

LynxScan

V1.0

User Guide



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Introduction

LynxScan is a mobile system that interfaces with the Uniwell Lynx system and increases the speed and accuracy of stock counting by scanning barcodes.

The system consists of a Honeywell 5100 Portable Data Collection Terminal (hereafter called the scanner) with integrated barcode reader and an application for MS Windows based PC's that handles the communications between the scanner and PC.



Honeywell 5100

Quick Start

To get up and running quickly, this is what you need to do:

Install the necessary Windows communication software from the CD (ActiveSync for Windows XP or Windows Mobile Device Center for Windows 7 or 8).

Install the LynxScan software on your PC.

Turn on your scanner and connect it to a USB port of your PC with the cable (or put it in the cradle which is connected to the PC).

On Windows XP, a window will pop up (which you can just close) and the Microsoft ActiveSync icon with two arrows in it will go green to indicate that the scanner is connected.



This icon must be green for the data to be successfully transferred.



If grey, the scanner is not connected.

Windows Vista and Windows 7 uses the Windows Mobile Device Center instead of ActiveSync and does not have this icon but will open the Windows Mobile Device Center main menu to indicate that it has connected successfully.

When this window appears, just close it or click on 'Connect without setting up your device'. There is no need to 'Set up your device'.



Files are transferred to and from the scanner by calling the LynxScanPC.exe program with the appropriate command line parameters.

By default, LynxScanPC.exe is installed in C:\Program Files\Barcode Logic\LynxScan

The available command line parameters are:

[SEND](#) {Path where item, barcode and location data is stored}

[RECEIVE_STOCKTAKE](#) {Path to save data}

[RECEIVE_PURCHASES](#) {Path to save data}

[RECEIVE_TRANSFERS](#) {Path to save data}

[RECEIVE_BARCODES](#) {Path to save data}

[SHOW](#) {Path to save data}

[SETCLOCK](#)

See [Using The Scanner](#) for information on using the scanner.

Using the PC Program

SEND

This function has one parameter which is the path where the barcode.txt, items.txt and lct.txt files are found e.g.:

LynxScanPC.exe SEND "C:\An Import Data Folder"

N.B. If the path has spaces in it, it must be enclosed in double quotes.

The import files are ASCII text files with left justified fixed length fields:

barcode.txt fields:

Barcode (14 digit numeric)
Item Code (20 character alphanumeric)

e.g.
9312345678907 1001

items.txt fields:

Item Code (20 character alphanumeric)
Description (40 character alphanumeric)
Type (1 character N=Non-stock, S=Stock, L=Linked)
Price (10 character, includes currency symbol)

e.g.

1001	HEAVY KEG -----	S\$235.00
1002	LITE KEG	S\$0.00
1003	HAHN LITE KEG	S\$0.00

lct.txt fields:

Location Code (3 digit numeric)
Location Description (40 character alphanumeric)

e.g.
1 Default Location -----
2 Location # 2

When called, if the scanner is connected, this function will reformat the files and transfer them to the scanner.

A windows will show the progress, and when complete, will show for 4 seconds before closing. The clock in the scanner will also be synchronised to the system clock of the PC.

RECEIVE_STOCKTAKE

This function has one parameter which is the path where the stktak.txt file will be saved e.g.:

```
LynxScanPC.exe RECEIVE_STOCKTAKE "C:\An Export Data Folder"
```

N.B. If the path has spaces in it, it must be enclosed in double quotes.

If stocktake data exists on the scanner, it will be transferred to the PC and written to a file called stktak.txt in the folder specified.

If the transfer is successful, a file called UPLOADOK.TXT will also be created in the folder. If the transfer is not successful, or there is no stocktake data on the scanner, a file called UPLOADFAILED.TXT will be created in the folder.

stktak.txt fields:

Location Code (3 digit numeric)
Item Code (20 character alphanumeric)
Quantity (10 digit numeric)

e.g.

1	1001	1.000
1	1002	2.000
1	1003	3.000

RECEIVE_PURCHASES

This function has one parameter which is the path where the stkpur.txt file will be saved e.g.:

```
LynxScanPC.exe RECEIVE_PURCHASES "C:\An Export Data Folder"
```

N.B. If the path has spaces in it, it must be enclosed in double quotes.

If purchase data exists on the scanner, it will be transferred to the PC and written to a file called stkpur.txt in the folder specified.

If the transfer is successful, a file called UPLOADOK.TXT will also be created in the folder. If the transfer is not successful, or there is no purchase data on the scanner, a file called UPLOADFAILED.TXT will be created in the folder.

stkpur.txt fields:

Item Code (20 character alphanumeric)
Quantity (10 digit numeric)

e.g.
1001 1.000
2201 1.000

RECEIVE_TRANSFERS

This function has one parameter which is the path where the stktrf.txt file will be saved e.g.:

```
LynxScanPC.exe RECEIVE_TRANSFERS "C:\An Export Data Folder"
```

N.B. If the path has spaces in it, it must be enclosed in double quotes.

If transfer data exists on the scanner, it will be transferred to the PC and written to a file called stktrf.txt in the folder specified.

If the transfer is successful, a file called UPLOADOK.TXT will also be created in the folder. If the transfer is not successful, or there is no transfer data on the scanner, a file called UPLOADFAILED.TXT will be created in the folder.

stktrf.txt fields:

From Location Code (3 digit numeric)
To Location Code (3 digit numeric)
Item Code (20 character alphanumeric)
Quantity (10 digit numeric)

e.g.

1	2	1001	1.000
1	2	1002	1.000
1	2	1003	1.000

RECEIVE_BARCODES

This function has one parameter which is the path where the bcodes.txt file will be saved e.g.:

```
LynxScanPC.exe RECEIVE_BARCODES "C:\An Export Data Folder"
```

N.B. If the path has spaces in it, it must be enclosed in double quotes.

If barcode data exists on the scanner, it will be transferred to the PC and written to a file called bcodes.txt in the folder specified.

If the transfer is successful, a file called UPLOADOK.TXT will also be created in the folder. If the transfer is not successful, or there is no barcode data on the scanner, a file called UPLOADFAILED.TXT will be created in the folder.

bcodes.txt fields:

Barcode (14 digit numeric)

Item Code (20 character alphanumeric)

e.g.

```
001253          1201
64509723       1203
8012345000012 2002
```

SHOW

This function has one parameter which is the path where the export data files will be saved e.g.:

```
LynxScanPC.exe SHOW "C:\An Export Data Folder"
```

N.B. If the path has spaces in it, it must be enclosed in double quotes.

This function will display the main windows of the LynxScan.exe program to allow access to some other functions.

File / Reimport

These functions should be used only in an emergency.

After data files have been uploaded from the scanner, they are deleted from the scanner but are saved to the PC.

The files are called function_yyyymmdd_hhmmss.TXT , where function is the name of the function, yyyymmdd is the data and hhmmss is the time they were originally uploaded from the scanner.

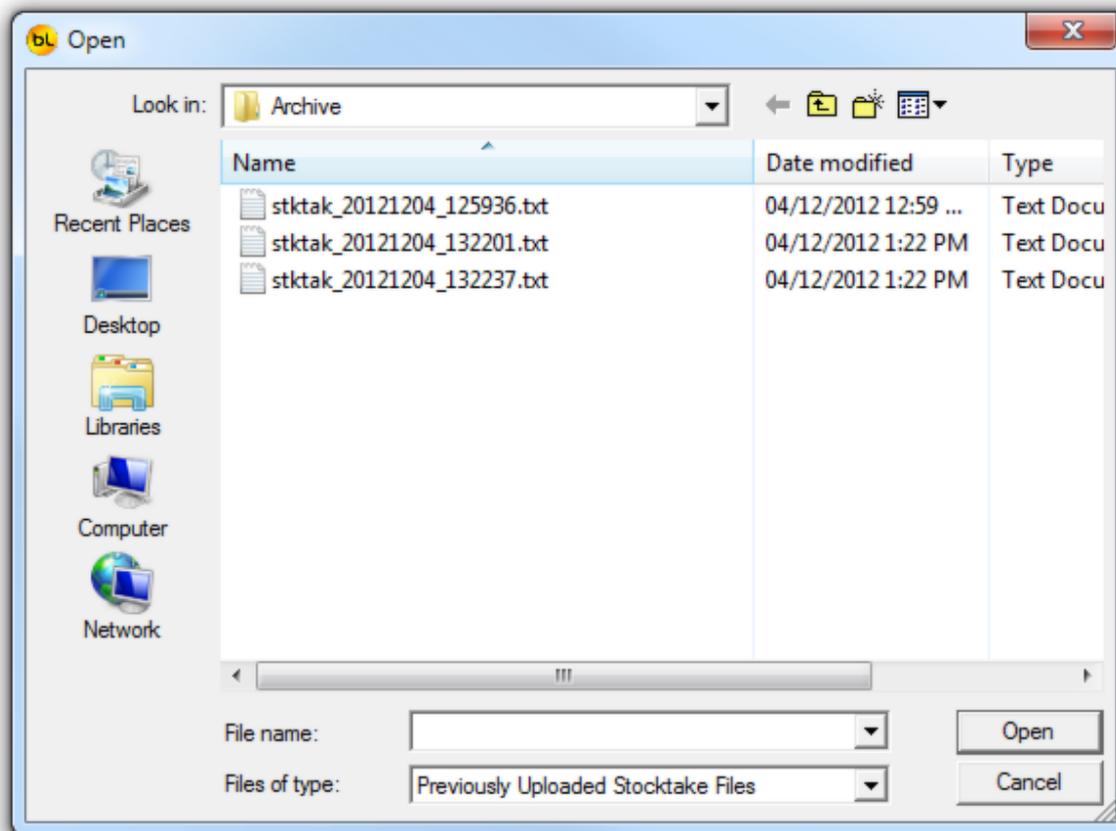
e.g. bcodes_2012_12_03_092735.txt

The files act as a backup so if all goes horribly wrong, it should not be necessary to recount any items.

The Reimport functions allow any previous list to be processed again which will create another txt file in the Export Files path.

This may be useful if a mistake was made after uploading, or a system error occurred.

A dialog will open allowing you to select from the files available (depending on which function was selected):



Select the file and it will be exported again, in this case to stktak.txt in the folder supplied in the command line parameter.

Note: These files are not in the same format as the .txt files created in the Export files path. They are in the format the data is stored in the scanner.

When this dialogue is open, you can right click on a file to open it in notepad or copy it. These files may be useful for debugging or analysing what was scanned when, as they also contains the date and time each item was scanned.

e.g. (stocktake file)

1	1001	1.00004/12/12 12:59:15
1	1002	2.00004/12/12 12:59:19
1	1003	3.00004/12/12 12:59:23

Tools / Download Program to Scanner

If a new version of the LynxScan software has been installed on the PC and the scanner program has changed, selecting this option will copy it to the scanner. The scanner will then need to be 'Cold-Booted' to install the new version.

To Cold Boot a Honeywell 5100, hold down the power button (bottom right), and use a pen to push in and release the reset button (between, and slightly above, the 1 and 2 keys). The screen will go blank. Release the power button and wait. The PDT eventually return to the main menu.

Tools / Set Scanner Clock

If the scanner is connected, this will set the clock in the scanner to the system clock of the

PC.

This is also done each time the SEND function is called.

SETCLOCK

This function has no parameters.

LynxScanPC.exe SETCOCK

If the scanner is connected, this will set the clock in the scanner to the system clock of the PC.

Using The Scanner

General Operation

1. Power

To use the PDT, it must be turned on, so let's start there:

After a short time, the PDT display backlight will turn off to save the display. To turn the backlight back on, press the SCAN key.

After a longer period of time, the PDT will turn itself off completely. To turn it back on, press the power button.

2. The Keypad

The Honeywell O5100 may have no touchscreen, depending on the model.

The program has been written to allow the operator to use the keyboard for all operations. This allows the scanner to be used with one hand and without the need for a stylus.

The program can be operated using only these keys:

Esc - to go back a step or return to the previous screen (and eventually back to the main menu).

Ent - to accept a number value that has been keyed in.

The alpha-numeric pad - for entering item codes and menu options

ALPHA - The ALPHA key changes the keypad from Numeric to Upper Case Alpha, to Lower Case Alpha, to 'mouse mode' (use 2,4,6 and 8 to move the cursor) and back to numeric. Most functions of the program will automatically default the keyboard back to Numeric mode.

If you need the orange characters or functions printed on the PDT next to the keys, press the orange key, followed by the key you want (don't hold the orange key while pressing the second key).

If you need the blue characters or functions printed on the scanner next to the keys, press the blue key, followed by the key you want (don't hold the blue key while pressing the second key).

Remember that the easiest way to enter data is to scan a barcode. If your barcode won't scan it may be damaged or badly printed.

To select a menu item, either use the Arrow Keys to scroll through the menus then press Enter when the required item is highlighted, or just press the number key corresponding to the require item.

Scanner Main Menu



To select an option from the main menu, either:

1. Use the Joystick to scroll through the options and press ENTER, or
2. Press the numeric key corresponding to the option you want (1, 2 or 3), or

Functions 1, 2, 3 and 5 will open a sub-menu with the function name at the top:

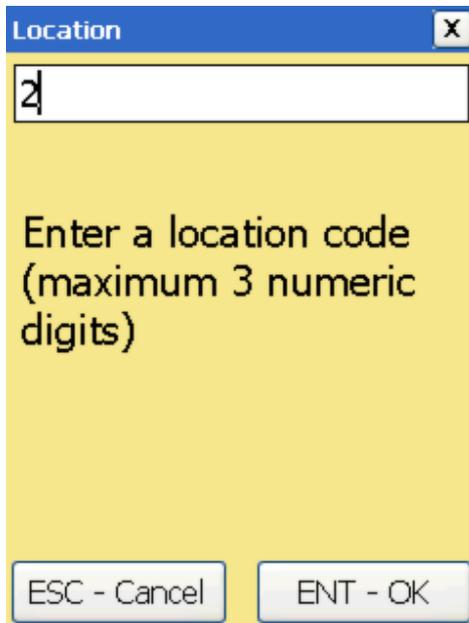


Press 4 or ESC to return to the main menu.

Stocktake

Enter Data

The stocktake function will first prompt you to enter a location code:



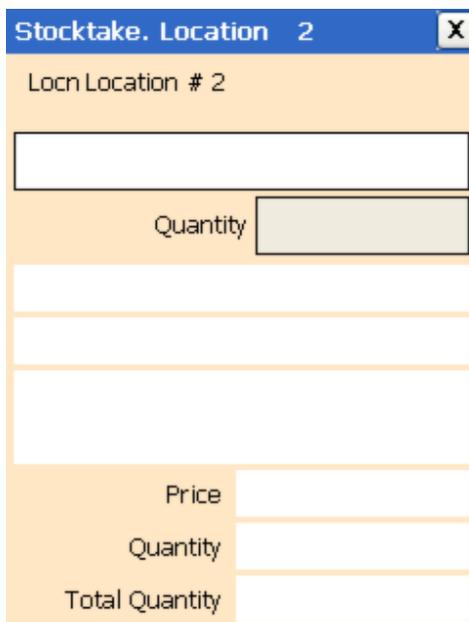
Location

Enter a location code
(maximum 3 numeric
digits)

ESC - Cancel ENT - OK

Type in the code and press ENT.

If the code is valid and on file it will prompt you to scan an item:



Stocktake. Location 2

Loch Location # 2

Quantity

Price

Quantity

Total Quantity

Scan or key the barcode. If not found in the barcode file, it will search the item file.

If found in one or the other and it is not a non-stock item, the item details will be displayed:

Stocktake. Location 2	
Loch Location # 2	
9312345678907	
Quantity	1
9312345678907	
1001	
HEAVY KEG	

Price	\$235.00
Quantity	
Total Quantity	

If the barcode was found in the barcode file, then both the barcode and item code will be displayed.

If found only in the item file, the item code only will be displayed.

You will be prompted to enter the quantity.

Type in the quantity and press ENTER. It is now ready to scan the next item.

Stocktake. Location 2	
Loch Location # 2	
Quantity	
9312345678907	
1001	
HEAVY KEG	

Price	\$235.00
Quantity	3.000
Total Quantity	58.000

The details of the item just scanned are left on the display for reference.

If the item had been scanned previously for the same location, the total quantity for the item is displayed at the bottom.

Press ESC when finished to return to the menu.

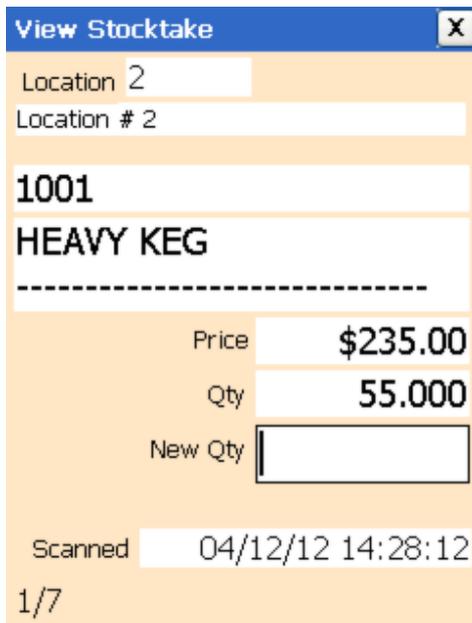
[View Data](#)

This function allows you to scroll through the items scanned. It will start by displaying the last item scanned. The number of the current record and the total number of records is displayed at bottom left.



The UP arrow will display the previous record.
 The DOWN arrow will display the next record.
 The LEFT arrow will display the first record.
 The RIGHT arrow will display the last record.

Press F2 if you want to change the quantity for the current record only. You will be prompted to enter a new quantity:



Type in the new quantity and press ENT or press ESC if you have changed your mind.

Press ESC when finished to return to the menu.

Delete Data

This will delete all the records for the current function, after you confirm twice that this is what you want to do.

Purchases

Enter Data

The purchases function will first prompt you to enter a barcode:

The screenshot shows a window titled "Purchases" with a close button (X). The window has a light blue background. At the top, there is a large empty text input field. Below it, there is a label "Quantity" followed by a small, empty text input field. Further down, there are three more empty text input fields. At the bottom of the window, there are three rows of labels and input fields: "Price" with an empty field, "Quantity" with an empty field, and "Total Quantity" with an empty field.

Scan or key the barcode. If not found in the barcode file, it will search the item file. If found in one or the other and it is not a linked item, the item details will be displayed:

The screenshot shows the "Purchases" window with the same layout as the previous one, but now populated with data. The top text input field contains the barcode "9312345678907". The "Quantity" input field contains the number "1". Below the input fields, the following item details are displayed: the barcode "9312345678907", the item code "1001", and the item name "HEAVY KEG". A dashed line separates the item name from the summary section. The summary section at the bottom shows "Price" as "\$235.00", "Quantity" as an empty field, and "Total Quantity" as an empty field.

If the barcode was found in the barcode file, then both the barcode and item code will be displayed.

If found only in the item file, the item code only will be displayed.

You will be prompted to enter the quantity.
 Type in the quantity and press ENTER. It is now ready to scan the next item.

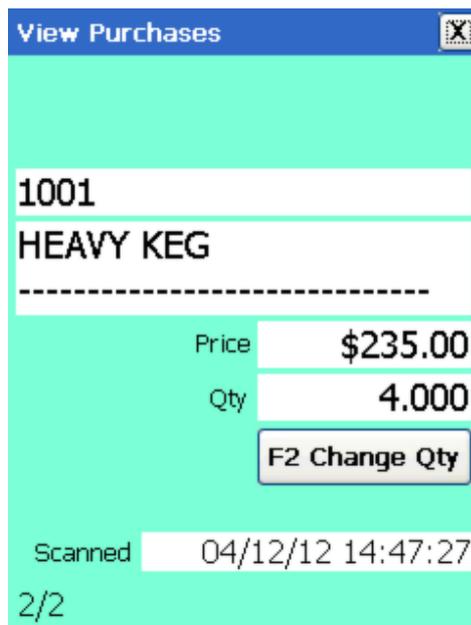


The details of the item just scanned are left on the display for reference.
 If the item had been scanned previously for the same location, the total quantity for the item is displayed at the bottom.

Press ESC when finished to return to the menu.

View Data

This function allows you to scroll through the items scanned.
 It will start by displaying the last item scanned.
 The number of the current record and the total number of records is displayed at bottom left.



The UP arrow will display the previous record.
The DOWN arrow will display the next record.
The LEFT arrow will display the first record.
The RIGHT arrow will display the last record.

Press F2 if you want to change the quantity for the current record only.
You will be prompted to enter a new quantity:

The screenshot shows a terminal window titled "View Purchases" with a close button (X). The background is light blue. The text is as follows:

```
1001
HEAVY KEG
-----
Price    $235.00
Qty      24.000
New Qty  [ ]
Scanned  04/12/12 14:47:20
1/2
```

Type in the new quantity and press ENT or press ESC if you have changed your mind.

Press ESC when finished to return to the menu.

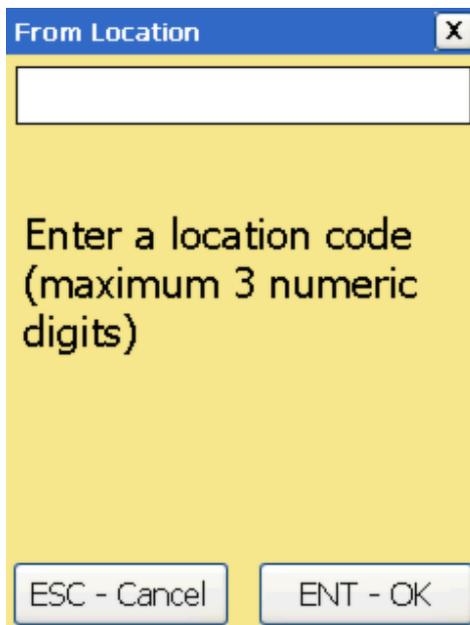
Delete Data

This will delete all the records for the current function, after you confirm twice that this is what you want to do.

Transfers

Enter Data

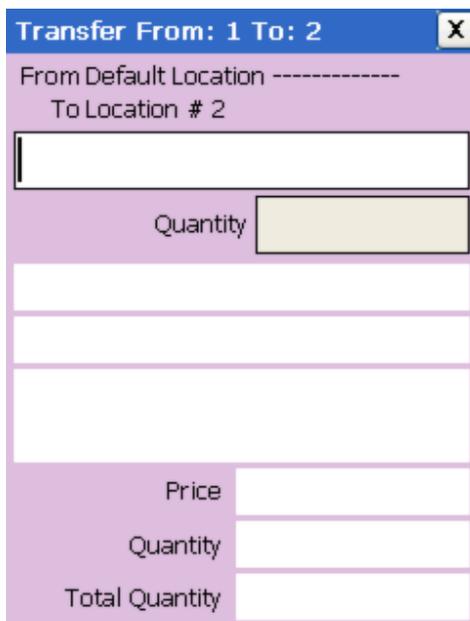
The stocktake function will first prompt you to enter a 'From' location code:



The screenshot shows a dialog box titled "From Location" with a close button (X) in the top right corner. Below the title bar is a text input field. The main area of the dialog is yellow and contains the text "Enter a location code (maximum 3 numeric digits)". At the bottom, there are two buttons: "ESC - Cancel" and "ENT - OK".

Type in the code and press ENT.

If the code is valid and on file it will prompt you to enter a 'To' location code.
If this is valid, on file, and different to the 'From' code, it will prompt you to scan an item:



The screenshot shows a dialog box titled "Transfer From: 1 To: 2" with a close button (X) in the top right corner. The dialog has a purple header and footer. The main area is white and contains the following fields:

- From Default Location -----
- To Location # 2
- A text input field for the item code.
- A "Quantity" label next to a numeric input field.
- Three empty text input fields.
- A "Price" label next to a numeric input field.
- A "Quantity" label next to a numeric input field.
- A "Total Quantity" label next to a numeric input field.

Scan or key the barcode. If not found in the barcode file, it will search the item file.
If found in one or the other and it is not a non-stock or linked item, the item details will be

displayed:

Transfer From: 1 To: 2	
From Default Location -----	
To Location # 2	
1004	
Quantity	1
1004	
COOPERS KEG	
Price	\$0.00
Quantity	
Total Quantity	

If the barcode was found in the barcode file, then both the barcode and item code will be displayed.

If found only in the item file, the item code only will be displayed.

You will be prompted to enter the quantity.

Type in the quantity and press ENTER. It is now ready to scan the next item.

Transfer From: 1 To: 2	
From Default Location -----	
To Location # 2	
Quantity	45.000
1004	
COOPERS KEG	
Price	\$0.00
Quantity	45.000

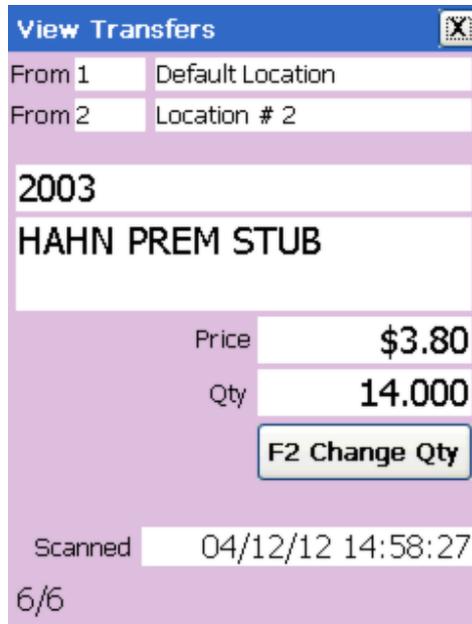
The details of the item just scanned are left on the display for reference.

If the item had been scanned previously for the same location, the total quantity for the item is displayed at the bottom.

Press ESC when finished to return to the menu.

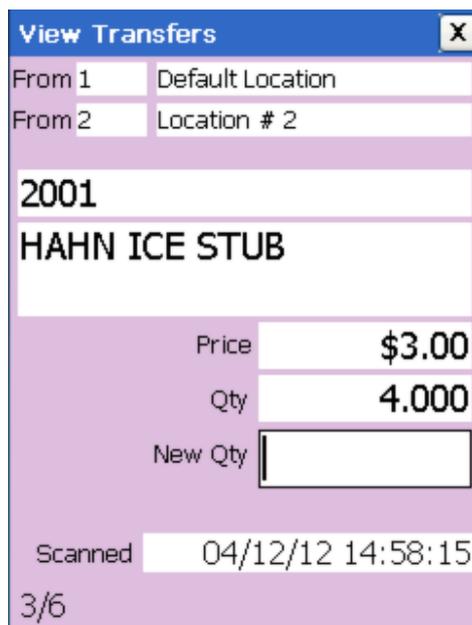
View Data

This function allows you to scroll through the items scanned. It will start by displaying the last item scanned. The number of the current record and the total number of records is displayed at bottom left.



The UP arrow will display the previous record.
 The DOWN arrow will display the next record.
 The LEFT arrow will display the first record.
 The RIGHT arrow will display the last record.

Press F2 if you want to change the quantity for the current record only. You will be prompted to enter a new quantity:



Type in the new quantity and press ENT or press ESC if you have changed your mind.

Press ESC when finished to return to the menu.

Delete Data

This will delete all the records for the current function, after you confirm twice that this is what you want to do.

Price Check

This function is just for displaying the item details, and no data is collected. You will be prompted to scan a barcode:



Scan or key the barcode. If not found in the barcode file, it will search the item file. If found in one or the other, the item details will be displayed:

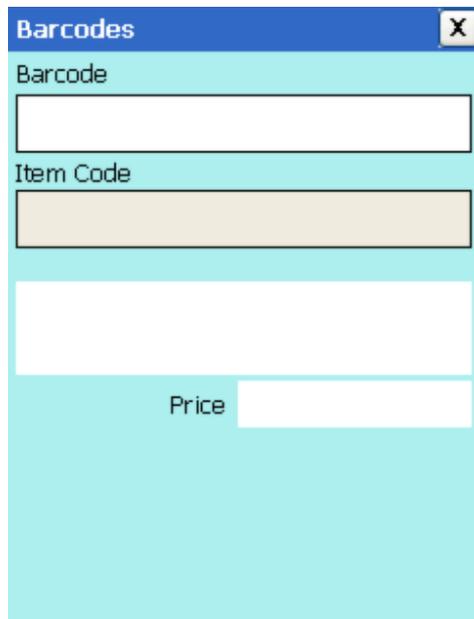


Press ESC when finished to return to the menu.

Barcodes

Enter Data

The barcodes function is used to link barcodes to items. It will first prompt you to enter a barcode:



A screenshot of a software dialog box titled "Barcodes" with a close button (X) in the top right corner. The dialog has a light blue background. It contains four input fields: a "Barcode" field (empty), an "Item Code" field (empty), a large empty text area, and a "Price" field (empty).

Scan or key the barcode. Any valid barcode (up to 13 digits numeric) is accepted. You will then be prompted to enter an item code:



A screenshot of the same "Barcodes" dialog box. The "Barcode" field now contains the numeric value "8012345000012". The "Item Code" field remains empty. The "Price" field is also empty.

If found in the item file, the item description will be displayed and you will be asked to confirm:



Press ENT to save the record to file, or press ESC to cancel and go back to the barcode prompt.

Press ESC when finished to return to the menu.

View Data

This function allows you to scroll through the items scanned.

It will start by displaying the last item scanned.

The number of the current record and the total number of records is displayed at bottom left.



The UP arrow will display the previous record.

The DOWN arrow will display the next record.

The LEFT arrow will display the first record.
The RIGHT arrow will display the last record.

Press ESC when finished to return to the menu.

Delete Data

This will delete all the records for the current function, after you confirm twice that this is what you want to do.

Troubleshooting

If the data fails to transfer successfully to the PC, please check the following:

1. That the scanner is turned on.
2. That the scanner is at the main or a sub menu.
3. That the scanner or cradle is physically connected to the PC with the USB cable.
4. That the scanner is connected correctly with Activesync (if using Windows '95, '98 or XP). The ActiveSync icon on the Windows taskbar should be green:



or that the scanner is connected correctly with Windows Mobile Device Center (is using Windows Vista, 7 or 8).

This window should open and display 'Connected' in the bottom left corner.



If the scanner fails to connect, disconnect the PDT from the PC and reconnect it.

If it fails again, try turning the scanner off and on again.

Perform a Warm Boot of the scanner (press the reset button between, and slightly above, the 1 and 2 keys).

As a last resort, perform a Cold Boot on the PDT: To Cold Boot a Honeywell 5100, hold down the power button (bottom right), and use a pen to push in and release the reset button (between, and slightly above, the 1 and 2 keys).

The screen will go blank.
Release the power button and wait. The PDT eventually return to the main menu.

If all else fails, contact technical support.

Support

Your first line of support will be the organisation you purchased this system from.

Should they be unable to help, please email any questions/suggestions to:

support@barcodelogic.com.au

or phone us on: 02 43 225 225 during business hours

or fax us on: 02 43 225 226

Contact Barcode Logic



If you have any problems or queries with this software or would like to request changes or additions, please contact us.

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