

FULL INVENTORY

zetes

Full Pallet Inventory (FPI)

High Speed & High Precision
Pallet Inventory Counting

speed

accuracy

scalability

Gain Control, Accuracy and Efficiency

The business benefits of Zetes' full pallet inventory solution are rapidly realisable for busy, fast moving warehouse operations - giving a fast ROI, simpler regulatory conformance and real-time access to data & inventory intelligence.

Improved data integrity immediately improves service critical KPIs and SLAs whilst also easing the burden of undertaking internal and external audits. This brings wide reaching benefits to supply chain operations and financial controllers, empowered with auditable, time-stamped images which can be digitally archived in the cloud or on-premise.

Inventory Accuracy Challenge

- ▶ Warehousing operations can account for more than 30% of overall logistics costs and potentially lock up huge volumes and values of inventory – driven by the increasing shift to e-commerce / direct delivery and growing customer demands for short delivery times
- ▶ For many, the warehouse is the supply chain 'engine room' and smooth, efficient operation can be easily disrupted by shortages of skilled labour and downtime that results in lost revenue, inaccurate inventory counts, missed KPIs and even danger to warehouse operatives
- ▶ In addition, factors such as inventory shrinkage and spoilage, theft or vandalism can damage the performance and reputation if left unmanaged
- ▶ The capability to accurately and efficiently locate, identify, count and where necessary, protect valuable inventory has never been more important. Today, this needs to be done quickly, accurately and regularly
- ▶ For some operations with high inventory turnover this may mean a much higher frequency of full cycle counting, often resulting in disruption and a high labour overhead



How it Works



- ▶ The FPI solution comprises a fork-lift mounted Zetes ImagelD station to capture pallet and location barcode data in the warehouse or DC



- ▶ Its versatility means that the ID station can be anchored to forklift trucks with front or side access eg. Reach trucks, VNA trucks



- ▶ It's compatible with different pallet location formats: standard full pallet, half pallet, double pallet and stacked pallets



- ▶ Pallet and location tags are decoded in motion at speeds up to 10 km/h with a single operator and forklift



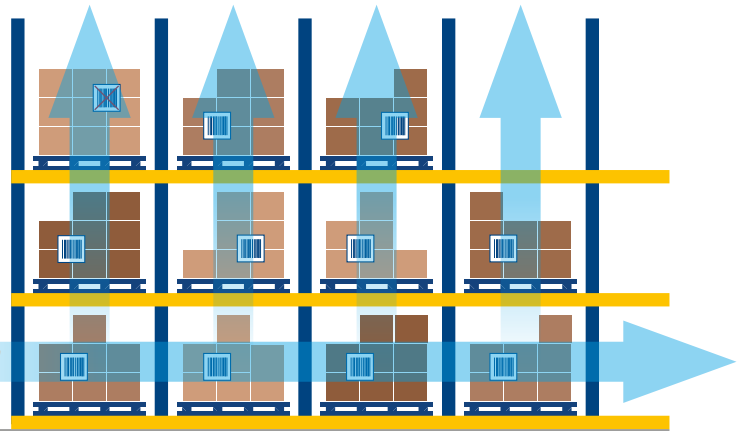
- ▶ A digital planogram is created, and data is exchanged via ZetesMedea warehouse execution software with the WMS/ERP



- ▶ Operators receive a real-time progress status of locations and pallets read

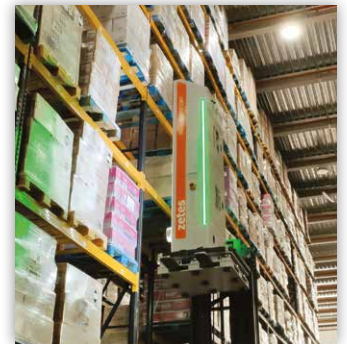


Fork-lift mounted Zetes ImagelD station to capture pallet and location barcode data in the warehouse or DC



Features

- ▶ ImagelD mobile station with cameras housed in a robust, lightweight casing
- ▶ Electromagnetic anchoring of the reading station to the forklift
- ▶ Easy to follow calibration with variable aisle viewing distance
- ▶ Cushioning to minimise vibration
- ▶ Anti-collision system to detect obstacles, alerting the operator via both sound and light signal, configurable to specific requirements
- ▶ ZetesMedea PC controller and rugged ID station tablet for active monitoring
- ▶ LED lighting system
- ▶ Autonomous 12V power supply
- ▶ Seamless integration with WMS/ERP systems



- ▶ The ability to carry out inventory counting on the move, minimising scans per warehouse aisle, translates into an optimisation of time and resources and an improvement in warehouse productivity. Using ImagelD gives us much higher data quality and reliability.

ID Logistics, Spain



Warehouse Operational Benefits

- ▶ Faster, higher frequency and auditable cycle counting
- ▶ Reduced inventory management costs
- ▶ Real-time inventory data and high accuracy rates > 99.8%
- ▶ Minimised inventory shrinkage, stockouts, aisle closures & prolonged shutdowns
- ▶ Improved on-time fulfilment KPI/SLA metrics
- ▶ Enhanced revenues due to fewer stockouts and lower inventory write-offs
- ▶ Improved warehouse worker availability
- ▶ Reduced health & safety burden during audit process
- ▶ Leading towards best-in-class warehouse inventory management

Technology Solution Comparison

(Based on 35,000 Bin Location Count)

Manual Counting	Advanced Drone	Zetes Pallet ID
 x10	 x5	 x1
 x50	 x10*	 x1
 500hr	 200hr	 20hr 
Requires lots of manpower and closure of aisle while counting.	Requires flight path creation, pilot and closure of aisle while counting.	Easy to implement, no operational interruptions. Superior data capture and read capabilities.

*Based on 5 Drone Pilots, 5 Counters

Let's get in touch

There is always a Zetes office close to you. Check out our international network at www.zetes.com



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