Industrial Networks
YardMaster®Mobile™
MOBILE AEI TAG, RFID AND BARCODE READER SOLUTION

YardMaster®Mobile™ is a portable device used to easily and accurately monitor railcar location. The device provides real-time wireless data transmission directly to your yardmaster® database for reporting and analysis.

APPLICATIONS

YardMaster®Mobile™ Inventory

The **YardMaster®Mobile™ Inventory** provides easy-to-use screens that allow field personnel to accurately record railcar locations in the plant facility, saving significant time on yard inventory procedures. The INet YardMaster® Mobile Inventory system is UL approved. The system also:

- Quickly obtains track locations of railcars by scanning the AEI tag or by manual entry of the railcar number.
- Flags a railcar as loaded or empty.
- Sets or reports railcar status such as "LOAD AND HOLD", "NEED REPAIR", "HEEL", or "CLEANED".
- Retrieves or creates "hotlist" status for problem cars.
- Records comments regarding railcar status.
- Uses YardMaster® DualScan™ function to scan two adjacent tracts simultaneously, saving significant time on yard inventory procedures.

YardMaster®Mobile™ Inspect

The **YardMaster®Mobile™ Inspect** system provides robust functionality to perform inspections of loaded and empty rail equipment for safety and quality control. The system also:

- Automatically retrieves the proper inspection list based on car type, customer, load/empty designations.
- Presents inspection items for check or comment.
- Records select railcar profile items for safety and compliance.
- Records inspection by date/time and operator ID.
- Maintains a permanent record of the inspection by date/time and inspector ID.
- Is a UL approved inspection system.

YardMaster®Mobile™ Load and Offload

The **YardMaster®Mobile™ Load and Offload** system supports loading and unloading operations including reporting of railcar data and volume correction calculations. The system also:

- Records load/offloads by railcar ID, product ID and lot number.
- Calculates proper loading levels using volume correction.
- Verifies offload quantities using volume correction.
- Receives loading approval or prevention based on railcar maintenance issues.
- Scans and records cable seal numbers.
- Verifies the proper load to proper customer to proper railcar for quality control.
- Is a UL approved stationary reader system.

APPLICATION BENEFITS

- Automates all processes and eliminates human error.
- Optimizes space utilization and increases overall efficiency.
- Maximizes asset management.
- Captures exact date/time stamp of units entering/exiting your facility for tracking reporting and accurate calculation of charges.
- Reports real-time inventory levels including switch and storage locations.
- Increases personnel safety.
- Ensures compliance with critical government regulations.
- Installs quickly and inexpensively.
- Reduces billing mix-ups.
- Provides remote access to troubleshoot issues for reduced down time.
- Future tank car loading, weigh scale monitoring and test data capabilities.

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Industrial Networks offers 24/7 support, complete site commissioning and full training on our systems. Our frequent system checks automatically notify an Industrial Networks technician of problems for fast resolution. ***Established interface with YardMaster®, the leading yard management software system from Bourque Data Systems.***

HARDWARE FEATURES

- Mobile RFID (AEI) barcode reader combined with 700 series mobile computer.
- Combines power and speed on the Intel® XScale processor and Microsoft® Pocket PC operating systems.
- Unique "plug and play" connectivity installs easy and keeps maintenance costs low.
- Large, reflective TFT color display with crisp, vivid screen contrast both indoors and out.
- Configurable to multiple wireless communication options (802.11b, WAN and Bluetooth®) in the same device.
- Rechargeable lithium-ion battery pack for a full work shift.
- Durable to withstand the rigors of industrial environments and extreme weather conditions.
- Intrinsically Safe version. (Available on barcode version only.)
- UL Certification System.
- Customizable operating modes and software programmability allow for a wide range of applications and reporting formats.
- Remote access for maintenance, configuration and software upgrades.

At Industrial Networks we affordably integrate systems to meet today's challenges. Using our AEI and barcode readers to manage inventory, loadbay activity, inspections, seals and more within your facility will make your job easier, increase efficiency and save money. Our immediate event reporting allows fast resolution of problems. With our mobile readers you will reach higher customer service levels and, most importantly, ensure greater safety for your personnel. Industrial Networks' readers are affordable with quick ROI. **Call us today for rates.**

INDUSTRIAL NETWORKS

▶SYSTEM INTEGRATION FOR TODAY'S CHALLENGES.

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Handheld Reader System

INTEGRATION

The system is fully integrated with Bourque Data Systems' YardMaster© software.

FREQUENCY

902 to 928 MHz spread spectrum frequency-hopping for unlicensed operation in the United States.

READ/WRITE PERFORMANCE

Read/Write Ranges
Read at least 6 tags per second at a distance of 4 feet (1.2 m). Read 8 bytes of data from tag in less than 50 milliseconds (ms).

Write a single byte of data to a tag at an average of 75 ms at a distance of 3 feet (0.9 m).

SOFTWARE/FIRMWARE FEATURES

Protocols
Handheld reader software fully supports the ANSI INCITS 256 2001 for Application Peripheral Interface (API), parts 2, 3.1 and 4.2.

Communication Interface
Infrared data connection between the INP100 and INP100i handheld and 700 Series Mobile Computer.

Data Rate
33 to 40 kbps

Multitag Access (Filtering)
User-specified groups within a population of tags can be selected and read from and/or written to using multitag access commands.

HARDWARE FEATURES

Power Requirements
Removable lithium battery pack.

LEDs
LEDs located on the scan handle indicate the status of the following reader features: reader power, host communications, RF power, tag communications and battery power.

PHYSICAL CHARACTERISTICS

Weight
Scan handle with battery: 1.06 lbs (0.48 kg.)

Scan handle with 700 color mobile computer and battery: 2.29 lbs (1.04 kg.)

ENVIRONMENT

Operating Temperature
-4°F to 131°F (-20°C to 55°C)

Storage Temperature
-40°F to 158°F (-40°C to 70°C)

Humidity
0 to 95%, relative, non-condensing.

Shock
20 G, 1/2 sine pulse, 11 ms duration, during operation.

Vibration
1.0 G_{rms}, 10 to 500 Hz, 3 axes during operation.

Environmental
Scan handle is sealed against windblown rain and dust. International Electrotechnical Commission ((IEC) 529 rated at IP54.)

STANDARDS

Communications
The INP100 and INP100i conforms to the following standards:

Automotive Industry Action Group B-11
ANSI INCITS 256.2001-Parts 2, 3.1 and 4.2.
ANSI MH10.8.4
ISO/IEC CD18000 Part 4
ISO/IEC WD18000 Part 6
Federal Communications Commission (FCC) Part 15 /Industry Canada ICES-003 Class B digital emissions

Approvals
cULus listed accessory.

BATTERY PACK
1200 milliamp-hour, 90-135V AC, 50Hz/60Hz, lithium ion with integral charger and 4-hour charge time.

ACCESSORIES
Dual pack charger.

DOCUMENTATION
INP100 and INP100i Handheld Reader Quick Reference Guide.

For additional product information call 281.419.0796, email sales@inetlp.com or fax request to 281.419.0061.

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