



**Voice-Insight** provides solutions offering an unparalleled ease of integration and productivity increase to the mobile worker using voice interaction with applications and sensors (GPS, barcode, RFID ...), and a paradigm shift in workflow simplicity equally at ease in warehouse logistics, GIS, maintenance, quality control and vehicle navigation.

## VQL for Logistics on the GO™

**Voice-Insight's VQL™**, Voice Query Language allows any user to query and edit any existing database application content in natural verbal language via a mobile device.

**"VQL for Logistics on the GO™"** is a suite of software modules and tools dedicated to distribution, retail, and logistics applications like Voice Enabled Picking, Receiving Goods, Inspection & Quality Control, Inventory, and Tracking.



It is multimodal, working with data acquisition technologies such as GPS, RFID, and barcode readers. The VQL Client software runs on standard mobile hardware and operating systems. Voice-Insight also provides its own hardware option that is cost effective yet fast and accurate.

Voice enabled work routines are especially advantageous in extreme environments like refrigerated meat grading and packing or noisy, outdoor equipment inspections. Together with Voice-Insight's own wireless

BlueVQL-Headsets™ and BlueVQL-SmartTalk™ voice terminals, VQL is a complete and robust solution that effectively addresses almost any logistics function.

For warehouse functions, **VQL for Logistics on the GO™** encompasses 4 modules.

- **Voice-Picking - real time order preparation management**
  - To reach maximum productivity during goods picking and order preparation
  - To increase accuracy in the handling of goods and orders
  - Easy cycle counting on the go to eliminate separate inventory checks
- **Voice-Reception - real time receiving goods management**
  - To reach maximum efficiency when receiving goods
  - To immediately initiate the information storage, including using RFID tags
- **Voice-Grading - to achieve real time grading and classification of goods**
- **Voice-Inventory - to achieve real time inventory accuracy**

In addition **Voice-Insight** provides the **VQL™ Global Manager** installed on a central server (*one or many, for redundancy reasons*) to link existing Warehouse Management Systems to any VQL voice client user. It manages the wireless connexion, updates and configuration of clients.

**Specifications:**

- o No Voice-Training.
- o Noise and accent robust
- o Hardware independent; BlueVQL-SmartTalk™ compliant
- o High quality Speech Synthesis for better communication
- o Dialogs created automatically from the inputs provide either by the WMS system or any structured repository.
- o Dialogs encompasses pure voice synthesis and recognition sections with any sensor information from barcode readers, RFID, GPS ...
- o Open System: the dialogs can be customized by the customer organization through a standard database approach. Alternatively an XML interface is available.
- o Rules to be applied automatically to certain parts of the dialog upon reading WMS instructions can be easily stored and configured in this database.
- o Works totally offline (list by list) if needed and equally line by line or in any combinations of those two modes. This means full WiFi coverage is not required.
- o Operating Systems: WinXP; subset on WinCE available; distributed version compatible with Wyse architecture available ...
- o Minimum CPU typically Celeron 400 MHz, Geode 400Mhz
- o Many Languages supported: English, French, Dutch, Mexican and Castilian Spanish, German, Mandarin, Japanese ...

**Example of human-machine dialogue for Picking**

- Please, give your badge number?
  - VI-007
  - Are you James Martin?
  - Yes
  - Welcome James Martin
  - What do you want to do?
  - What can I do?
  - 4 activities are available: Picking, Reception, Grading and Inventory
  - Picking
  - Which type of preparation? For Retailers, Schools, Municipalities or Prisons?
  - For Retailers
  - Take a roll or trolley and give its identification number
  - Roll number 45 687
  - Go to line-23, shelf-45 rack-D and give the control code
  - 78
- 78 is not the right control code. Try again ...
- 79
  - Take 4 BlueVQL™-Headsets
  - Taken
  - Go to shelf-49 rack-C and give the control code
  - 54
  - Take 5 boxes of IBM ink cartridge number 17, 30 units
  - Part Picking
  - How many full boxes?
  - 4
  - How many units?
  - 24
  - You have taken 4 full boxes and 24 units?
  - All right!
  - Go to line-26 shelf-12 rack-A and give the control code
  - ...

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