AB&R

identify. track. manage.

VIZBEE
RFID SOLUTIONS
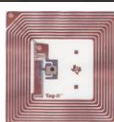
Tracking and localizing assets with Passive RFID

- Improve productivity

- Optimize storage zone usage

- Reduce storage and retrieval time

- Boost financial performance

- Achieve 100% location accuracy

- Enjoy wireless operation and no infrastructure

- Benefit from maintenance-free long-term use

Managing the exact locations of assets in warehouses and lots with thousands of assets is an ongoing concern for manufacturers and other facilities such as ports etc. Searching for specific items in large lots or warehouses often takes 20 to 30 minutes per asset. As a result of the lengthy picking duration, more personnel is needed in order to meet strict shipping schedules, i.e. incurring higher operating costs.

Existing localization systems require heavy infrastructure and are not cost-effective since their localization is only approximative.

Vizbee introduces a new approach with its patent-pending V-LOC system, that combines the Inventive™ server with intelligent handheld RFID reader that offers 100% cell accurate localization at an affordable price, achieving a fast ROI. The Vizbee V-LOC turns handheld passive RFID readers into intelligent programmable devices that deliver "pseudo online" functions and features.
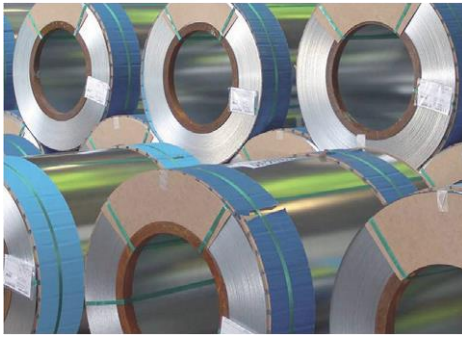
Every asset has a passive RFID identification tag ("AID"). A rugged passive identification tag is mounted next to each location ("LID")

Employees use handheld RFID readers. Upon depositing an asset on a location they simply scan the AID followed by the LID. This automatically creates a link between the asset ID (AID) and its location (LID). This link is stored on the handheld reader and subsequently uploaded to the V-LOC server. The exact location of every asset is now just a click away. Synchronization between the handheld reader and the V-LOC server can be done via GPRS, Wi-Fi or Bluetooth. Pilot tests conducted in large facilities showed that using V-LOC, the number of employees was reduced by 50% while maintaining the same service level.

Vizbee's new patent pending approach, combining the powerful intuitive parameter-driven V-LOC with the technical capabilities of advanced handheld readers, opens an entire new era in industrial storage management for online and offline operations.
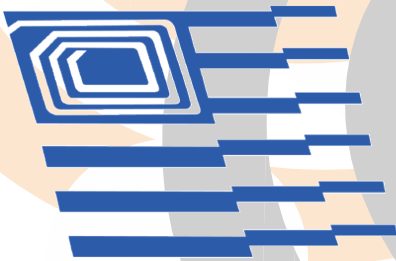
Intelligent functionality on handheld readers

Specific Vizbee software is installed in the handheld readers. Site specific information is downloaded into the handheld readers by the V-LOC server. A unique set of interfaces designed for handheld devices ensures intuitive and user-friendly operations. All data that is stored in handheld readers is uploaded and synchronized with the V-LOC server via GPRS, or by WIFI, Bluetooth or USB.

Handheld Functionality: Overview

Associate an Asset with a location

Using the Deposit function, scan the asset tag (AID) followed by the location tag (LID). When synchronized via GPRS, WiFi or Bluetooth this information is uploaded to the V-LOC server.

Vacating a location

Using the Vacate function on the handheld reader, scan the location tag (LID). When access control system RFID readers are installed at the entry and exit points, reading the asset ID at the exit automatically indicates that the place of this asset is now vacant.

Change asset location

Employees simply move the asset and create new association between the asset AID and the new LID. The previous LID is automatically cancelled and shown as vacant.

Asset search

Use the Search function on the handheld reader to locate instantly any asset. Upon scanning a location tag (LID), the list of all the items that are expected to be in this location is automatically displayed on the reader's display. Pursuant to the initial scan, all items found turn to green while the missing items remain grey in order to assist in pursuing the search and validating that these items are indeed missing.

VLOC PLUS

Advanced version of V-LOC include the possibility of defining that certain assets must be present in a specific location. Upon scanning a location tag and the assets in this location and updating the VLOC server, an alarm is automatically raised if assets are missing.

Storage zone access control

With barriers installed at storage zone entrances and exits, the system can control entry and exit of assets. V-LOC will not allow entry of assets that are assigned to other storage location zones. Likewise it will prevent thefts by not allowing the exit of assets if no instructions to retrieve assets are logged or if no authorized employee tag is simultaneously identified.

Statistics

V-LOC generates ongoing statistics, such as average use of storage place, average time for storage or retrieving, per storage zone, per employee, etc. Significant deviations from standard performance can be automatically noted and reported. These ongoing statistics contribute to improve operational efficiency and to reduce costs.

VLOC is an integral part of the Vizbee platform that includes:

- Logistics
- Retail
- Inventory Management
- Warehouse Management
- Maintenance Management
- Task Management
- Library and Document Tracking

**AB&R is a certified Vizbee Partner.
For more information contact an AB&R Specialist.
Call 800-281-3056 or visit www.abr.com**

About AB&R

Since 1980, AB&R (American Barcode and RFID) has been a nationally-recognized integrator of proven solutions that drive efficiency and productivity in the supply chain. Those solutions include asset tracking, inventory management, work force mobilization, wireless networking, and the managed services to support them all.