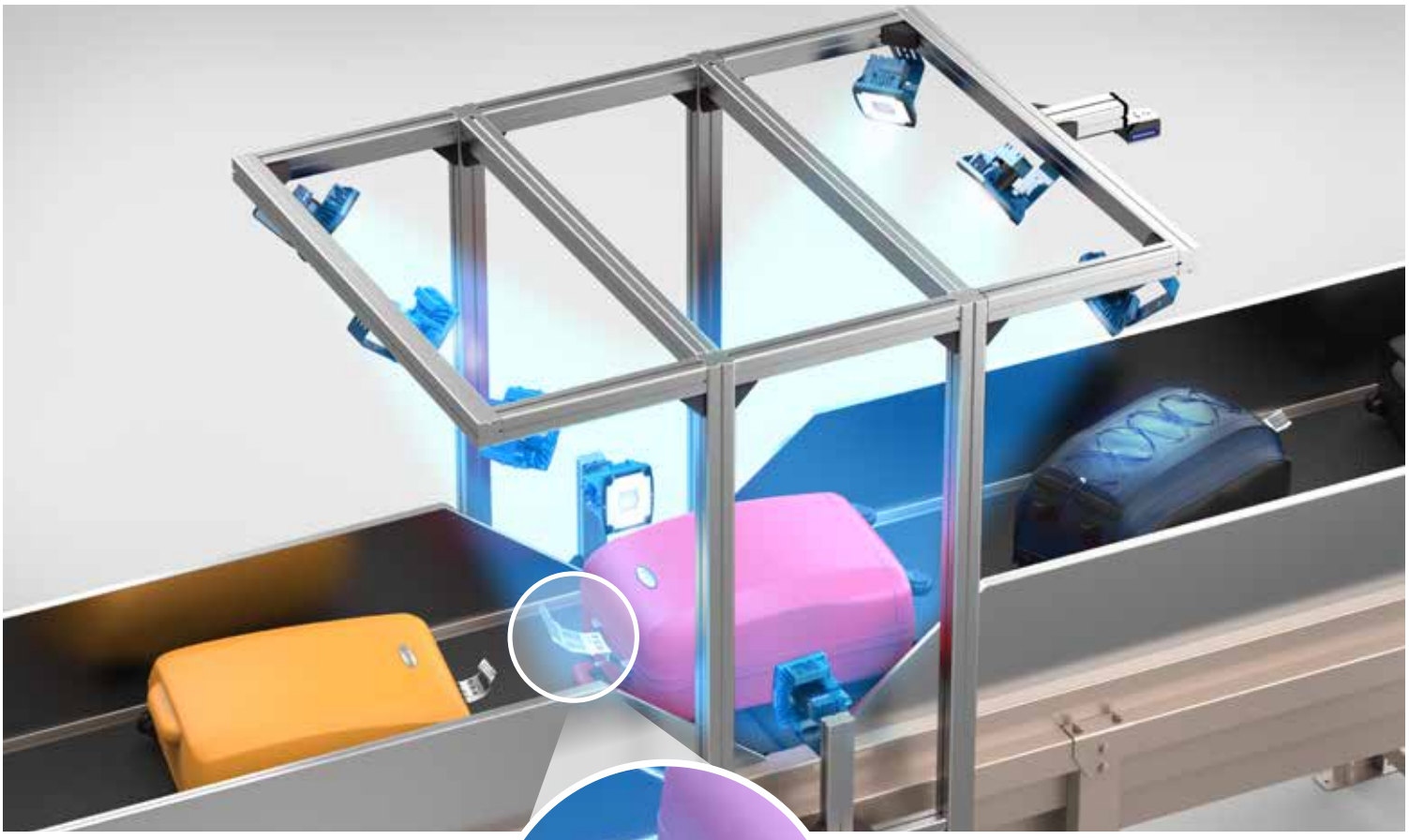
ATR 2.0
Baggage Sorting Imager Solution

DATALOGIC



PROBLEM: BHS EFFICIENCY

Because barcoded tags are so easily damaged during handling, the tags readability could be reduced before the luggage arrives at a destination.
Each time a bag is handled, the bag tag gets more damaged and stretched. This could result in a no read, causing the bag to be diverted to a manual check, which reduces the sorting efficiency.

DATALOGIC SOLUTION: ATR 2.0

The adoption of 2D imager technology for **ATR (Automatic Tag Reading)** applications will improve the read rate.
Detected images are suitable for Video Coding System (VCS) or Optical Character Recognition (OCR). Video Coding allows bag information to be encoded while the luggage remains in motion within the main Baggage Handling System. OCR could increase the read rate of a standard ATR with complementary technology.

Superior Read Rate On:
- Codes damaged by several belt passage
- Low contrast codes
- Codes that are stretched with smaller bar height

Image Saving and Transfer Capability:
- No read detection and analysis
- Image perfecty suitable for OCR and Videocoding applications

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READING STATION DESCRIPTION

The imager reading station **ATR2.0** is composed of 8 Matrix 450 imagers for top, lateral sides, front and back sides and 1 AV7000 linear camera for bottom side.
Websentinel™ software, supervision software, completes the system providing full image management and system diagnostics.
ATR2.0 doesn't require any external sensor for focusing since all the devices work at fixed focus and in real time. All the products have led illuminators built-in and they are connected in network eliminating the need for an external controller.
ATR2.0 runs in Packtrack mode in order to reduce as much as possible the minimum gap between two consecutive bags (360mm) and to get the right barcode/baggage assignment, sending the results in the right sequence.
ATR2.0 is able to save high quality images and have the capability to transfer them via high speed 10 Gigabit Ethernet to external supports (archive, videocoding, OCR)

MATRIX 450™ - IMAGE-BASED ID READER

MATRIX 450 is the most powerful camera-based reader ever and the first-in-his-class: 5.0 megapixels CCD sensor, 1.1 GHz core, 512 megabyte of working memory, integrated Gigabit Ethernet, 96 LEDs illuminator; flashing and continuous high-power lighting, outstanding decoding libraries, real-time image streaming and saving. The ID-NET™ readers clustering permits to effectively extend the reading area for single-side and multi-side applications. Captured image are stored on-board and optionally transferred to external supports through the integrated Gigabit ethernet connectivity. No moving parts, rugged metal construction, iP65 enclosure rate and operative temperature up to 50°C guarantee a long life cycle even in harsh industrial environments.

AV7000™ - IMAGE-BASED ID READER

The AV7000 is the industrial high-end camera system designed to drastically improve the productivity of T&L applications AV7000 embeds the latest and most powerful camera technology of the market into a modular, easy and reliable product. AV7000 delivers top reading performance with large Field of View (up to 1400mm) and high speed conveyor (up to 4,8m/s), simple integration, easy installation and top industrial reliability for a very low customer total cost of ownership.

WEBSENTINEL™ - SOFTWARE

Datalogic WebSentinel is the supervisory software solution for monitoring operational activities of reading devices. This platform collects and archives the most crucial information related to functional status, including diagnostics and performance, and integrates a user web-based interface for remote data representation and control. Thanks to the top level of data integrity and the intrinsic vividness, captured images represent an excellent forensic tool. The analysis of the captures related to unsuccessful reading attempts allow a quick and precise problem diagnosis and top reading performance.

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