

The worldwide first certified volume measurement of black tilt tray sorter in the USA

The certified volume measurement of products with rectangular form in the USA is now possible even for the kinds with black tilt trays. The packaging service providers use the measurement system VOLUME HS2s as part of their VIPAC identification system for the optimization of logistic processes. Additionally, the system

enables revenue recovery for the shipment of the parcels. VOLUME HS2s is certified by the National Conference on Weights and Measures in the USA. It bears the certification number NTEP CC 08-055. The new VITRONIC technology enables the certified volume measurements of tilt trays at speeds of up to 3m/sec (590fpm).

Chronopost installs VITRONIC technology

After performing extensive comparison tests, the French logistics company Chronopost decided in favor of the camera-based identification technology from VITRONIC. In its new distribution center in Chilly-Mazarin, up to 30,000 packages per hour are sorted at during peak times. In total two tilt-tray sorters each use two VIPAC systems. Five cameras per

system automatically read barcodes and two-dimensional codes (Datamatrix and PDF417) on five sides of the package at conveyor speeds of 2.5m/s (490fpm). This is possible thanks to the – amongst other factors – very fast and dynamic lateral focus which adapts itself in real time to any package orientation. In addition, Chronopost has also implemented

the user-friendly archiving system VIPAC^{archive+} with Web interface. It is used for analysis of the NoReads and offers the possibility for optimization of the reading rates.

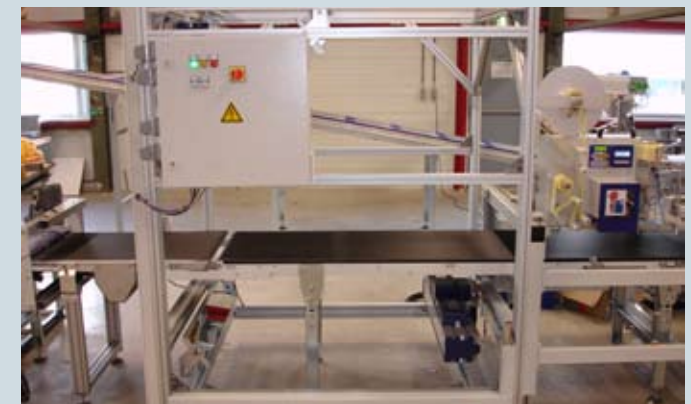


Identification for sorting books, CDs and DVDs

The Dutch mail order company HIS is a distributor of CDs, DVDs and books. The company runs its distribution centre from its location in Hoorn, the Netherlands. The company wanted to automate its sorting processes and, as such, requires goods to be unambiguously identified. The sorting is performed on the basis of the unambiguous identification of a barcode which can be located on the top or the bottom side of the object. A particular challenge: even shipments, which are lying

close to each other, have to be properly identified. The camera-based barcode-reading VIPAC system provides just the custom-tailored solution: unlike the classical laser scanner, capturing images can be done through a small opening of only 25 mm (1inch) in the conveyer belt towards the bottom side of the object. The barcodes on the top side of the object can be read out with highest reading rates even under film.

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Identifying and sorting internal mail

The Spanish bank "la Caixa" runs a distribution center for internal mail at its main office in Barcelona. The outgoing mail is sorted and forwarded to the relevant branches. The sorting is performed on the basis of the unambiguous identification of a barcode. If the information contained in the barcode is not sufficient, more details can be collected by reading

the plain text (OCR). The objective of the bank is to sort and deliver the internal mail in a fully-automatic and reliable manner. Relevant data must be archived for internal follow-up purposes. The VIPAC camera-based identification system reads barcodes with the highest reading rates and archives images for internal follow-up.

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When does the use of camera technology make more sense than the use of a laser scanner?

In the field of intralogistics, cameras and laser scanners are used for the identification of barcodes. For some applications, a standard laser scanners give sufficient results. Many users only find out whether the use of a camera is advantageous after direct comparison of the two systems. The advantages of camera-based

systems have been summarized in a detailed report. It describes both identification technologies and shows application scenarios in which the camera technology has clear advantages.

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A laser scanner scans at conveyer speed of 2m/s (390fpm) with a sampling rate of 5 scans per 10 millimeters (0,4inch) (above left).
 A camera scans at conveyer speed of 2m/s (390fpm) with a sampling rate of up to 150 scans per 10 millimeters (0,4inch) (above right).

Experts of tomorrow

VITRONIC has, for many years, supported initiatives which inspire young people to follow technology-oriented careers. In previous years the company has, amongst other things, invited students on operational visits to its production centre, or has sponsored construction kits for schools. This year VITRONIC gave the chance to interested students to learn about and experience High-Tech technologies with visits to the CeMAT and AUTOMATICA trade fairs in Hanover and Munich. Both groups of pupils were accompanied by VITRONIC employees. When questioned, students commented that the trips had provided invaluable assistance for their career planning. Be it, whether it had reinforced a previous conception, or opened their eyes to new possibilities.

Completion of the new Bärenherz 'Snooze Room'

After a donation of 5.000 € from VITRONIC last Christmas the Bärenherz (Bear heart) Foundation have completed the renovation of their Snooze Room. The newly redesigned room can be found at the Children's Hospice in Wiesbaden and, using gentle light and calming sounds, provides sick children and their

families with a place to relax and recuperate: a place of refuge away from their exhausting everyday lives. The Bärenherz Foundation was founded in 2002 with the goal of promoting and supporting projects for terminally ill and disabled children and their families. The hospice can care for up to 12 children.



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Revised VIPAC brochure



system VIPAC is revised. Additional inlays offer detailed overview, for example, of our new high-performance line-scan camera VICAM^{ssl2}, the volume-measurement system VOLUME^c and the image archiving tool VIPAC-*archive+*.

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The brochure about the camera-based identification

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Impressum

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