIBINGER camera systems LKS 5 takes over the check for **completeness** of the entire product. It starts with the control of the correct address, where the controlled address is being matched with the original data of a data base. Then it continues with the **product tracking, data verification** of conducted products and the **check of their position**.

The **read-to-print** function identifies already printed data such as variable alphanumerical characters or 1D- and 2D-codes and controls a downstream printer.

Incomplete products are recognized reliably, traced in the further operation schedule and rejected safely. The **postal code control** reduces mailing costs to a minimum and provides a shorter delivery time.

The entire production is saved in a log data file for complete

recording.

Print and print processing

Web-press and sheet-fed products, conventional and digital

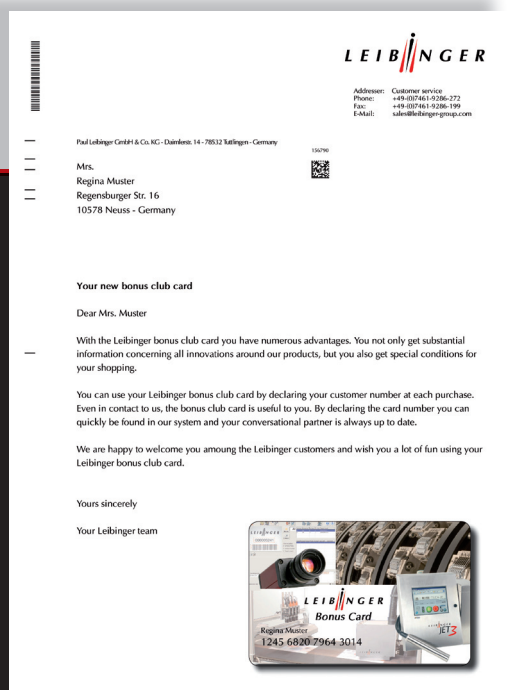
The LEIBINGER camera systems **monitor and control variable imprinted digits, characters, 1D- and 2D-codes** and check the **presence** of certain features. If the camera identifies an incorrect product, additional systems are activated, e.g. for subsequent marking or **rejecting**.

Collecting / Assembling / Inserting

Statutory provisions require from many companies the delivery of information to their customers, such as instruction manuals or documentation, complete, in the right sequence as well as in the correct language version.

The LEIBINGER camera systems take over this **control**. At the binder or the assembling machine, the folded sheets are checked in the feeder. Besides the current **barcodes**, also **2D-codes, logos or texts** are read. The **sequential control** makes sure that even the single sheets are put together in the correct sequence.

For internal quality control or verification for the client, a **production log** can be produced.



Folding

Instead of blank sheet detectors or code-readers, more and more camera systems are installed on folding machines. They **identify empty sheets, falsely inserted sheets, read 1D- and 2D-codes, control text parts and logos.**

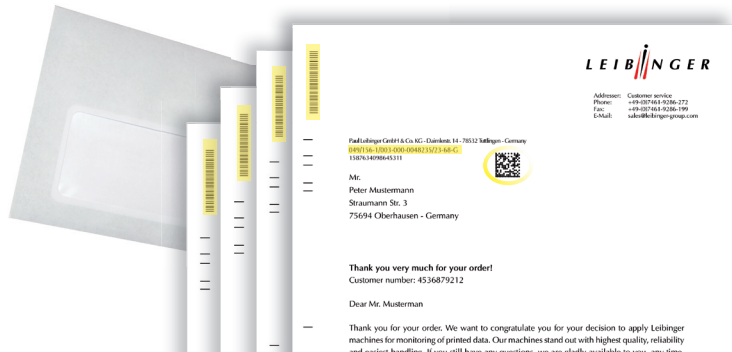


In case of error identification the folding machine stops on demand or a divert gate is activated. On demand the camera systems produces a production log file.

Enveloping and sending

Personalized products are put together in enveloping machines; the **data verification** is reliably done by the LEIBINGER camera systems. This is carried out by **identification of 1D- or 2D-codes** or by matching of alpha numerical characters.

If you want a **log file** of the enveloped and ready-for-shipment products, the LEIBINGER camera system saves all individual addresses via barcodes or variable imprinted lines. In the mailing sector, the LEIBINGER camera system is applied for **postal code control** in various delivery systems, such as shingle conveyers and stackers.



Packaging

Fixed or variable data such as best before date, shift codes, lot- and batch numbers, 1D- and 2D-codes are imprinted on a wide range of different packagings and materials. **Reading and verifying** of this information is carried out fast and reliably by the LEIBINGER camera systems.



Industry generally

Together with the cameras, LEIBINGER also offers the suitable marking systems. The LEIBINGER inkjet printers mark and code all sorts of products safely and reliably. The plug-and-play system JETvisio offers beyond that the perfect combination of camera system and inkjet printer for printing and controlling of the most different information.

In addition to that, the camera system LKS 5 can be integrated in any production line, for **monitoring and controlling** of marked parts or for completeness check

Security / stocks and bonds

Highest security demands must be met by products such as lottery tickets, license keys, banknotes, credit- or telephone cards, stocks and bonds, tickets or pharmaceutical products. For all these applications, LEIBINGER as the world's leading manufacturer, delivers numbering systems, inkjet printers and camera systems. The fixed or variable imprinted alphanumeric characters, 1D- or 2D-codes, logos and texts are verified at a 100% with the LEIBINGER camera systems. This is carried out by pre-defined reading modes or data files. To protect the system against unauthorized access, individual user permissions are available, such as passwords, access authorization or electronical signatures. By saving the log file, user changes and production results are saved.

The LEIBINGER camera systems are validation capable according to FDA and CFR part 11.



Hardware	LKS 5 light	LKS 5	LKS 5 Security	LKS 5 LineScan
CCD matrix camera, resolution 656 x 494 pixels	●	●	●	up to 2048 Pixels
Standard lens 16 millimeter with fixable shutter and focus	●	●	●	35 mm
Standard LED light source, red	●	●	●	●
Applications specific light source	○	○	○	●
Desktop PC	●	●	●	●
Industrial PC, 19"	○	○	○	○
Embedded PC	○	○	○	○
TFT display 17" with base	●	●	●	●
Touch screen display 17"	○	○	○	○
Product sensor with bracket	●	●	●	●
Standard traverse	●	●	●	●
Cable for camera and lighting	●	●	●	●
System box for signal attachment (warn, stop)	●	●	●	●
Controller for divert gate (only with industry PC)	○	○	○	○
Software				
Operating system Windows 7 Ultimate	●	●	●	●
Ports LAN / RS 232, input for camera triggering, control signals for customer applications (machine stop, alarm)	●	●	●	●
25 pictures/second	●	●	●	up to 4096 lines per picture
Up to 70 pictures/second	○	●	○	
2 reading windows/camera	●	●	○	●
Additional reading windows	○	○	○	○
Automated adjustment of lighting differences	●	●	●	●
Demo- and learn-program	●	●	●	●
Barcodes: Code 39, Code 128, Interleaved 2/5, PCN, EAN, UPC, CMC7, Postnet	●	●	●	●
Teach-in function of writings and patterns	●	●	●	●
Import via data port	●	●	●	●
Monitoring of desired results in a data base	●	●	●	●
Verification of plain digits with variable digit sequence	●	●	●	●
Verification of plain writing with fixed and variable string	●	●	●	●
Identification of logos and labels	●	●	●	●
Verification of 1D- and 2D-codes with variable content	●	●	●	●
Sequential control	●	●	●	●
Recording of error patterns	●	●	●	●
Logging of errors and management	●	●	●	●
Logging of the production	●	●	●	●
Job management	●	●	●	●
User log	○	○	●	○
Semi-automated setup	●	●	●	●
Higher resolute camera 1032 x 778 pixels	○	○	○	○
Higher resolute camera 1628 x 1236 pixels	○	○	○	○
Sensor controlled product tracing	○	○	○	○
Software for reading 2D codes, DataMatrix, PPN, PDF417, QR, EAN	○	○	○	○
Validation capable system according to FDA and 21 CFR part 11	—	—	●	○
Signal lamp	○	○	○	○
Rack for integration of the computer	○	○	○	○
Integration of computer, system box, display in a mobile rack	○	○	○	○
Second camera	○	○	○	—
More than two cameras	—	○	○	—
LEIBINGER quicksupport	○	○	○	○

○ Optional ● Standard — not included

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