

EPG AURA™

FORKLIFT 03 - ANALYZING

PALLET - INVENTORY ID

PALLET - INVENTORY ID

FORKLIFT 03 - ANALYZING

PATH OPTIMIZATION

PALLET - INVENTORY ID

PATH OPTIMIZATION

Observer

POWERED BY



nvidia®

Revolutionizing Beverage Logistics:

AI-Based Video Intelligence for Block Storage

From warehouse monitoring to instant action: the EPG AURA Observer delivers “out-of-the-box” AI for logistics operations. It is a ready-to-use solution for Intelligent Video Analytics (IVA) that provides immediate operational transparency, monitoring, and optimization. By combining state-of-the-art AI with proven logistics use cases, video footage is transformed directly into logistics intelligence.



The Challenge in the Beverage Industry

In beverage logistics, handling 4- or 6-pallet forks is standard in order to achieve high throughput. However, this leads to technological limitations with conventional systems:

- **Barcode blind flight:**
Since a forklift picks up pallets two rows deep, the pallets in the second row are physically out of reach for barcode scanners.
- **Infrastructure load:**
Conventional tracking systems such as indoor GPS or RFID floor anchors generate high costs, require structural interventions in the floor, and are maintenance-intensive.
- **Process uncertainty:**
Without visual control, it often remains unclear whether pallets have actually been stored or retrieved in the correct aisle of the block warehouse.

The Solution: Intelligent Video Recognition (IVA) Instead of Sensors

The EPG AURA Observer makes complex floor infrastructures unnecessary and delivers valuable insights from the moment it is installed.

- **Tracking without barcodes:** The system recognizes pallet movements purely visually via live video streams. Since the AI tracks the “pallet” object in space, the flow of goods remains fully transparent even when two rows are on the forks.
- **Natural interaction:** Users simply describe in natural language what they want to observe or analyze in order to immediately create their own use cases for the block warehouse.
- **Instant value:** No project setup, model training, or integration is required.

Warehouse Use Cases for Beverage Logistics

- **Zone monitoring:**
Continuous monitoring of pallet dwell times in staging and consolidation zones.
- **Block storage control:**
Real-time visibility of movements and process flows enables monitoring of the correct sequence of storage and retrieval.
- **Safety:**
Detection of safety violations (e.g., missing PPE such as helmets) and early accident detection to improve occupational safety.
- **Damage documentation:**
Automatic detection of collisions or fallen goods, linked to the exact storage location for rapid response.
- **Bottleneck detection:**
Identification of bottlenecks and capacity constraints through movement analyses and real-time heatmaps.



Security, Data Protection, and Control

- **Privacy by design:**
Personal data is automatically anonymized or pixelated.
- **Notifications:**
Events can trigger alerts directly, for example via Microsoft Teams.
- **Data sovereignty:**
Video streams are processed locally on the box; no footage leaves the company.

About EPG (Ehrhardt Partner Group)

EPG is a globally leading provider of unified supply chain technologies and has been supporting global brands with smart logistics for over 35 years. More than 1,600 organizations worldwide rely on the EPG ONE™ Suite to optimize complex processes from manual to fully automated warehouses.

EPG AT A GLANCE: POWERING LOGISTICS EXCELLENCE

Ehrhardt Partner Group (EPG) is a global leader of unified supply chain execution technology, supporting global brands for over 35 years with smarter connected logistics. Over 1,600 organizations around the world put their trust in EPG and its suite of solutions to optimize complex logistics processes from manual to fully automated warehouse environments. EPG ONE™ unified supply chain software centralizes WMS, WCS, WFM, TMS, voice solutions,

multi-carrier global shipping execution, intelligent route optimization, dock management, contract and billing management, and supply chain control tower, enabling integrated supply chain and logistics management from end-to-end. EPG empowers customers with value-added support—delivering expert logistics consulting, flexible cloud solutions, reliable managed services, and practical, results-driven training through its own logistics academy.



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EPG SOLUTIONS**

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EXECUTION SUITE

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DEEP LOGISTICS
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INDUSTRY EXPERTISE**