VIPAC

VITRONIC
machine vision people

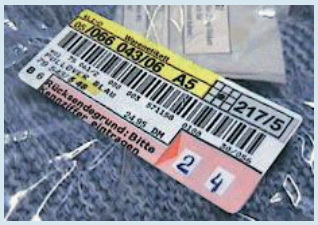
Return Merchandise Processing for Warehouses

Barcode- and OCR-Reading of returned merchandise

Requirements

Differently packed returned merchandise is automatically read in the unload area of the warehouse. A 22-digit barcode as well as a hand-written 2-digit code representing the return reason is read to identify and to sort the parcel.

Returned merchandise scan



Handwritten return reason

Advantages

Vitronic's VIPAC system provides automated identification and processing of parcels with significantly increased throughput using the same manpower as a manual system.

Implementation

The returned merchandise is coneyed through the camera tunnel. The camera's focus is automatically adjusted to different parcels' height.

VIPAC establishes the position and orientation of the return label, reads the barcode and the handwritten two-digit return reason code. Barcode read rates are >99%, OCR read rates >85%. The read results are sent to the upper level control for further processing.

Technical Data

Cameras:	1 High Resolution Auto-Focus Line Scan Camera	Resolution:	0.17 mm / 210 dpi Depth of Field: 350 mm
Illumination:	2 High Pressure Sodium Lights	Image processing:	Cycle time: < 0.5 sec. upon completing of image acquisition
Speed/Throughput:	Up to 350 ft/min (1.7 m/s), 9000 Pieces per Hour	System Height:	Installed at 25.5" above the belt (650 mm)
Parcel Height Variations:	0.4 " to 1.37" (10 mm to 350 mm)	Hardware/Interfaces:	Ethernet-LAN to the Upper Level Control I/O-Interlocks to the Low Level Control

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