Case Study

MotionBLITZ® LTR1p System: pharmaceutical packaging with more efficiency

Cluster data statistically and correct errors systematically

In respect to the packaging of medication, pharmaceutical manufacturers have to fulfil complex, ever increasing demands concerning the efficiency of their packaging processes. Also, specifically regarding hygiene and safety there are extremely high standards in place. Fast and reliable process chains achieved by systematic process monitoring are key success factors.

Due to its continuous long-time-recording capacity, the MotionBLITZ® LTR1p Long Time Recording High Speed System offers an essential advantage in this context. A complete and gapless process monitoring enables permanent improvement of the entire process chain. While the error rate is thus declining, the efficiency and profitability of manufacturing increases. Due to this effect an amortisation of the MotionBLITZ® LTR1p purchase costs within one year becomes feasible.

Its outstanding image quality, easy handling and mobility have been additional decisive criteria for choosing the MotionBLITZ® LTR1p System.

The application scenario

Our client's pharmaceuticals packaging displayed a reoccurring error rate. Specifically during the introduction of new packaging solutions there often appeared singular empty units or other errors with blister packs (transparent display packaging) and trays (secondary packaging). A regular pattern though was not traceable.

The task

The primary aim was to optimise the entire packaging process and to increase the overall efficiency. A seamless process monitoring was to detect occurring errors as well as their causes and identify interference points. Following this survey the processes were to be adjusted and optimised accordingly.

The customer benefit

The customary high-speed recordings with just a few seconds of recording time would not do here. Even with longer lasting processes only singular moments would be captured and never the entire operation. If errors thus only occurred sporadically, they may actually never be registered.

In contrast, the MotionBLITZ® LTR1p System records processes in high-speed and over an extended period of time. Errors become clearly visible during the duration of the recording and can be captured via clusters. During analysis this then also allows for statistical conclusions about the error rate. This proceeding is obviously indefinitely repeatable to continuously improve all processes.

MIKROTRON GmbH in Unterschleissheim near Munich develops, produces, and markets digital high-speed cameras, image processing components, and high-speed recording systems for industry, research, and development worldwide. As a specialized activity for industrial image processing, Mikrotron also markets industrial cameras of leading manufacturers, as well as image processing software.

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Case Study

MotionBLITZ® LTR1p System with MC 1362 camera - All advantages at a glance

- Excellent image quality: Up to 55 minutes recording time at full resolution (1280 x 1024 Pixel) and speed (506 fps)
- User-friendly: easy to operate Windows based MotionBLITZ® Director2 user software
- Flexible: Quad Mode permits quadruple speed or recording duration
- Concise: Marker function during recording marks individual images
- Compact: with dimensions of just 51 x 39 x 24 cm it very flexible and mobile

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