



Leitor Honeywell Eclipse MS 5145

Para realizar a leitura do código de barras com o Honeywell MS 5145 é necessário apenas um simples toque no botão Codegate, tecnologia patenteada pela Honeywell (Metrologic), que permite ao usuário mirar com precisão e facilidade no alvo desejado posicionando o feixe de laser sobre as linhas.

MetroSelect[®]

Single-Line Scanner

Configuration Guide

Disclaimer

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Introduction

Your new scanner has been factory configured with a set of default parameters. Since many host systems have unique formats and protocol requirements, Honeywell provides a wide range of configurable features that may be selected using this bar code based configuration tool. Once the configuration is completed, the scanner stores the settings in nonvolatile memory (NOVRAM). NOVRAM saves the settings when the power is off.

Note: Bar code descriptions marked with an asterisk (*) define a feature that is a factory default. Bar codes marked with a tilde (~) require the Multi-Code configuration method.

Bar Code Configuration Methods

The MetroSelect class of scanners can be bar code configured in two ways: the *Single-Code Method* and the *Multi-Code Method*.

Note: To properly configure an MS9540 scanner, all configuration codes must be scanned using the CodeGate® option.

Single-Code Method

Most features can be enabled or disabled using the Single-Code Method.

1. Power-up the scanner.
2. Scan the bar code for the desired feature.
3. The scanner will emit a multi-toned beep to indicate the configuration has been saved to NOVRAM.

Multi-Code Method

All features can be enabled or disabled using the Multi-Code Method. A feature marked with a tilde (~) requires the Multi-Code Method.

1. Power-up the scanner.
2. Scan the *enter/exit configuration mode* bar code (3 beeps).
3. Scan the bar code for the desired feature (1 beep). Multiple features can be enabled/disabled before scanning the enter/exit configuration mode bar code.
4. Scan the *enter/exit configuration mode* bar code (3 beeps) and save the new configuration. To abort a configuration change, power off the scanner before scanning the *enter/exit* code.

Enter/Exit Configuration Mode



Need To Start Over?

Scan the *Recall Defaults* bar code to erase all previous settings and return the scanner to its factory default communication protocol. Keyboard Wedge interface scanners will load keyboard wedge defaults. All other scanners load RS232 defaults.

Note: Honeywell manufactures several products for OEM applications. These OEM products are configured with custom OEM defaults, which may use a different set of defaults than the standard set of factory defaults. See page 23–1 for additional information on custom defaults and how they affect factory defaults.

Recall Defaults



Code Types and Decode Rules

Bar code descriptions marked with an asterisk (*) define a feature that is a factory default. Bar codes marked with a tilde (~) require the Multi-Code configuration method.

UPC/EAN



* Enable UPC/EAN



Disable UPC/EAN



* Enable UPC-A



Disable UPC-A



* Enable UPC-E



Disable UPC-E



* Enable EAN-13



Disable EAN-13



* Enable EAN-8



Disable EAN-8

Code 128



* Enable Code 128



Disable Code 128



Enable UCC/EAN-128 'JC1' Code Formatting –
For Coupon Code 128, see page 3–3.



* Disable UCC/EAN-128 'JC1' Code Formatting



Ignore <FNC4> Code 128 Characters



* Use <FNC4> to Determine Extended ASCII
Characters

Code 39



* Enable Code 39



Disable Code 39



Enable MOD 43 Check Digit on Code 39 – The
scanner only scans Code 39 bar codes that have
a valid Modulo 43 check digit.



* Disable MOD 43 Check Digit on Code 39



Enable Full ASCII Code 39



* Disable Full ASCII Code 39



Enable PARAF (Italian Pharmaceutical Codes) Support – Code 39 bar codes are converted to PARAF format.



* **Disable PARAF Support**



* **Allow PARAF Codes Only**



Allow Non-PARAF Codes



Enable TRI-OPTIC Code



* **Disable TRI-OPTIC Code**



* **Use Standard Code 39 Framing**



Try Code 39 Codes Without 5 Bar Multiples



Enable ITF/Code 39 Filters



* **Disable ITF/Code 39 Filters**



Enable Self-Service Library Code 39



* **Disable Self-Service Library Code 39**



Transmit MOD 43 Check Digit – with Self Service Library Code 39



* **Do Not Transmit MOD 43 Check Digit** – with Self Service Library Code 39



Enable Alternate Code 39 Reference Comparison Check – assists with elements that are below the 2 to 1 (wide to narrow) element width requirement.



* **Normal Code 39 Reference Comparison Check**

2 OF 5 CODES



* **Enable Interleaved 2 of 5 (ITF)**



Disable Interleaved 2 of 5 (ITF)



Enable MOD 10 Check on ITF – The scanner will only scan Interleaved 2 of 5 (ITF) bar codes that have a Modulo 10 check digit.



* **Disable MOD 10 Check on ITF**



Allow ITF Null Characters



* **Do Not Allow ITF Null Characters**



~ **ITF Symbol Length Lock 1** – To specify a first ITF symbol length lock, scan this bar code and the appropriate code byte sequence located on page 16–1.



~ **ITF Symbol Length Lock 2** – To specify a second ITF symbol length lock, scan this bar code and the appropriate code byte sequence located on page 16–1.



~ **ITF Minimum Symbol Length** – To specify a minimum number of ITF characters to be decoded, scan the appropriate code byte sequence located on page 16–1.



Alternative ITF first Bar Reference



*** Normal ITF first Bar Reference**



Enable Standard 2 of 5



*** Disable Standard 2 of 5**



~ Standard 2 of 5 Symbol Length – To specify the number of characters to be decoded, scan this bar code and the appropriate code byte sequence located on page 16–1.



Enable Matrix 2 of 5



*** Disable Matrix 2 of 5**



*** Enable Matrix 2 of 5 Check Digit Requirement**



Disable Matrix 2 of 5 Check Digit Requirement



Enable 15 Digit Airline 2 of 5



*** Disable 15 Digit Airline 2 of 5**



Enable 13 Digit Airline 2 of 5



*** Disable 13 Digit Airline 2 of 5**



Enable Hong Kong 2 of 5



*** Disable Hong Kong 2 of 5**



Enable Follett ITF



*** Disable Follett ITF**

Codabar



*** Enable Codabar**



Disable Codabar



Enable Dual Field Codabar



*** Disable Dual Field Codabar**

Code 93



*** Enable Code 93**



Disable Code 93

Code 11



Enable Code 11



* **Disable Code 11**



* **Check for 1 Code 11 Check Digit**



Check for 2 Code 11 Check Digits



* **Do Not Check for 2 Code 11 Check Digits**



Check for 2 Code 11 Check Digits if Code Length is Greater Than 10 Characters

Telepen



Enable Telepen



* **Disable Telepen**



Enable ALPHA Telepen



* **Disable ALPHA Telepen**

Plessey Codes



Enable MSI Plessey



* **Disable MSI Plessey**



* **No MSI Plessey Check Digit** – Plessey bar codes will not be tested for a check digit.



Enable MSI Plessey MOD 10/10 Check Digit –
Test MSI Plessey bar codes for a 2 digit
Modulo 10 check digit.



*** Enable MSI Plessey MOD 10 Check Digit –**
Test MSI Plessey bar codes for a 1 digit
Modulo 10 check digit.



Enable UK Plessey



*** Disable UK Plessey**



Enabled UK Plessey A to X Conversion



*** Disabled UK Plessey A to X Conversion**



*** Standard Plessey Stop Characters**



Accept Bad Plessey Stop Characters

Additional Decode Features



**Enable Double Border Required / Large
Intercharacter Space**



*** Disable Double Border Required / Large
Intercharacter Space**



Enable Small Border Required



*** Disable Small Border**



~ **Minimum Symbol Length** – Single-line default is 3. Combine this code with the proper code bytes (on page 16–1), to specify the minimum number of characters in all non-UPC/EAN bar codes.



~ **Symbol Length Lock** – Combine this code with the proper code bytes, to lock the bar code's length into place.



Enable Modulus 8 Filter on Bar & Space Counts



* **Disable Modulus 8 Filter on Bar & Space Counts**



Handle Code 39 Bad Border



* **Disable Code 39 Bad Border**

Configurable Code Lengths

There are seven bar code lock lengths available. Specific code types can be assigned to a lock length.

While in configuration mode:

1. Scan the code *length* lock #1 bar code (below).
2. Scan the three code bytes that represent the code length (on page 16–1).
3. Scan the matching code *type* lock #1 bar code (below).
4. Scan the three code bytes that represent the code type (on page 16–1).

This process can be repeated for lock lengths 2 through 7.



~ **Code Length Lock #1**



~ **Code Type Lock #1**



~ Code Length Lock #2



~ Code Type Lock #2



~ Code Length Lock #3



~ Code Type Lock #3



~ Code Length Lock #4



~ Code Type Lock #4



~ Code Length Lock #5



~ Code Type Lock #5



~ Code Length Lock #6



~ Code Type Lock #6



~ Code Length Lock #7.



~ Code Type Lock #7.



Enable Japanese Multi-Field



Disable Japanese Multi-Field

Supplements



Enable Two Digit Supplements



* **Disable Two Digit Supplements**



* **Enable Two Digit Redundancies** – The scanner will scan the bar code plus the 2 digit add on twice before accepting data.



Disable Two Digit Redundancies



Enable Five Digit Supplements



* **Disable Five Digit Supplements**



Enable Five Digit Redundancies – The scanner will scan the bar code plus the 5 digit add on twice before accepting data.



* **Disable Five Digit Redundancies**



Supplements are Required – All UPC/EAN labels that are scanned must have a supplement.



* **Supplements are Not Required**



Enable Remote Supplement Required – MS9500 & MS6200 not supported.



* **Disable Remote Supplement Required** – MS9500 & MS6200 not supported.



Enable Bookland (979) Supplement Required



* **Disable Bookland (979) Supplement Required**



Enable Bookland (978) Supplement Required



*** Disable Bookland (978) Supplement Required**



Enable 977 (2 Digit) Supplement Required –
The scanner will require a 2 digit supplement to be scanned when an EAN-13 code begins with 977.



*** Disable 977 (2 Digit) Supplement Required**



Enable 378/379 French Supplement Required



*** Disable 378/379 French Supplement Required**



Enable 414/419 German Bookland Supplement Required



*** Disable 414/419 German Bookland Supplement Required**



Enable 434/439 German Supplement Required



*** Disable 434/439 German Supplement Required**



Enable # System 2 Requires Supplements



*** Disable # System 2 Requires Supplements**



Enable UPC # System 5 Requires Supplements



*** Disable UPC # System 5 Requires Supplements**



- * **Enable 2 Digit Supplements with 37x, 43x, or UPC # System 5**



Disable 2 Digit Supplements with 37x, 43x, or UPC # System 5



- * **Enable 5 Digit Supplements with 37x, 43x, or UPC # System 5**



Disable 5 Digit Supplements with 37x, 43x, or UPC # System 5



Enable Coupon Code 128



- * **Disable Coupon Code 128**



Enable Code 128 'JC1' Extended Code Format
–The scanner transmits a 'JC1' at the beginning of the Code 128 portion of the coupon code.



- * **Disable Code 128 'JC1' Extended Code Format.**



- * **Enable Code 128 Group Separators** – A “GS” (1DH) character will be transmitted with coupon Code 128 codes.



Disable Code 128 Group Separators



400 msec to Find Supplemental – The scanner will allot 400 milliseconds to *find* an add on after a main UPC/EAN bar code has been scanned.



200 msec to Find Supplemental – The scanner will allot 200 milliseconds to *find* an add on after a main UPC/EAN bar code has been scanned.



- * **100 msec to Find Supplemental** – The scanner will allot 100 milliseconds to *find* an add on after a main UPC/EAN bar code has been scanned.



Enable Code ID's with Supplements



*** Disable Code ID's with Supplements**



*** Beep Once on Supplements**



Beep Twice on Supplements



Enable ISBN Check Digit Transmission – Not available with all models.



Disable ISBN Check Digit Transmission



Enable Bookland to ISBN Conversion – Not available with all models.



*** Disable Bookland to ISBN Conversion**



Enable ISBN Re-Formatting



*** Disable ISBN Re-Formatting**



Enable Bookland to ISBN 979 Conversion



*** Disable Bookland to ISBN 979 Conversion**



*** Normal ISBN Re-Formatting**



13 Digit ISBN Re-Formatting



Disable Supplemental when CodeGate Button is Pressed – Available for MS9540 scanners only. Requires standard Code Gate be inactive in and out of stand.



*** CodeGate Does Not Affect Supplemental Scanning** – Available for MS9540 scanners only.



No Supplement Checking if EAN-13 Code is just scanned



*** Normal Supplement Checking**

GS1 DataBar

Honeywell's MS9520 Voyager® and MS9540 VoyagerCG® scanners with software #14810 and higher can be configured to scan GS1 DataBar type bar codes.



Double Border Required – Due to the large spaces commonly found in GS1 DataBar symbologies, Honeywell recommends double border requirements be enabled when scanning GS1 DataBar code type symbologies.



Enable GS1 DataBar 14



* **Disable GS1 DataBar 14**



* **Transmit GS1 DataBar 14 Check Digit**



Do Not Transmit GS1 DataBar 14 Check Digit



* **Transmit GS1 DataBar 14 Application ID** – Application Identifier “01” is transmitted by default.



Do Not Transmit GS1 DataBar 14 Application ID



* **Transmit GS1 DataBar 14 Symbology ID** – Symbology Identifier “je0” is transmitted by default.



Do Not Transmit GS1 DataBar 14 Symbology

GS1 DataBar Limited



Enable GS1 DataBar Limited



*** Disable GS1 DataBar Limited**



*** Transmit GS1 DataBar Limited CD**



Do Not Transmit GS1 DataBar Limited CD



*** Transmit GS1 DataBar Limited Application ID –**
Application identifier “01” is transmitted by default.



Do Not Transmit GS1 DataBar Limited
Application ID



*** Transmit GS1 DataBar Limited Symbology ID –**
Symbology identifier “je0” is transmitted by default.



Do Not Transmit GS1 DataBar Limited
Symbology ID

GS1 DataBar Expanded



Enable GS1 DataBar Expanded



*** Disable GS1 DataBar Expanded**



*** Transmit GS1 DataBar Expanded Symbol ID –**
Symbology identifier “je0” is transmitted by default.



Do Not Transmit GS1 DataBar Expanded
Symbol ID

ISBT Code 128 Implementation

Configuration Mode



Enable ISBT Code 128



Disable ISBT Code 128

The bar codes below enable or disable a special transmit mode as outlined in section 3.5.2 of the ISBT-128 Specification. This output method allows the user to confirm independently the accuracy of the Code-128 check digit.



Enable ISBT Special Transmit



Disable ISBT Special Transmit

The bar codes below enable or disable the transmission of the ISBT Code 128 data identifiers. When this option is enabled, the first two data characters are removed from the data stream (ID characters) unless the ISBT bar code scanned contains Donation Identification Number identifiers. If Donation Identification Number identifiers are present, only the first ID character is removed from the Donation ID Number. The second is regarded as normal data.



Don't Transmit ISBT ID's



*** Transmit ISBT Identifiers**

The bar codes below convert and transmit the Mode 37, 2 check digit from the flag digits of the Donation Identification Number provided the check digit is contained in the flag digits. Transmission of the Donation Identification number will be the same except for the last two digits, which are converted into a single check sum character.



Convert Flag Digits to Mod 37, 2 CD



*** Normal Flag Digit Transmission**

Concatenation Configuration Mode[†]

The following bar codes are used to configure variable time requirements used to find the second bar code of the ISBT concatenation sequence.



100 msec to Find Concatenation Sequence



200 msec to Find Concatenation Sequence



300 msec to Find Concatenation Sequence



400 msec to Find Concatenation Sequence



500 msec to Find Concatenation Sequence



600 msec to Find Concatenation Sequence



700 msec to Find Concatenation Sequence

Pre-Defined Concatenation Configuration Mode[†]

The first two bar codes below enable or disable pre-defined concatenation sequences. The remaining bar codes enable the specific pre-defined concatenation sequence shown, but are not needed to enable concatenation. They can be used to disable or re-enable any selected pre-defined concatenation sequence.



Enable Pre-Defined Concatenation Sequence



Disable Pre-Defined Concatenation Sequence



**Donation Identification Number + AB0/Rh (D)
Blood Groups =á + =% Concatenation**

[†] This feature is only supported in the MS9500 Voyager product series.



Donation Identification Number + Donor
Identification Number = á + &; Concatenation



Donation Identification Number + Confidential
Unit Exclusion Status = á + &! Concatenation



Product Code + Expiration Date (Form 1)
=< + => Concatenation



Product Code + Expiration Date (Form 2)
=< + &> Concatenation



Product Code + Expiration Date (Form 3)
&< + => Concatenation



Product Code + Expiration Date (Form 4)
&< + &> Concatenation

User-Defined Concatenation Configuration Mode

The first two bar codes shown below can be used to enable or disable user-defined concatenation sequences. The remaining bar codes are used to enter the user-defined identifiers used in the concatenation sequence. First enter configuration mode then scan the one of the identifier codes, followed by the code byte sequence or the desired identifiers.



Enable User-Defined Sequences



Disable User-Defined Sequences



1st Left Identifier



2nd Left Identifier



1st Right Identifier



2nd Right Identifier

† This feature is only supported in the MS9500 Voyager product series.

The following example demonstrates how to configure the User-Defined ISBT identifiers:

Assume the left-hand identifiers are the ISBT defined donation identification number: “=G”; and the right hand identifiers are country specific identifiers “&a”.

1. Scan the ENTER/EXIT configuration mode bar code.
2. Scan the 1st Left Identifier configuration mode bar code.
3. Scan (Code Byte 0) + (Code Byte 6) + (Code Byte 1).
4. Scan the 2nd Left Identifier configuration mode bar code.
5. Scan (Code Byte 0) + (Code Byte 7) + (Code Byte 1).
6. Scan the 1st Right Identifier configuration mode bar code.
7. Scan (Code Byte 0) + (Code Byte 3) + (Code Byte 8).
8. Scan the 2nd Right Identifier configuration mode bar code.
9. Scan (Code Byte 0) + (Code Byte 9) + (Code Byte 7).
10. Scan the Enable User-Defined Sequence bar Code.
11. Scan the Enable ISBT bar code.
12. Scan the ENTER/EXIT configuration mode bar code.

The scanner is now configured with the appropriate identifiers. Since both ISBT and User-defined Concatenation are enabled, ISBT 128 bar codes scanned successively that contain these identifiers will be concatenated.

An alternate method of the type found in section 4.8.1 of the ISBT specifications can be used for configuring user-defined concatenation sequences. Using the previous example, the identifiers can be configured into a single configuration mode bar code. The following bar codes can be used to enable and disable the user-defined concatenation.

Enable (Left, =G) + (Right, &a)



Disable (Left, =G) + (Right, &a)



Note: These configuration bar codes require Single-Code configuration mode. These bar codes are not recognized in Multi-Code configuration mode.

Two forms of concatenation can be enabled at any given time, one pre-defined sequence and the user-defined sequence. Code selects and ISBT Code-128 concatenation cannot be used simultaneously. Both functions use the same internal resources so they must remain mutually exclusive.

Communications



Enable Light Pen/Wand Communication –

Use this option if scanner should be used in place of a light pen.



* **Enable RS232** – The scanner will work with RS232 +/- 12V serial output.



Load Keyboard Wedge Defaults – Scan this code before selecting Normal or Stand Alone Wedge Mode.



Enable Stand-Alone Keyboard Scanner – Allows scanner to be used without an external keyboard.



Enable Keyboard Wedge Emulation – Select if the scanner provides keyboard emulation by converting the scanned bar code data to the PC keyboard scan code equivalent.



Load OCIA Defaults – Scan this code before selecting Enable OCIA output.



Enable OCIA Output – Select this option if the communications requirement is on Optically Coupled Interface Adapter (OCIA). This is a docked (by the host) serial interface.



Load RS485[†] Defaults



Enable RS485 Communication – Select this option for RS485 SIOC/RS485 communications. Not all scanners support this interface. The correct interface board is required.



Enable No Communication Mode – Select this option if the scanner does not interface with the host device.



Reserved



Reserved

[†] Applicable for IBM[®] Host applications.

Scanner Operation

Configuration Mode Options



Allow Configuration Mode on Power Up – The scanner can only enter MetroSet mode before any bar codes are scanned.



* **Allow Configuration Mode Anytime** – Allow MetroSet configuration at any time.



Allow configuration Codes on Power Up – Once a product bar code is scanned after power-up, the scanner will not accept configuration bar codes.



* **Allow Configuration Codes Anytime** – Allows scanning of configuration bar codes at any time.

Scan Buffers



* **1 Scan Buffer** – The scanner will scan one bar code in the scan field and not scan again until the bar code is removed from the scan field for the duration of the same symbol time out.



2 Scan Buffers – The scanner will scan two bar codes in the scan field one time each. These two bar codes will not be scanned again and until they are removed from the scan field for the duration of the same symbol time out.



3 Scan Buffers – Same function as 2 Scan Buffers, but three bar codes are in the scan field.



4 Scan Buffers – Same function as 2 Scan Buffers, but four bar codes are in the scan field.

Redundant Scans



* **0 Redundant Scans** – Requires 1 good decode for a *good scan*.



1 Redundant Scan – Requires 2 consecutive decodes of the same bar code data for a *good scan*.



2 Redundant Scans – Requires 3 consecutive decodes of the same bar code data for a *good scan*.



3 Redundant Scans – Requires 4 consecutive decodes of the same bar code data for a *good scan*.



4 Redundant Scans – Requires 5 consecutive decodes of the same bar code for a *good scan*.



5 Redundant Scans – Requires 6 consecutive decodes of the same bar code for a *good scan*.



6 Redundant Scans – Requires 7 consecutive decodes of the same bar code for a *good scan*.



7 Redundant Scans – Requires 8 consecutive decodes of the same bar code for a *good scan*.

Miscellaneous Decode Features



* **Optional Same Symbol Check** – Requires 1 different character between successive bar codes to consider the bar code new.



Normal Same Symbol Check – Requires 3 different characters between successive bar codes to consider the bar code new.

Same Symbol Time Outs

The length of time before a bar code can be rescanned after it is removed from the scan field is user-configurable in increments of 50 msecs to 6350 msecs (6.35 sec).

If using an MS9500 or IS4125, go to page 17–3.



~ **Variable Same Symbol Time Out** – While in configuration mode, scan this bar code followed by the appropriate code byte sequence (on page 16–1) to set the same symbol time out duration. *This feature is not supported for the MS9500 series or the IS4125, refer to page 17–3 for additional information.*



No Same Symbol Time Out



Infinite Same Symbol Time Out – The scanner will not repetitively scan the same bar code. This option overrides the symbol rescan time-outs.



Enable 2 Second Time Out – after 2 seconds of inactivity the laser will turn off and stay off until the CodeGate button is pressed. *This feature is for the MS5145 only.*



Disable 2 Second Time Out

LED Options



Flash Green LED if Rescan Allowed – This indicates same symbol timeout has elapsed.



Do Not Flash Green LED if Rescan Allowed



Reverse LED Functions – Red = Laser On
Green = Good Read



* **Normal LED Functions** – Green = Laser On
Red = Good Read

Beeper Options



*** Normal Tone**



Optional Tone 1



Optional Tone 2



Optional Tone 3



Optional Tone 4



Optional Tone 5



Optional Tone 6



No Beep



*** Beep Once on Supplements**



Beep Twice on Supplements



Enable Fast Beep



*** Disable Fast Beep**



Enable Fun Tones – scan this bar code then scan one of the Optional Tone bar codes above.



*** Disable Fun Tones**



Beep on BEL Command – The scanner beeps when it receives a BEL character from the host. If a number is sent within 200 msec before the BEL character, the scanner will beep that number of times.



*** Ignore BEL Command**



Enable Light Pen Toggle During Beep – The scanner beeps and toggles the light pen data line on a successful decode. This drives a good read indicator.



*** Disable Light Pen Toggle During Beep**



Enable Pass-Through



Disable Pass-Through



Beep with Pass-Through Data



*** No Beep with Pass-Through Data**



Enable Record Count Capture



*** No Record Count Capture**



Transmit Record Counts

Data Transmission Delays

Use these codes to select the amount of delay between sending data characters from the scanner to the host. This helps prevent the scanner from overflowing host-input buffers.



* 1 msec Intercharacter Delay



10 msec Intercharacter Delay



25 msec Intercharacter Delay



~ **Variable msec Intercharacter Delay** – Scan this bar code and a sequence of code bytes on page 16–1 to set the delay between characters sent to the host system (range from 1 to 255 msecs.).



No Intercharacter Delay



~ **Variable Inter-Record Delay**



Turn Off Laser During Inter-Record Delay



* **Leave Laser On During Inter-Record Delay**

Communication Time Out Options



Enable Communications Time Out



* Disable Communications Time Out



* Beep Before Transmit



Beep After Transmit



~ Variable Communications Time Out



* Default Communications Time Out (2 secs)



Short Communications Time Out (1 secs)



Long Communications Time Out (4 secs)



Three Beeps on Time Out



* No Beeps on Time Out



Razzberry Tone on Time Out



* No Razzberry Tone on Time Out

Host Scanner Commands



Enable D/E Disable Command – The scanner will disable scanning after it receives an ASCII “D” from the host device. It will enable scanning when it receives an ASCII “E”.

- * **Disable D/E Disable.**
-



Enable Z/R Type D/E Simulation – The scanner will disable scanning after it receives an ASCII “Z” from the host device. It will enable scanning when it receives an ASCII “R”.

- * **No Z/R Type D/E Simulation**
-



Enable F/L Laser Command – The scanner will turn *off* the laser after the scanner receives an ASCII “F” character. The laser will turn *on* after it receives an ASCII “L” character.

- * **Disable F/L Laser Command**
-



Use DTR Scan Disable – The scanner will monitor the DTR input to determine if scanning should be allowed. A +12V active level enables decoding. A -12V inactive level disables decoding.

- * **Do Not Use DTR Scan Disable** – Do not monitor the DTR input.
-



Activate DC2 Character – Scanning will be initiated with the receipt of a DC2 character (^R, 124).

- * **Do Not Activate on DC2 Character**
-



Transmit “METROLOGIC” with receipt of an “I” (49H) via RS232



- * **Don’t Transmit “METROLOGIC” with receipt of an “I” (49H) via RS232**
-



Transmit Scanner ID byte with receipt of an “i” (69H) via RS232 – The ID byte is transmitted as 3 bytes (i.e. 0, 0, 1).



*** Don't Transmit Scanner ID byte with receipt of an “i” (69H) via RS232**



Transmit NO READ if DC2 Activated



*** Do Not Transmit NO READ if DC2 Activated**



No Green LED During NO READ Transmit



*** Green LED During NO READ Transmit**



Transmit Serial Number



Enable Motor On/Off Commands



*** Disable Motor On/Off Commands**



Disable RS232 Receive



Normal RS232 Receive



Enable Banco Control Mode



Disable Banco Control Mode



Use Protocol Prefix and Suffix for Bar Code Transmission



- * **No Protocol Prefix and Suffix for Bar Code Transmission**



Enable RTS on No Read – After a NOREAD occurs, the scanner will activate the RTS line for 20 milliseconds. The duration of the RTS activation can be loaded in address 199 bits 6–0 in 10 millisecond steps.



- * **Disable RTS on No Read**

Test Modes



Scan Count Mode ON – The scanner will enter scan count test mode and the scanner's firmware number will transmit to the host. *Do not enable unless instructed by a Honeywell representative.*



- * **Scan Count Mode OFF**



Power-Up with Saved Interface – *Do not enable unless instructed by a Honeywell representative.*



- * **Power-Up with Board Interface** – *Do not enable unless instructed by a Honeywell representative.*

Prefixes/Suffixes

Scan the Enter Configuration Mode bar code before trying to set these features (see the Multi-Code Method on page 1–1).

User Configurable Prefixes, All Data



~ **Configurable Prefix Character #1** – A prefix ID can be added and assigned for data transmission. Use this code with a code byte sequence, on page 16–1, which represents the desired character.



~ **Configurable Prefix Character #2** – Assigns a second configurable prefix character.



~ **Configurable Prefix Character #3** – Assigns a third configurable prefix character.



~ **Configurable Prefix Character #4** – Assigns a fourth configurable prefix character.



~ **Configurable Prefix Character #5** – Assigns a fifth configurable prefix character.



~ **Configurable Prefix Character #6** – Assigns a sixth configurable prefix character.



~ **Configurable Prefix Character #7** – Assigns a seventh configurable prefix character.



~ **Configurable Prefix #8** – Assigns an eighth configurable prefix character.



~ **Configurable Prefix Character #9** – Assigns a ninth configurable prefix character.



~ **Configurable Prefix Character #10** – Assigns a tenth configurable prefix character.



* **Clear All User Configurable Prefixes**

User Configurable ID Characters, Code Specific



- * **Use Configurable Code ID Bytes as Prefixes** – User configured, code specific ID bytes are transmitted before the data. If using prefixes, user configured suffixes cannot be used.



- Use Configurable Code ID Bytes as Suffixes** – User configured, code specific ID bytes are transmitted after the data. If using suffixes, user configured prefixes cannot be used.

‡ Enter configuration mode then scan this bar code followed by the three code byte bar codes (on page 16–1) that represent a unique ID character to be associated with this bar code type.



- ~ **Configurable UPC-A ID ‡**



- ~ **Configurable UPC-E ID ‡**



- ~ **Configurable EAN-8 ID ‡**



- ~ **Configurable EAN-13 ID ‡**



- ~ **Configurable Code 39 ID ‡**



- ~ **Configurable Code 128 ID ‡**



- ~ **Configurable Code 93 ID ‡**



- ~ **Configurable Code 11 ID ‡**



- ~ **Configurable Telepen ID ‡**

- ‡ Enter configuration mode then scan this bar code followed by the three code byte bar codes (on page 16–1) that represent a unique ID character to be associated with this bar code type.



~ Configurable TRI-OPTIC ID ‡



~ Configurable Standard 2 of 5 ID ‡



~ Configurable Interleaved 2 of 5 ID ‡



~ Configurable Matrix 2 of 5 ID ‡



~ Configurable Airline 2 of 5 ID ‡



~ Configurable MSI Plessey ID ‡



~ Configurable UK Plessey ID ‡



~ Configurable Codabar ID ‡



* **Clear All Configurable Code Specific ID's** –
Clears all unique ID characters previously identified.



Enable Teraoka ID



* **Disable Teraoka ID**



Enable Taiwan 7-11 ID



* **Disable Taiwan 7-11 ID**

Standard Prefix Characters



Enable STX Prefix – The scanner will transmit a Start of TeXt (ASCII 02H) before each bar code.

* **Disable STX Prefix**



Enable Rochford-Thomson Mode

* **Disable Rochford-Thomson Mode**



Enable AIM ID Characters

* **Disable AIM ID Characters**



Enable UPC Prefix ID – A prefix will be transmitted before any UPC/EAN code. The prefixes are A (UPC-A), E0 (UPC-E), F (EAN-13), and FF (EAN-8).

* **Disable UPC Prefix ID.**



Enable NCR Prefix ID – A prefix will be transmitted before the following code types. The prefixes are as follows: A (UPC-A), E0 (UPC-E), FF (EAN-8), F (EAN 13), B1 (Code 39) B2 (ITF), B3 (Code 128 and other codes).

* **Disable NCR Prefix ID**



Enable NCR Prefix Character



Enable Nixdorf ID Characters – This option transmits code identities before each bar code for many Siemen/Nixdorf registers.

* **Disable Nixdorf ID Characters**





Enable SANYO ID Characters



*** Disable SANYO ID Characters**



Enable Manufacturer ID Prefix



*** Disable Manufacturer ID Prefix**



Enable "C" Prefix



*** Disable "C" Prefix**



Enable "\$" Prefix ID for UPC/EAN



*** Disable "\$" Prefix ID for UPC/EAN**



Enable Tab Prefix – The scanner will transmit a TAB (ASCII 09H) before each bar code.



*** Disable Tab Prefix**



Enable SNI Beetle Mode



*** Disable SNI Beetle Mode**



Enable Cipher 1021 IDs



*** Disable Cipher 1021 IDs**



Enable Tec 7-11 IDs



*** Disable Tec 7-11 IDs**

Standard Suffix Characters



*** Enable CR Suffix** – The scanner transmits a carriage return after each bar code.



Disable CR Suffix.



*** Enable LF Suffix** – The scanner transmits a line feed after each bar code. *Disabled when keyboard wedge defaults are loaded.*



Disable LF Suffix.



Enable Tab Suffix – The scanner will transmit a TAB (ASCII 09H) after each bar code.



*** Disable Tab Suffix**



Enable ETX Suffix – The scanner will transmit End of TeXt (ASCII 03H) after the bar code date.



*** Disable ETX Suffix**



Enable UPC Suffix ID – The scanner will transmit a suffix after any UPC/EAN bar code. The suffixes are A (UPC-A), E (UPC-E), F (EAN-13) and F (EAN-8).



*** Disable UPC Suffix ID**



Enable NCR Suffix Character

Longitudinal Redundancy Check

A Longitudinal Redundancy Check (LRC) is an error checking character that is calculated across a sequence of data characters. It is determined by eXclusive ORing (XOR) the characters to be checked, starting with an initial value of 00H.

The result, an “LRC byte” is then transmitted following the data stream and used by the receiving computer to determine if the information was received correctly. In the scanner’s case, XOR is performed prior to adding parity bits.

When the LRC is enabled, the scanner defaults to starting the LRC on the second byte of information transmitted. Optionally, the calculation can start on the first byte transmitted.



Enable Transmit of LRC Calculation – The scanner outputs on LRC check character after the bar code.



* **Disable Transmit of LRC Calculation.**



* **Start LRC on First Byte** – The scanner will calculate the LRC check digit starting with the first character.



Start LRC on Second Byte – The scanner will calculate the LRC check digit starting with the second character.

Block Check Character



* **Enable NCR BCC**



Disable NCR BCC

Character Replacements

To replace a character:

1. Scan the *enter/exit configuration mode* bar code (on page 1–1).
2. Scan the *character to replace* code (shown below).
3. Scan the ASCII code byte value of the character you wish to replace. Refer to the ASCII Reference Table in the Code Byte Usage section of this manual.
4. Scan the *replacement character* bar code (shown below).
5. Scan the ASCII code byte value of the replacement character.
6. Scan the *enter/exit configuration mode* bar code (on page 1–1).



~ Character to Replace



~ Replacement Character



No Replacement

User Configurable Suffixes, All Data

Note: Scan the *Enter/Exit Configuration mode* code before trying to set this feature. Refer to *Multi-Code Method* on page 1–1.



~ **Configurable Suffix Character #1** – A suffix ID can be added and assigned for data transmission. Use this code with a 3 code byte sequence, on page 16–1, which represents the desired character.



~ **Configurable Suffix Character #2** – Assigns a second configurable suffix character.



~ **Configurable Suffix Character #3** – Assigns a third configurable suffix character.



~ **Configurable Suffix Character #4** – Assigns a fourth configurable suffix character.



~ **Configurable Suffix Character #5** – Assigns a fifth configurable suffix character.



~ **Configurable Suffix Character #6** – Assigns a sixth configurable suffix character.



~ **Configurable Suffix Character #7** – Assigns a seventh configurable suffix character.



~ **Configured Suffix Character #8** – Assigns an eighth configurable suffix character.



~ **Configurable Suffix Character #9** – Assigns a ninth configurable suffix character.



~ **Configurable Suffix Character #10** – Assigns a tenth configurable suffix character.



* **Clear All User Configurable Suffixes**

Special Formats



Enable SINEKO Mode



* Disable SINEKO Mode



Enable Newcode Formatting Mode A



* Disable Newcode Formatting Mode A



Enable Newcode Formatting Mode B



* Disable Newcode Formatting Mode B



Remove All Leading Zero's



* Do Not Remove Leading Zero's



Enable MS951 CAPS Lock



* Disable MS951 CAPS Lock



Enable HCA Parsing



Disable HCA Parsing

Code Formatting

UPC/EAN Formatting



* Transmit UPC-A Check Digit



Do Not Transmit UPC-A Check Digit



Transmit UPC-E Check Digit



* Do Not Transmit UPC-E Check Digit



Expand UPC-E to 12 Digits – Expand UPC-E bar codes to the 12 digit equivalent, UPC-A bar codes.



* Do Not Expand UPC-E to 12 Digits



* Send Number System on Expanded UPC E



Do Not Send Number System on Expanded UPC E



Enable GTIN Formatting



* Disable GTIN Formatting



Convert UPC-A to EAN-13 – The scanner converts UPC-A to EAN-13 by transmitting a leading zero before the bar code.



* Do Not Convert UPC-A to EAN-13



Transmit Lead Zero on UPC-E – This option will transmit a zero before each UPC-E bar code.



Do Not Transmit Lead Zero on UPC-E



Convert EAN-8 to EAN-13 – The scanner will transmit five zeros before the bar code to convert EAN-8 to EAN-13.



* **Do Not Convert EAN-8 to EAN-13**



* **Transmit UPC-A Number System**



Do Not Transmit UPC-A Number System



* **Transmit UPC-A MFR #**



Do Not Transmit UPC-A MFR #



* **Transmit UPC-A ITEM #**



Do Not Transmit UPC-A ITEM #



* **Transmit EAN-8 Check Digit**



Do Not Transmit EAN-8 Check Digit



* **Transmit EAN-13 Check Digits** – The scanner will transmit EAN-13 Check Digit.



Do Not Transmit EAN-13 Check Digit.

Codabar Formatting



Transmit Codabar Start/Stop Characters –
Transmits Codabar's Start/stop characters before and after each bar code.



*** Do Not Transmit Codabar Start/Stop**



*** Normal Codabar Start/Stop Characters**



Enable Transmit Codabar Start/Stop Characters as Lower Case Characters



Enable CLSI Editing – Works only with 14 digit Codabar type lengths. This option will perform CLSI type editing before the information is transmitted to the host.



*** Do Not Enable CLSI Editing**



Enable Codabar Mod-16 Check Digit



*** Disable Codabar Mod-16 Check Digit**



Enable Codabar “7-Check” Check Digit



*** Disable Codabar “7-Check” Check Digit**



*** Transmit Codabar Check Digit**



Don't Transmit Codabar Check Digit

Code 39 Formatting



Transmit Mod 43 Check Digit on Code 39 – This feature works in conjunction with *Mod 43 Check Digit on Code 39* option, on page 2–2. Both must be enabled for this feature to work.



* **Do Not Transmit Mod 43 Check Digit on Code 39**



Transmit Code 39 Stop/Start Characters – The scanner transmits Code 39's start and stop characters before and after each bar code.



* **Do Not Transmit Code 39 Stop/Start Characters**



Transmit an “A” (41H) Prefix if Italian Pharmaceutical



* **Do not Transmit an “A” (41H) Prefix if Italian Pharmaceutical**

Code 11 Formatting



Transmit Code 11 Check Digit – This bar code will transmit Code 11 check characters when used with *Enabled Code 11* on page 2–6.



* **Do Not Transmit Code 11 Check Digit**

Telepen



Enable Convert Telepen ^L to E



* **Disable Convert Telepen ^L to E**

Plessey



Transmit UK Plessey Check Digit – The scanner will transmit UK Plessey Check Digit characters and must be used with the UK Plessey option.



* **Do Not Transmit UK Plessey Check Digit**



Enable UK Plessey Special Format



Disable UK Plessey Special Format



Transmit MSI Plessey Check Digit – This option works in conjunction with one or both of the Enabled MSI Plessey Mod options on page 2–7.



* **Do Not Transmit MSI Plessey Check Digit**

2 of 5 Code Formatting



Transmit Mod 10 Check Digit on ITF – The scanner transmits interleaved 2 of 5 (ITF) Mod 10 check character.



* **Do Not Transmit Mod 10 Check Digit on ITF** – Works in conjunction with Mod 10 check on ITF. Both must be enabled for this feature to work.



Transmit Matrix 2 of 5 Check Digit



* **Do Not Transmit Matrix 2 of 5 Check Digit**

RS232



- * **Enable RS232 Mode** – The scanner will work with RS232 +/-12V serial output.

Parity Features

A parity bit is an extra data bit used to help catch data transmission errors. The scanner's parity must match the host's parity.



No Parity



Odd Parity – Select to set the parity bit to either a 1 or a 0 to ensure an odd number of bits are 1s.



- * **Space Parity** – Select to set the parity bit always to 0.



Even Parity – Select to set the parity bit to either a 1 or 0 to ensure an even number of bits are 1s.



Mark Parity – Select Mark Parity to set the parity bit always to 1.

Baud Rate



115200 BAUD Rate
(Not available with Voyager)



57600 BAUD Rate
(Not available with Voyager)



38400 BAUD Rate



19200 BAUD Rate



14400 BAUD Rate



* 9600 BAUD Rate



4800 BAUD Rate



2400 BAUD Rate



1200 BAUD Rate



600 BAUD Rate



300 BAUD Rate

Data/Stop Bits



8 Data Bits – The number of data bits transmitted for each character.



* 7 Data Bits



1 Stop Bit



* 2 Stop Bits

Hardware Handshaking



Enable RTS/CTS Handshaking – Output a *Request to Send* (RTS) signal and wait for a *Clear to Send* (CTS) signal before transmitting data.



* **Disable RTS/CTS Handshaking.**



- * **Character RTS/CTS** – Activates/Deactivates RTS signal for each character.



Message RTS/CTS – Activates RTS before sending the first character and leaves it active until after the last character has been transmitted.



Invert RTS Polarity (RSV1)

-12V = Active +12V = Inactive



- * **Standard RTS Polarity** – Use standard RTS polarity
-12V = Inactive +12V = Active



Invert CTS Polarity (RSV2)

-12V = Active, +12V = Inactive,
OK to send Do not send



- * **Standard CTS Polarity**

-12V = Inactive, +12V = Active,
Do not send OK to send



Activate RTS, Do Not Wait for CTS (RSV3) – Activate RTS for transmission but do not wait for CTS to send.



- * **Activate RTS, Wait for CTS** – Wait for CTS after activating RTS.



Test CTS Not Present Before RTS (RSV4) – Do not activate RTS if CTS is already present.



- * **Do Not Test for CTS Present Before RTS**



Enable DTR Support – The scanner will stop scanning when the *Data Terminal Ready* (DTR) signal goes inactive.



- * **Disable DTR Support**



Enable RTS Counter Toggle – The scanner will toggle the RTS line on a good decode.



* **Disable RTS Counter Toggle**



Enable XON/XOFF Handshaking – The scanner will stop transmission whenever on XOFF (ASCII 13H) is received. Transmission will resume after an XON (ASCII 11H) is received.



* **Disable XON/XOFF Handshaking.**

Software Handshaking



Enable ACK/NAK – After transmitting data, wait for an ACK (06H) or a NAK (15H) response from the host. If ACK is received, complete the communications cycle and look for more bar codes. If NAK is received, retransmit the last set of bar code data and wait for ACK/NAK again.



* **Disable ACK/NAK**



Support BEL/CAN in ACK/NAK – When BEL (07H) is received, the scanner beeps 3 times and exits the communications loop. If a CAN (18H) is received, then the scanner will exit the communications loop, silently.



* **Ignore BEL/CAN in ACK/NAK** – Ignore BEL/CAN characters in communication loop.



Enable 5 Retries on ACK/NAK Time Out – Allow up to 5 NAK retransmissions of the data before dropping out of the communications loop.



* **Disable 5 Retries on ACK/NAK Time Out**



Enable 5 NAK Retries

Allow up to 5 retransmissions of the data if a NAK is received.



*** Disable 5 NAK Retries**



Enable GLS Handshaking – Accept JV for the ACK acknowledgement. ACK will no longer be accepted but NAK and any additional ACK/NAK protocol characters enabled are still accepted.



*** Disable GLS Handshaking**

Miscellaneous



Enable French PC Term – The scanner transmits PC type make/break scan codes instead of ASCII data characters. The scan codes match a WYSE French PC Term.



*** Disable French PC Term**



Enable NCR Scanner – Only Commands



*** Disable NCR Scanner – Only Commands**

Keyboard

Enable Keyboard Emulation



Load Keyboard Wedge Defaults – Loads the default settings for keyboard wedge mode.



Enable Stand-Alone Keyboard Emulation – Use this with special stand-alone models that are not cabled for an external keyboard. Scan this bar code to enable the Stand-Alone Mode. The scanner will send keyboard “power on” information and configure hardware to simulate a constant keyboard connection.



Enable Keyboard Wedge Emulation – Use this with an external keyboard. Transmit in wedge mode to allow standard PC keyboards to communicate when no bar code data is available.

Country/Scan Code Table Selects



* **USA Keyboard**



Switzerland Keyboard



Spain Keyboard



Italy Keyboard



Germany Keyboard



France Keyboard



UK Keyboard



Belgium Keyboard



Japan Keyboard



IBM 4700 Financial Keyboard



Sweden/Finland Keyboard



Slovenian Keyboard

Keyboard/System Type



* **AT Keyboard** – Includes IBM PS/2 and compatible models 50, 55, 60, 80.



XT Keyboard – Special firmware in Voyager.



PS/2 Keyboard – Includes IBM PC and compatible models 30, 70, 8556.



Enable Terminal Keyboard Emulation.



Enable XT Keyboard for Mode 1 – Special firmware in Voyager.



Enable XT Keyboard for Mode 2 – Special firmware in Voyager.

‘Dumb’ Terminal Selections

Note: The following terminals may require custom cables.



IBM Terminal Keyboards



Reserved Terminal Keyboard #2



Reserved Terminal Keyboard #3



Reserved Terminal Keyboard #4



Reserved Terminal Keyboard #5



Reserved Terminal Keyboard #6



Reserved Terminal Keyboard #7



Reserved Terminal Keyboard #8



Lower Case Lock On – transmit all data as lower case.



*** Lower Case Lock Off**



Spanish Keyboard Ñ Substitution – the following two characters will translate as follows:
to Ñ and ^ to ñ.



*** No Spanish Keyboard Ñ Substitution**

Special Keyboard Features



Transmit Make Code Only – Not available on all models.



* **Transmit Make/Break Code** – Not available on all models.



* **Transmit FOH Break Code** – The scanner will transmit the FOH in the break-code sequence.



Do Not Transmit FOH Break Code



Transmit Cleanup Bit – Use for certain NEC computers.



* **Do Not Transmit Cleanup Bit**



Enable Alt-Mode – See *Enable ALT-Mode (Normal)* for description.



* **Disable Alt-Mode** – Caution: If host software application uses the right Alt key as a “Hot” key, Alt-mode must be disabled.

† These settings only apply if the Alt-Mode (shown above) is enabled.



* **Enable Alt-Mode (Normal)** †
The scanner will duplicate the following keyboard sequence; *Hold down the Alt key and Type the three digit decimal number that corresponds to the appropriate character.*



Enable Alt-Mode (Advanced) †
The scanner will duplicate the following keyboard sequence; *Hold down the Alt key and Type the four digit decimal number that corresponds to the appropriate character.*



Enable Auto Detect Mode (AT/PS2) – Automatically detects caps lock status.



* **Disable Auto Detect Mode (AT/PS2)**



Enable Caps Lock (XT)



* **Disable Caps Lock (XT)**



Send Numbers as Keypad Data – All data is sent as if it has been entered on a keypad.



* **Send Numbers as Normal Data**



Enable Reserved Feature



* **Disable Reserved Feature**



* **Use Extended ASCII To Send Extended Key Codes** – Use extended ASCII characters to send PC keyboard keys e.g., F1, F2.



Use Extended ASCII Characters as Extended ASCII – Transmit extended ASCII codes via Alt Mode.



* **Character KB Inhibit**



Message KB Inhibit



Enable Right Alt Key Sequencing



Disable Right Alt Key Sequencing



Enable LaCaixa Special Keyboard Prefix & Suffix Scan Codes



*** Disable LaCaixa Special Keyboard Prefix & Suffix Scan Codes**

InterScan Code Delays



*** InterScan Code Delay 800 msec** – The time specified represents the amount of time between individual 11-bit scan codes. This parameter may need to be adjusted for operation with certain PC keyboard BIOS.



InterScan Code Delay 7.5 msec – This time specified represents the amount of time between individual 9-bit scan codes. This parameter may need to be adjusted for operation with certain PC keyboard BIOS.



InterScan Code Delay 15 msec – The time specified represents the amount of time between individual 11-bit scan codes. This parameter may need to be adjusted for operation with certain PC keyboard BIOS.



~ Variable InterScan Code Delay msec – Refer to *Multi-Code Method* on page 1–1. Sets value in 100 microsecond increments.

Control Sets

In general, standard bar code symbologies will only encode the ASCII character set. Function keys, arrow keys and many other extended keys on an IBM compatible keyboard do not translate to ASCII characters. One method of 'bar coding' the extended keys is to substitute the extended key codes when a specific ASCII control character is found in the bar code stream. The Control Sets are specific translations of the ASCII (HEX) set.

Control Set #1



Enable Control Set #1



* **Disable Control Set #1**

ASCII (HEX)	ASCII Control	Extended Key
00H	Null	Numeric Keypad + (Plus)
01H	SOH	Num Lock
02H	STX	Down Arrow
03H	ETX	Numeric Keypad - (Minus)
04H	EOT	Insert
05h	ENQ	Delete
06H	ACK	System Request
07H	BEL	➔ (Right Arrow)
08H	BS	➜ (Left Arrow)
09H	TAB	Tab
0AH	LF	Caps Lock
0BH	VT	Shift Tab
0CH	FF	Left Alt
0DH	CR	Enter
0EH	SO	Left Control
0FH	SI	Up Arrow
10H	DLE	F1
11H	DC1	F2
12H	DC2	F3
13H	DC3	F4
14H	DC4	F5
15H	NAK	F6
16H	SYN	F7
17H	ETB	F8
18H	CAN	F9
19H	EM	F10
1AH	SUB	Home
1BH	ESC	Esc
1CH	FS	Page Up
1DH	GS	Page Down
1EH	RS	Print Screen
1FH	US	End



Enable OCIA Mode – Select this option if communications requires OCIA (Optically Coupled Interface Adapter). The host clocks this serial interface.



Load OCIA Defaults



Enable DTS/Siemens



* **Enable DTS/Nixdorf**



Enable NCR-S



Enable NCR-F



* **Transmit character count with non-UPC codes while transmitting in OCIA NCR-S mode**



Do not Transmit character count with non-UPC codes while transmitting in OCIA NCR-S mode

Light Pen Parameters



Enable Light Pen Mode – Select this option if the scanner will be used in place of a light pen. It provides light pen emulation of each bar code scanned.



* **Bars High**



Spaces High



Transmit as Code 39 – All bar codes will be decoded then transmitted as Code 39 bar codes.



* **Transmit as Scanned** – All bar codes will be decoded and transmitted in that symbology.



Poll Light Pen Source – The scanner waits for an active source voltage before transmitting data.



* **Do Not Poll Light Pen Source**



Enable Inverted IDLE/Extra Toggle – The scanner beeps and toggles the light pen data line with an extra data pulse to condition the decoder.



* **Disable Inverted IDLE/Extra Toggle**



Enable Pre-Transmit Toggle of RTS Line



* **Disable Pre-Transmit Toggle of RTS Line**

Set Narrow Element Width



10x Narrow Element Border – Allows the transmission of Light Pen/Wand emulation using a 10x border.



* **50x Narrow Element Border** – Allows the transmission of Light Pen/Wand emulation using a 50x border.



* **1 ms Narrow Element Width** – Allows the transmission of Light Pen/ Wand emulation at 1ms Narrow Element width.



60 μs Narrow Element Width



100 μs Narrow Element Width



500 μs Narrow Element Width



~ **Variable Narrow Element Width** – Sets the minimum x-dimension in 6 μs increments. Scan this code followed by a 3-digit code byte sequence (on page 16–1).

IBM® 46xx Configuration

IBM Port



Enable RS485 Communication – For RS485 communications. Not all scanners support this interface. The correct interface board is required.



Load RS485 Defaults – Load default format settings for the RS485 systems.



IBM Port 17B 3687-2 In Counter



IBM Port 5B 1520 HH Laser



* **IBM Port 9B 4500 CCD HH BCR1**



IBM Port 9B 4501 CCD HH BCR2



* **Disable CTS select of RS485 vs RS232**



Enable RS485 transmit when CTS = -12 Volt & RS232 transmit when CTS = +12 Volt

IBM Reserved Codes



IBM Reserved #1



IBM Reserved #2



IBM Reserved #3



IBM Reserved #5



Enable USB Interface◆



Enable Low Speed USB Defaults◆

- ◆ This feature is limited to Honeywell scanners without integrated Low Speed USB electronics. These bar codes configure the scanner to communicate via the MX009.



Load Integrated Full Speed USB Keyboard Emulation Defaults



Load Integrated Full Speed USB IBM/OEM Defaults



Load Integrated Low Speed USB OPOS Defaults
Feature is limited to scanners with internal Low-Speed USB interfaces with specific software versions.



IBM OEM Scanner 4B00h Hand-Held – Full Speed USB Only



IBM OEM Scanner 4A00h Flat-Bed – Full Speed USB Only



*** Enable USB Keyboard Emulation Mode**

Note: USB Keyboard Emulation Mode is a factory default. If the *Recall Defaults* bar code is scanned while reconfiguring the scanner, the scanner configuration will revert to the factory default setting discarding any previous configuration settings for USB Serial Emulation. To enable the Serial Emulation Mode, rescan the *Bi-Directional* or *Uni-Directional USB Serial Emulation Mode* bar code on page 15–2.



Enable Uni-Directional USB Serial Emulation Mode –Supported in Honeywell MS9500, MS5100 and IS4125 laser-class products.

Note: This bar code enables ***Bi-Directional USB Serial Emulation Mode*** in the Honeywell Focus[®] area-imaging products.



Enable Bi-Directional USB Serial Emulation Mode – Supported in Honeywell MS9500, MS5100 and IS4125 laser-class products.

Note: This configuration code is not supported for Focus/Imager class products (see note above).



Enable Bar Code ID



Disable Bar Code ID



Enable USB Reserve Code #1



Disable USB Reserve Code #1



Enable USB Reserve Code #2



Disable USB Reserve Code #2



Sears USB Defaults



Sears Aux Defaults



Enable IBM 1520 Code Flag Emulation – UPC code IDs and ITF code IDs remain the same but all other code IDs are transmitted as Code 39 (IBM OEM Scanner Modes).



Disable IBM 1520 Code Flag Emulation

Code Bytes Usage

The scanner must be in Configuration Mode for the features requiring code bytes for configuration. The Enter/Exit Configuration Mode bar code must be scanned before starting the configuration cycle. User configurable prefix/suffix characters can then be saved by scanning the 3 digit decimal equivalent of the ASCII character into the appropriate character location with the code byte bar codes.

Example: To add an Asterisk (*) as a Prefix, scan the bar codes.

1. *Enter/Exit Configuration Mode* (3 beeps)
2. Configurable Prefix #1 (1 beep)
3. Code Byte 0 (1 beep)
4. Code Byte 4 (2 beeps)
5. Code Byte 2 (3 beeps)
6. *Enter/Exit Configuration Mode* (3 beeps)

Code Bytes 0–9



Code Byte 0



Code Byte 1



Code Byte 2



Code Byte 3



Code Byte 4



Code Byte 5



Code Byte 6



Code Byte 7



Code Byte 8



Code Byte 9

Reserved Codes



~ **Enable Reserved Code** – Contact Honeywell for information about this feature.



~ **Disable Reserved Code**

Code Type Table

Code Byte	Code Types
004	UPC-A
002	UPC-E
003	EAN-8
005	EAN-13
080	Code 39
081	Codabar
082	Interleaved 2 of 5
083	Code 128
084	Code 93
091	MSI Plessey
092	Code 11
093	Airline 2 of 5 (15 digits)
094	Matrix 2 of 5
095	Telepen
096	UK Plessey
099	TRI-OPTIC
098	Standard 2 of 5
097	Airline (13 digits)

ASCII Reference Table

HEX Value	Decimal Value/ Code Byte Value	Character	Control Keyboard Eqv
00	000	NUL	@
01	001	SOH	A
02	002	STX	B
03	003	ETX	C
04	004	EOT	D
05	005	ENQ	E
06	006	ACK	F
07	007	BEL	G
08	008	BS	H
09	009	HT	I
0A	010	LF	J
0B	011	VT	K
0C	012	FF	L
0D	013	CR	M
0E	014	SO	N
0F	015	SI	O
10	016	DLE	P
11	017	DC1	Q
12	018	DC2	R
13	019	DC3	S
14	020	DC4	T
15	021	NAK	U
16	022	SYN	V
17	023	ETB	W
18	024	CAN	X
19	025	EM	Y
1A	026	SUB	Z
1B	027	ESC	[
1C	028	FS	\

HEX Value	Decimal Value/ Code Byte Value	Character	Control Keyboard Eqv
1D	029	GS	^
1E	030	RS	_
1F	031	US	space,blank
20	032	SP	
21	033	!	
22	034	"	
23	035	#	
24	036	\$	
25	037	%	
26	038	&	
27	039	'	apostrophe
28	040	(
29	041)	
2A	042	*	
2B	043	+	
2C	044	,	comma
2D	045	-	minus
2E	046	.	period
2F	047	/	
30	048	0	number zero
31	049	1	number one
32	050	2	
33	051	3	
34	052	4	
35	053	5	
36	054	6	
37	055	7	
38	056	8	
39	057	9	
3A	058	:	
3B	059	;	

HEX Value	Decimal Value/ Code Byte Value	Character	Control Keyboard Eqv
3C	060	<	less than
3D	061	=	
3E	062	>	greater than
3F	063	?	
40	064	@	shift P
41	065	A	
42	066	B	
43	067	C	
44	068	D	
45	069	E	
46	070	F	
47	071	G	
48	072	H	
49	073	I	letter I
4A	074	J	
4B	075	K	
4C	076	L	
4D	077	M	
4E	078	N	
4F	079	O	letter O
50	080	P	
51	081	Q	
52	082	R	
53	083	S	
54	084	T	
55	085	U	
56	086	V	
57	087	W	
58	088	X	
59	089	Y	

HEX Value	Decimal Value/ Code Byte Value	Character	Control Keyboard Eqv
5A	090	Z	
5B	091	[shift K
5C	092	\	shift L
5D	093]	shift M
5E	094	^	à,shift N
5F	095	_	♣, shift O, underscore
60	096	`	accent grave
61	097	a	
62	098	b	
63	099	c	
64	100	d	
65	101	e	
66	102	f	
67	103	g	
68	104	h	
69	105	i	
6A	106	j	
6B	107	k	
6C	108	l	
6D	109	m	
6E	110	n	
6F	111	o	
70	112	p	
71	113	q	
72	114	r	
73	115	s	
74	116	t	
75	117	u	
76	118	v	
77	119	w	
78	120	x	

HEX Value	Decimal Value/ Code Byte Value	Character	Control Keyboard Eqv
79	121	y	
7A	122	z	
7B	123	{	
7C	124		vertical slash
7D	125	}	alt mode
7E	126	~	(alt mode)
7F	127	DEL	delete, rubout

Extended Key Code Reference Table

Key	At Scan Code	PS2 Scan Code	3151	Prefix/Suffix Value Hex = Decimal
↑	75H	48H	63H	80H = 128
↓	72H	50H	60H	81H = 129
→	74H	4DH	6AH	82H = 130
←	6BH	4BH	61H	83H = 131
Insert	70H	52H	67H	84H = 132
Delete	71H	53H	64H	85H = 133
Home	6CH	47H	6EH	86H = 134
End	69H	4FH	00H	87H = 135
Page Up	7DH	49H	00H	88H = 136
Page Down	7AH	51H	00H	89H = 137
Right Alt	11H	38H	00H	8AH = 138
Right Ctrl	14H	1DH	39H	8BH = 139
Reserved	00H	00H	00H	8CH = 140
Reserved	00H	00H	00H	8DH = 141
Numeric Keypad Enter	5AH	1CH	79H	8EH = 142
Numeric Keypad/	4AH	35H	00H	8FH = 143
F1	05H	3BH	07H	90H = 144
F2	06H	3CH	0FH	91H = 145
F3	04H	3DH	17H	92H = 146
F4	0CH	3EH	1FH	93H = 147
F5	03H	3FH	27H	94H = 148
F6	0BH	40H	2FH	95H = 149
F7	83H	41H	37H	96H = 150

Key	At Scan Code	PS2 Scan Code	3151	Prefix/Suffix Value Hex = Decimal
F8	0AH	42H	3FH	97H = 151
F9	01H	43H	47H	98H = 152
F10	09H	44H	4FH	99H = 153
F11	78H	57H	56H	9AH = 154
F12	07H	58H	5EH	9BH = 155
Numeric +	79H	4EH	00H	9CH = 156
Numeric -	7BH	4AH	7CH	9DH = 157
Numeric *	7CH	37H	00H	9EH = 158
Caps Lock	58H	3AH	14H	9FH = 159
Num Lock	77H	45H	00H	A0H = 160
Left alt	11H	38H	00H	A1H = 161
Left Ctrl	14H	1DH	11H	A2H = 162
Left Shift	12H	2AH	12H	A3H = 163
Right Shift	59H	36H	59H	A4H = 164
Print Screen	Multiple	00H	00H	A5H = 165
Tab	ODH	OFH	0DH	A6H = 166
Shift Tab	8DH	8FH	65H	A7H = 167
Enter	5AH	1CH	5AH	A8H = 168
ESC	76H	01H	08H	A9H = 169
Left ALT Make	11H	36H	00H	AAH = 170
Left ALT Break	11H	B6H	00H	ABH = 171
Left CTRL Make	14H	1DH	00H	ACH = 172
Left CTRL Break	14H	9DH	00H	ADH = 173
*Left ALT + 1 character	11H	36H	00H	AEH = 174
*Left Ctrl + 1 character	14H	1DH	00H	AFH = 175
*Send			58H	C0H = 192
Clear			6FH	C1H = 193
Jump			76H	C2H = 194
Send Line			7EH	C3H = 195
Erase EOF			6DH	C4H = 196
Send - Make Only			58H	C5H = 197

* Example:

1st Configurable Prefix = 174

2nd Configurable Prefix = 065

Scanner will transmit <left ALT Make> "A" <Left ALT Break>

MS9520 Voyager® and MS9540 VoyagerCG® Series

Activation Range

Use these bar codes to select infrared (IR) sensor activation range for sensing when objects are placed in the scan field.



* Long Range In Stand



Short Range In Stand



* Long Range Out of Stand



Short Range Out of Stand

Stand Scan Modes



Short Scan In Stand – While scanning in the stand, the unit will only accept bar codes within the short IR range.



* Normal Scan In Stand

CodeGate Status

Use the following bar codes to control button functions.

Note: The following functions are not supported by all versions of the MS5145.



CodeGate Active in Stand



* CodeGate Inactive in Stand



* **CodeGate Active Out of Stand**



CodeGate Inactive Out of Stand

Laser/Scan Modes



* **Normal Scan** – The laser turns on after the IR senses a bar code. The laser remains on for approximately 3 to 10 seconds.



Blinky Scan – Laser turns on after the IR senses a bar code. The laser will blink on/off for approximately 60 seconds.



Continuous Blinky Scan – The laser blinks continuously and the IR is inactive. *This feature is not available for the VoyagerPDF series.*



Custom (One Shot) Scan – The laser turns off after a good decode.



Enable Manual Activation Mode – The laser activates when the CodeGate button is pressed.



* **Normal Timeout (Button Act)**



0.5 Second Timeout (Button Act)

Same Symbol Time Outs

If using an MS5145 Eclipse, the MS9524 or MS9544 VoyagerPDF, go to page 7-3.



No Same Symbol Time Out



1000 msec Same Symbol Time Out



* 875 msec Same Symbol Time Out



750 msec Same Symbol Time Out



625 msec Same Symbol Time Out



500 msec Same Symbol Time Out



375 msec Same Symbol Time Out



250 msec Same Symbol Time Out



Infinite Same Symbol Time Out

MS9520-00 and MS9540-00 Laser Emulation Mode

The MS9520-00 and MS9540-00 leave the factory with Laser Emulation interface enabled.

If you recall defaults while re-configuring your scanner, scan the following bar code to re-enable the Laser Emulation interface. The scanner you are using must be labeled as an MS9520-00 or MS9540-00 to support this feature.

Enable HH Laser Emulation



If host controlled laser emulation is required scan the following bar code after scanning the Enable HH Laser Emulation bar code.

Enable Host Controlled Laser Emulation



Normal Laser Emulation Motor Idle State



Reverse Laser Emulation Motor Idle State

MS9524 and MS9544 VoyagerPDF® Series



* Enable PDF



Disable PDF



* Enable Audible Indicator



Disable Audible Indicator

PDF CodeGate Status



Enable PDF CodeGate in Stand



* Disable PDF CodeGate in Stand



Enable PDF CodeGate Out of Stand



* Disable PDF CodeGate Out of Stand

MicroPDF and Composite Code Handling



Enable MicroPDF – Allows composite symbologies to be scanned (PDF 417 is enabled by default).



* Disable MicroPDF



* Enable GS1 DataBar 2D Linkage – Transmits the 1D GS1 DataBar without scanning the 2D portion.



Disable GS1 DataBar 2D Linkage



Enable UPC/EAN Linkage – Link UPC/EAN symbols with a 2D composite constituent then transmit.



* **Disable UPC/EAN Linkage**



* **Enable Code 128 Linkage** – Transmit the 1D Code 128 without scanning the 2D portion.



Disable Code 128 Linkage



* **Enable PDF 1D Linkage** – Transmit the 2D portion of the PDF-417 without scanning the 1D portion.



Disable PDF 1D Linkage



* **Enable UPDF 1D Linkage** – Transmit the 2D portion of microPDF without scanning the 1D portion.



Disable UPDF 1D Linkage



* **Normal Composite Xmit** – Always transmit the 1D and 2D constituent composite components separately.



Xmit Composite Separately – Transmit the 1D and 2D constituent composite components separately.



Enable EAN-128 Emulation – Utilize the UCC/EAN128 protocol for transmission purposes.



* **Disable EAN-128 Emulation**

For Same Symbol Time Out information refer to page 7–3.

MS9535 VoyagerBT®

The MS9535 can act as a client to other devices equipped with *Bluetooth*® wireless technology. If the device's address is a 12-digit hex value that does NOT start with a FNC3 (e.g., 000CA700118) the user must first scan the *Get BT Address* bar code (below), and then scan the device's address bar code.

Get BT Address



Scan the *Provide BT Service* bar code (below) to place the MS9535 into service mode. In this mode, other *Bluetooth* wireless technology enabled devices can initiate a connection to the scanner.

Provide BT Service



BT PIN Required – The MS9535 will require a valid PIN when *Bluetooth* wireless technology enabled devices try to initiate a communication connection.



* **BT Pin Not Required**



BT PIN Default Value – The default PIN ID will be the last 4 digits of the serial number.



Next Bar Code is BT Pin ID – When scanned this feature enables the scanner to store the next scanned bar code as the PIN ID. The PIN ID must be numeric and be 4 to 16 characters in length.

The BT PIN Required bar code (shown above) must also be scanned to utilize the PIN ID.



Enable BT Address Transmission



Enable BT Software Version Transmission



Sleep in 1 Minute – The scanner will go into sleep (power save) mode after the laser has been off for 1 minute.



Sleep in 2 Minutes – The scanner will go into sleep mode after the laser has been off for 2 minutes.



Sleep in 5 Minutes – The scanner will go into sleep mode after the laser has been off for 5 minutes.



Sleep in 10 Minutes – The scanner will go into sleep mode after the laser has been off for 10 minutes.



* **Enable Scanning in Cradle**



Disable Scanning in Cradle



Enable In Stand Error Audio Indicator – Activates an audible indicator the when the scanner is in the stand/charging cradle but is not making contact via the battery terminal contacts.



* **Disable In Stand Error Indicator**



* **Enable Cradle LED**



Disable Cradle LED



Enable Range Gate – Store scanned bar codes into RAM if the wireless connection has been interrupted.



* **Disable Range Gate**



Enable BT Test – The cradle will display certain connection information (KO, OK, etc.).
Note: Do not enable this feature unless instructed to by a Honeywell representative.



* **Disable BT Test**

MS9535-5M VoyagerBT



Enable Inventory Mode – Bar code data that is scanned is stored in the scanner's expanded memory base. The data will be transmitted when the scanner is placed back into its BT cradle.

Note: A special beep will sound when a bar code is scanned but not stored due to a full a memory base. The scanner must be placed in the BT cradle to empty the memory.



* **Disable Inventory Mode**



* **Auto Cradle Transmit** – All bar code data is automatically transmitted when the scanner is placed into the BT cradle.



No Cradle Transmit – The scanner will **not** automatically transmit bar code data when placed in the BT cradle.



* **Transmit Inventory FIFO** – Data is transmitted on a first-in, first-out basis.



Transmit Inventory LIFO – Data is transmitted on a last-in, first-out basis.



Enable Inventory Beep – A beep will sound as each bar code is transmitted. A special audible indicator will sound on completion of data transfer.



* **Disable Inventory Beep**



* **No Transmit/Entry Counter**



Transmit/Entry Counter – Optional field transmitted with the bar code data that is a count of the number of transmissions used to transmit the entire buffer.



Clear Inventory Records – Will clear all stored bar code data in memory.



Enable Auto Clear Records – Will automatically clear the stored records in the inventory buffer after transmission of the records stored.



* **Maintain Records**



Delete Last Record – Deletes the last bar code stored.. When the *Transmit Quantity Field* has been enabled, each scanned quantity code is a unique field. If the *delete last record* bar code is scanned, it will remove the last quantity code scanned.

Example:

If a quantity of 103 (Quantity 1, Quantity 0, and Quantity 3) was scanned but a quantity of 10 was desired.

1. Scan the *delete last record* bar code.
2. The **Quantity 3** code will be deleted and a quantity of **10** will be stored.



Transmit All Records – Transmits all stored data records.



Transmit Record Counters – Will transmit the number of records and the number of bar codes currently stored as a 5-digit number separated by a space.



Transmit Quantity Field – Adds an additional quantity field for the last item (bar code) scanned. Once enabled the user is able to enter a numerical quantity from 1 to 9999 for the last item (bar code) scanned (see Inventory Quantity Bar Codes, on page 20–3).



* **Don't Transmit Quantity Field**

Inventory Quantity Bar Codes**

The following inventory quantity bar codes will enable the user to enter a quantity from 1 to 9999 for the last item (bar code) scanned. The item's bar code data will be retransmitted as many times as the quantity indicates.

Example:

- 1. Scan the item's bar code (ie. ABCD)
- 2. Scan the **Quantity 1** bar code
- 3. Scan the **Quantity 0** bar code
- 4. The ABCD bar code will be transmitted **10** times



Quantity 0



Quantity 1



Quantity 2



Quantity 3



Quantity 4



Quantity 5



Quantity 6



Quantity 7



Quantity 8



Quantity 9

** Transmit Quantity Field must be enabled (on page 20-2) for this feature.

IS4125 and IS4225 Scan Engines



Disable Old Serial Program



Enable Old Serial Program



Enable TTL UART



Enable Non Buffered TTL UART



Enable Detect and Notify Mode



Cunningham Defaults – Scan this code followed by *Recall Defaults* code to enable and load Cunningham defaults.



Recall Defaults

For Same Symbol Time Out information, see page 7–3.

IS4823 and IS4825 Scan Engines

Operating Modes

Activation Modes



* **Activate Scanning with the External Trigger** – An external I/O pin is used to enable the scanning cycle. A High-to-Low transition on the I/O signal is used to activate scanning. The signal must be deactivated (HIGH) and re-activated for subsequent scanning cycles. The scanning cycle is terminated based on the default period of time (2 seconds), a variable period of time, when the I/O signal is deactivated (Low-to-High), or when a bar code is scanned and transmitted.



Activate Scanning on Receipt of the <DC2> Character – A received <DC2> character initiates the scanning cycle. The scanning cycle is terminated based on the default period of time (2 seconds), variable laser timeout selected, or when a bar code is scanned and transmitted.



Activate Scanning Using D/E – A received 'E' character initiates the scanning cycle. The scanning cycle is terminated based on the default period of time (2 seconds), variable laser timeout selected, or receipt of a 'D' or when a bar code is scanned and transmitted.



Activate Scanning with Address – A configurable address character is used to initiate scanning. The scanning cycle is terminated based on the default period of time (2 seconds), variable laser timeout selected, or when a bar code is scanned and transmitted.



~ **Address Value** – Use this bar code with a code byte sequence (on page 16–1) that represents the desired character to be used to initiate scanning. An ASCII reference table is available on page 16–3.

Activation Mode Features



~ **Variable Laser-On Time Out** – Scan this bar code with a code byte sequence (on page 16–1) that represents the desired time out increment. The configurable time increment (1-second increments) selected is the scanning laser-on time.



Allow Full Laser-On Cycle – The laser stays on for a full cycle even when a bar code is scanned and transmitted.



Blinky Mode – The laser turns on after the selected activation trigger is detected. The laser will blink on/off for approximately 30 seconds.



Transmit a NO READ Message on Laser Time Out – If the scanning cycle terminates without scanning a bar code during the cycle, a NO READ message is transmitted with the termination of the scanning cycle.



Do Not Transmit a NO READ Message on Laser Time Out



Activate the LED during the NO READ Transmission – The LED is output with the NO READ message.



Deactivate LED during the NO READ Transmission



Enable RTS No Read Pulse – A configurable RTS pulse width transmitted after the NO READ message has been transmitted.



Disable RTS No Read Pulse



Detect and Notify Mode (Monitor the External Trigger) – The external I/O pin used in the default activation mode is monitored during the inactive laser cycles. An <SI> is transmitted when the I/O is active and an <SO> when it is inactive. Once the scanning activation cycle is started, the external I/O monitoring status is maintained until the scanning cycle is terminated regardless of the actual I/O level.

Continuous Blinky Mode



Continuous Blinky Mode – The scanner will continuously blink on and off, turning the scanning cycle on and off for all normal scanner operations. If a bar code is scanned and transmitted, the same symbol timeout is maintained throughout the cycle preventing additional scans of the same bar code when the scanner is in default mode.

Sleep Mode



~ **Sleep Mode** – A power saving mode that can be configured to occur in 1-second increments. Use this code with a code byte sequence (on page 16–1) that represents the desired increment.

Miscellaneous Features

Custom Defaults

Honeywell manufactures several scanners for OEM applications. These scanners may use a different set of defaults than Honeywell factory defaults. Scanning the bar code will reset the default table to Honeywell defaults.



Enable Factory Defaults – Scan this code followed by *Recall Defaults* code to enable and load Honeywell factory defaults.



Recall Defaults



Ruby Verifone Defaults – Scan this code followed by *Recall Defaults* code to enable and load Ruby Verifone defaults.



RCH – Scan this code followed by *Recall Defaults* code to enable and load RCH defaults.



Sanyo – Scan this code followed by *Recall Defaults* code to enable and load Sanyo defaults.



Gilbarco – Scan this code followed by *Recall Defaults* code to enable and load Gilbarco defaults.



ALT Defaults – Scan this code followed by *Recall Defaults* code to enable and load Alt defaults.



LaCaixa Custom Keyboard Defaults – Scan this code followed by *Recall Defaults* code to enable and load LaCaixa defaults.



ABACAB Defaults – Scan this code followed by *Recall Defaults* code to enable and load ABACAB defaults.

Serial Program Mode

For Serial Program Mode, all commands must be framed by an STX (02 Hex) and ETX (03 Hex).

To recall defaults:

1. Transmit <STX>999999<ETX> through the Serial Port. This will put the scanner in serial program mode. Scanning will be suspended and the scanner will respond with an ACK (06 Hex).
2. Transmit <STX>999998<ETX> through the Serial Port. This is the Recall Defaults bar code in the MetroSelect guide. The scanner will respond with an ACK (06 Hex).
3. Transmit <STX>999999<ETX> through the Serial Port. This will cause the scanner to exit program mode and save the new settings. The scanner will beep 3 times and send an ACK (06 Hex).

If at anytime, the scanner cannot recognize a command, it will respond with a NAK (15 Hex).

Customer Support

Technical Assistance

If you need assistance installing or troubleshooting your device, please call your distributor or the nearest technical support office:

North America/Canada

Telephone: (800) 782-4263

E-mail: hsmnasupport@honeywell.com

Latin America

Telephone: (803) 835-8000

Telephone: (800) 782-4263

E-mail: hsmilasupport@honeywell.com

Brazil

Telephone: +55 (11) 5185-8222

Fax: +55 (11) 5185-8225

E-mail: brsuporte@honeywell.com

Mexico

Telephone: 01-800-HONEYWELL (01-800-466-3993)

E-mail: soporte.hsm@honeywell.com

Europe, Middle East, and Africa

Telephone: +31 (0) 40 7999 393

Fax: +31 (0) 40 2425 672

E-mail: hsmeurosupport@honeywell.com

Hong Kong

Telephone: +852-29536436

Fax: +852-2511-3557

E-mail: aptechsupport@honeywell.com

Singapore

Telephone: +65-6842-7155

Fax: +65-6842-7166

E-mail: aptechsupport@honeywell.com

China

Telephone: +86 800 828 2803

Fax: +86-512-6762-2560

E-mail: aptechsupport@honeywell.com

Japan

Telephone: +81-3-3839-8511

Fax: +81-3-3839-8519

E-mail: aptechsupport@honeywell.com

Online Technical Assistance

You can also access technical assistance online at www.honeywellaidc.com.

Product Service and Repair

Honeywell International Inc. provides service for all its products through service centers throughout the world. To obtain warranty or non-warranty service, contact the appropriate location below to obtain a Return Material Authorization number (RMA #) before returning the product.

North America

Telephone: (800) 782-4263

E-mail: hsmnaservice@honeywell.com

Latin America

Telephone: (803) 835-8000

Telephone: (800) 782-4263

Fax: (239) 263-9689

E-mail: laservice@honeywell.com

Brazil

Telephone: +55 (11) 5185-8222

Fax: +55 (11) 5185-8225

E-mail: brservice@honeywell.com

Mexico

Telephone: 01-800-HONEYWELL (01-800-466-3993)

Fax: +52 (55) 5531-3672

E-mail: mxservice@honeywell.com

Europe, Middle East, and Africa

Telephone: +31 (0) 40 2901 633

Fax: +31 (0) 40 2901 631

E-mail: euroservice@honeywell.com

Hong Kong

Telephone: +852-29536436

Fax: +852-2511-3557

E-mail: apservice@honeywell.com

Singapore

Telephone: +65-6842-7155

Fax: +65-6842-7166

E-mail: apservice@honeywell.com

China

Telephone: +86 800 828 2803

Fax: +86-512-6762-2560

E-mail: apservice@honeywell.com

Japan

Telephone: +81-3-3839-8511

Fax: +81-3-3839-8519

E-mail: apservice@honeywell.com

Online Product Service and Repair Assistance

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Honeywell Scanning & Mobility

9680 Old Bailes Road

Fort Mill, SC 29707

www.honeywellaidc.com



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