METROLOGIC INSTRUMENTS, INC.

MetroSelect®
Configuration Guide

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INTRODUCTION

Your new scanner has been configured at the factory with a set of default communication protocols. Since many host systems have unique formats and protocol requirements, Metrologic provides a wide range of configurable features that may be selected with the use of this bar code configuration guide.

Once the configuration is completed, the scanner stores the settings in nonvolatile memory or NOVRAM. NOVRAM saves the settings when the power is turned off.

Symbol Key	
* (asterisk)	Default Feature
~ (tilde)	Feature requires the *Multi-Code* Configuration Method, *see Bar Code Configuration Methods on page x.*
	Important!
	Note

BAR CODE CONFIGURATION METHODS

Metrologic scanners can be bar code configured in two ways: the *Single-Code Method* and the M*ulti-Code Method*.

Single-Code **Method**

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

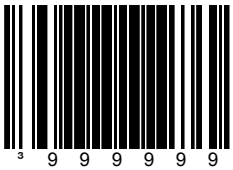
1. Power up the scanner.
2. Scan the bar code(s) for the desired feature(s).
3. Observe a multi-toned, "save setting" beep that indicates the configuration has been saved to NOVRAM.

Multi-Code **Method**

All features can be enabled or disabled using the Multi-Code Method.
A feature marked with a "~" 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(s) for the desired feature(s). [1 beep]
4. Scan the *Enter/Exit Configuration Mode* bar code [3 beeps] and save new configuration.

Enter/Exit Configuration Mode



To abort a configuration change, power off the scanner before scanning the *Enter/Exit Configuration Mode* bar code.

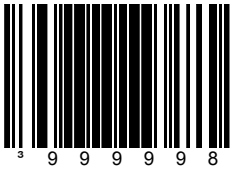
NEED TO START OVER?

Scan the Recall Default bar code. This will erase all previous settings and return to the scanner's default communications protocol.

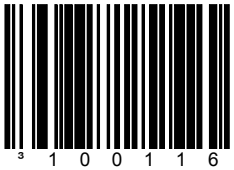
- Keyboard Wedge interface scanners will load keyboard wedge defaults.
- All other scanners will load RS-232 defaults.

Metrologic manufactures custom OEM scanners, which load the OEM's defaults. For further information on the affects they have on Metrologic default communications protocols refer to Section N, Custom Defaults.

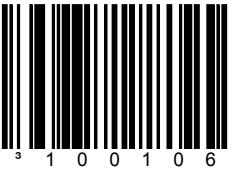
Recall Defaults



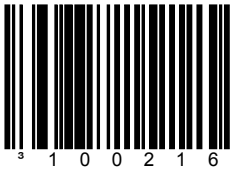
* Enable UPC/EAN



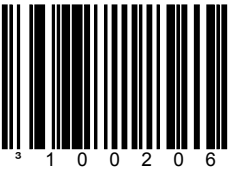
Disable UPC/EAN



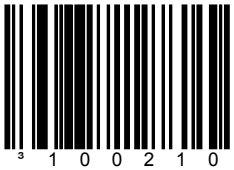
* Enable UPC-A



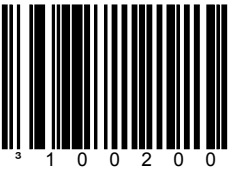
Disable UPC-A



* Enable UPC-E

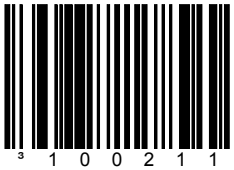


Disable UPC-E

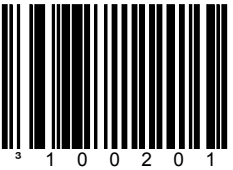


SECTION A **UPC/EAN**

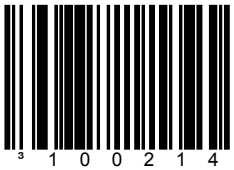
* Enable EAN-13



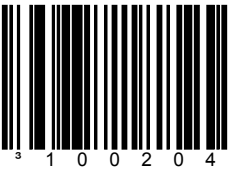
Disable EAN-13



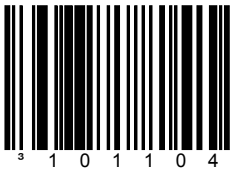
* Enable EAN-8



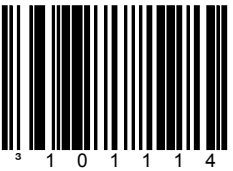
Disable EAN-8



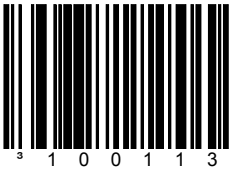
* Enable
Auto Redundancy UPC-E



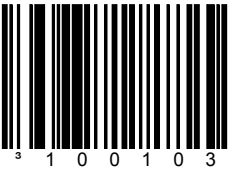
Disable
Auto Redundancy UPC-E



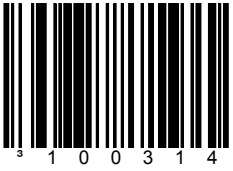
* Enable Code 128



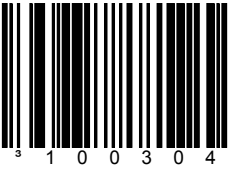
Disable Code 128



Enable
UCC/EAN-28
']C1' Code Formatting



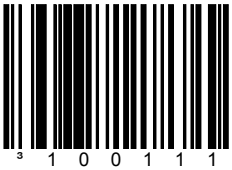
Disable
UCC/EAN-128
']C1' Code Formatting



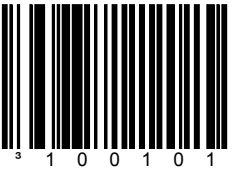
For Coupon Code 128, see Section B, page 5.

SECTION A — CODE 39

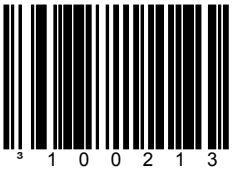
* Enable Code 39



Disable Code 39

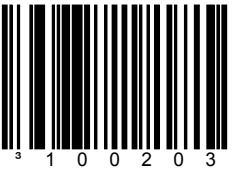


Enable MOD 43 Check on Code 39



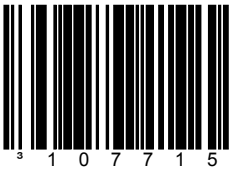
The scanner will only scan Code 39 bar codes that have a valid Modulo 43 check digit.

* Disable MOD 43 Check on Code 39



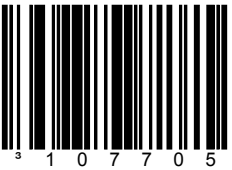
The scanner will not test Code 39 bar codes for a modulo 43 check digit.

Transmit Mode 43 Check Digit on Code 39



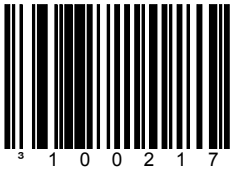
This feature works in conjunction with Mode 43 Check on Code 39. Both options must be enabled for this feature to work.

* Do Not Transmit Mode 43 Check Digit on Code 39

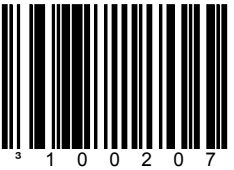


This option will not transmit Code 39's Mod 43 check character.

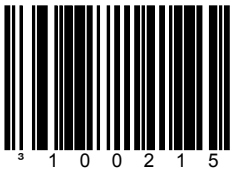
Enable Full ASCII Code 39



* Disable Full ASCII Code 39

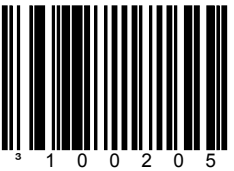


Enable PARAF Support
(Italian Pharmaceutical Codes)



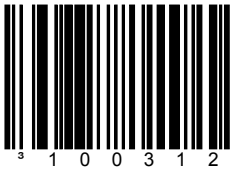
The scanner will convert Code 39 bar codes to PARAF format.

* Disable PARAF Support

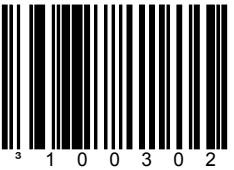


The scanner will not convert code 39 bar codes to PARAF format.

Enable TRI-OPTIC Code

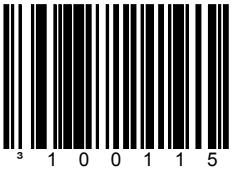


* Disable TRI-OPTIC Code

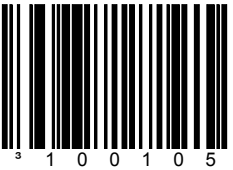


SECTION A — INTERLEAVED 2 OF 5

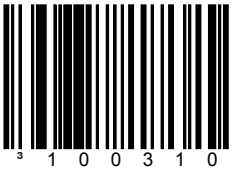
* Enable Interleaved 2 of 5 (ITF)



Disable Interleaved 2 of 5 (ITF)

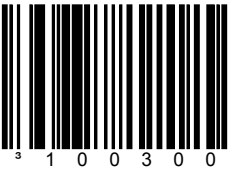


Enable MOD 10 Check on ITF



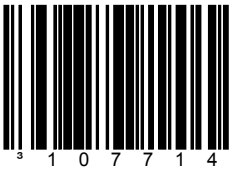
The scanner will only scan Interleaved 2 of 5 (ITF) Bar codes that have a Modulo 10 check digit.

* Disable MOD 10 Check on ITF



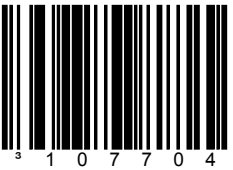
The scanner will not test Interleaved 2 of 5 (ITF) bar codes for a Modulo 10 check digit.

Transmit MOD 10 Check Digit on ITF



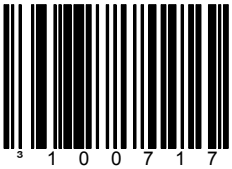
The scanner transmits Interleaved 2 of 5 (ITF) MOD 10 check character.

* Do Not Transmit MOD 10 Check Digit on ITF

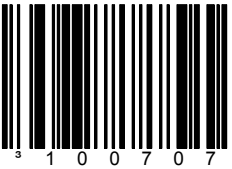


The scanner will not transmit Interleaved 2 of 5 (ITF) MOD 10 check digit characters. This feature works in conjunction with Mod 10 Check on ITF. Both must be enabled for this feature to work.

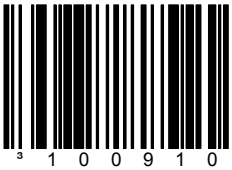
Enable ALT
Check Digit ITF



* Disable ALT
Check Digit ITF

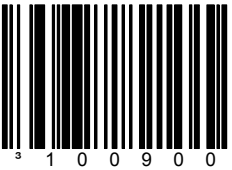


Enable 12 Digit ITF
Check Digit at 1

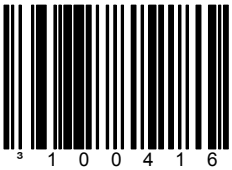


This feature requires *MOD 10 ITF Check Digit* to be enabled. The 12-character ITF check digit calculation will start with 1 instead of 0.

* Normal Check Digit



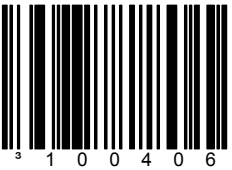
Enable ITF/Code 39 Filter



Supports Code 39/ITF filters.

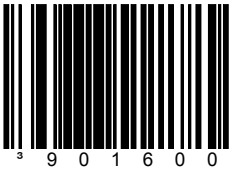
This feature may adversely affect reading Codabar, Code 93 and some other non-standard symbologies.

* Disable ITF/Code 39
Filter



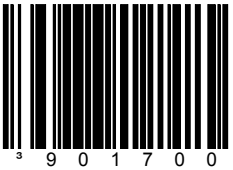
SECTION A — INTERLEAVED 2 OF 5

~ ITF Symbol Length Lock 1 †



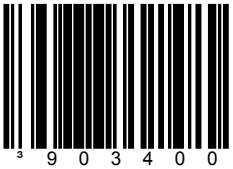
To specify a 1st ITF symbol length lock, scan the above bar code and the appropriate code bytes located in Section M. †

~ ITF Symbol Length Lock 2 †



To specify a 2nd ITF symbol length lock, scan the above bar code and the appropriate code bytes located in Section M. †

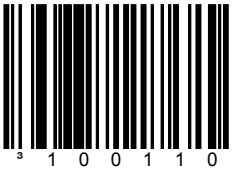
~ ITF Minimum Symbol Length †



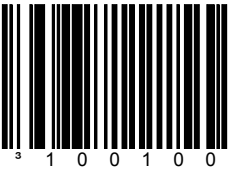
To specify a minimum number of ITF characters to be decoded, scan the above bar code and the appropriate code bytes located in Section M.†

† *Refer to the Multi-Code Configuration Method on page x.*

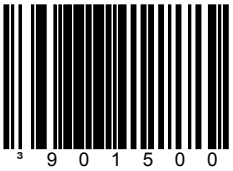
Enable
Standard 2 of 5



* Disable
Standard 2 of 5



~ Standard 2 of 5
Symbol Length Lock

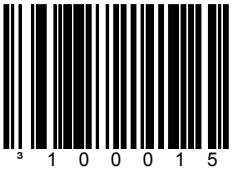


To specify a minimum number of ITF characters to be decoded, scan the above bar code and the appropriate code bytes located in Section M.†

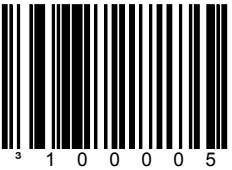
† *Refer to the Multi-Code configuration method on page x.*

SECTION A — OTHER 2 OF 5 CODES

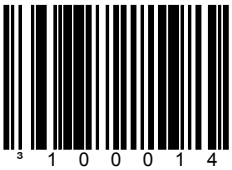
Enable Matrix 2 of 5



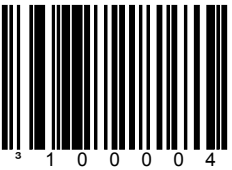
* Disable Matrix 2 of 5



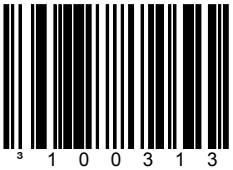
Enable 15 Digit Airline 2 of 5



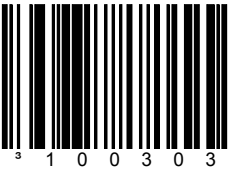
* Disable 15 Digit Airline 2 of 5



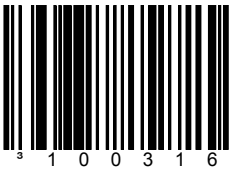
Enable 13 Digit
Airline 2 of 5



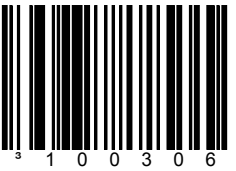
* Disable 13 Digit
Airline 2 of 5



Enable Hong Kong
2 of 5

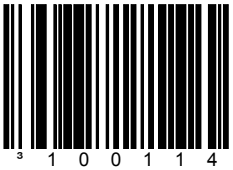


* Disable Hong Kong
2 of 5

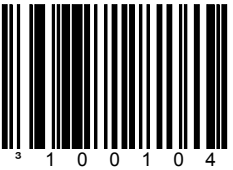


SECTION A **CODABAR**

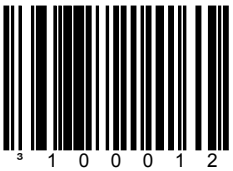
* Enable Codabar



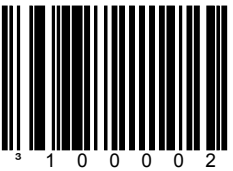
* Disable Codabar



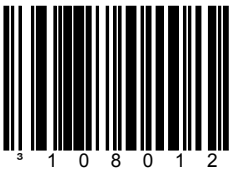
Enable
Dual Field Codabar



* Disable
Dual Field Codabar

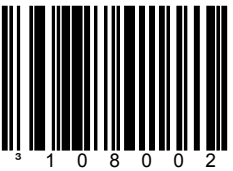


Enable
Tab in Dual Codabar

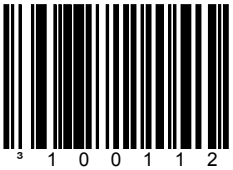


This feature requires *Dual Field Codabar* to be enabled. The scanner will insert a tab between the fields of the dual field Codabar.

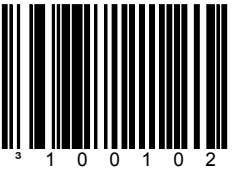
* Disable
Tab in Dual Codabar



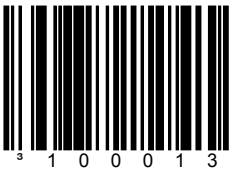
* Enable Code 93



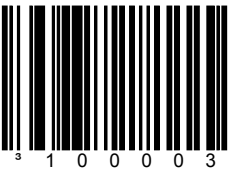
Disable Code 93



Enable Code 11

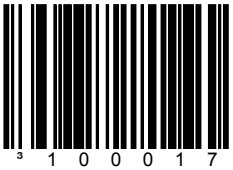


* Disable Code 11

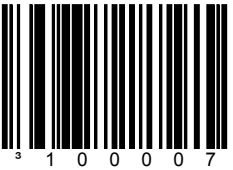


SECTION A **TELEPEN**

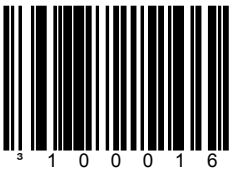
Enable Telepen



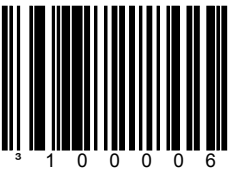
* Disable Telepen



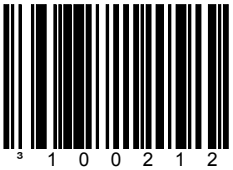
Enable
ALPHA Telepen



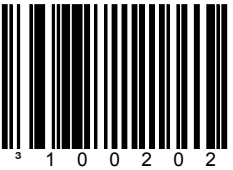
* Disable
ALPHA Telepen



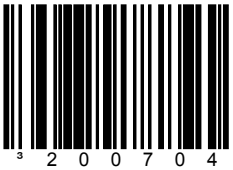
Enable MSI Plessey



* Disable MSI Plessey

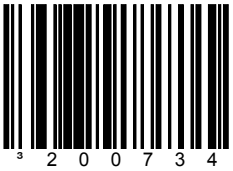


* No MSI Plessey Check Digit



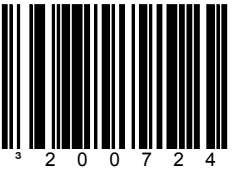
The scanner will not test MSI Plessey bar codes for a check digit.

Enable MSI Plessey MOD 10/10 Check Digit



The scanner will test MSI Plessey bar codes for a double Modulo 10 check digit.

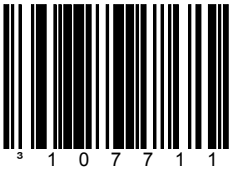
* Enable MSI Plessey MOD 10 Check Digit



The scanner will test MSI Plessey bar codes for a single Modulo 10 check digit.

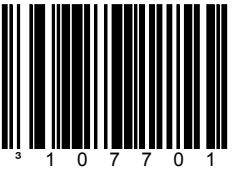
SECTION A — PLESSEY CODES

Transmit
MSI Plessey Check Digit



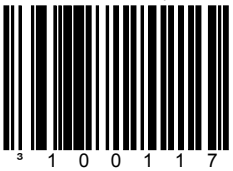
This option works in conjunction with one or both of the Enabled MSI Plessey Mode options.

* Do Not Transmit
MSI Plessey Check Digit

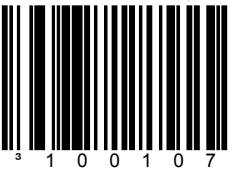


The scanner will not transmit MSI Plessey check digit characters.

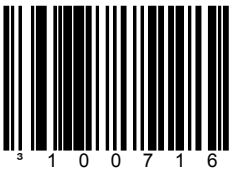
Enable UK Plessey



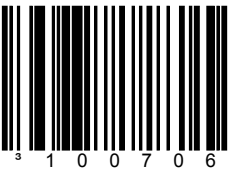
* Disable UK Plessey



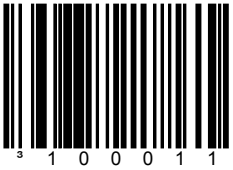
Enable UK Plessey
A to X Conversion



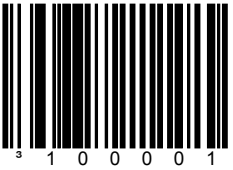
* Disable UK Plessey
A to X Conversion



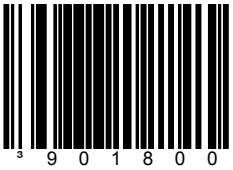
Enable Double Border Required/Large Inter-Character Space



* Disable Double Border Required/Large Inter-Character Space

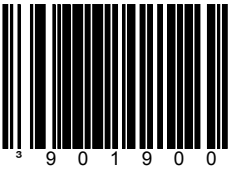


~ Minimum Symbol Length †



Omnidirectional default is 4. Combine this code with the proper Code Bytes, to specify the minimum number of characters in all non-UPC/EAN bar codes.†

~ Symbol Length Lock †



This code combined with the proper Code Bytes, locks the bar code's length into place.†

† *Refer to the Multi-Code Configuration Method on page x.*

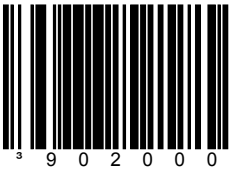
SECTION A **CONFIGURABLE CODE LENGTHS**

There are seven bar code lock lengths available. Specific code types can be assigned to a lock length using the *Multi-Code* configuration method.

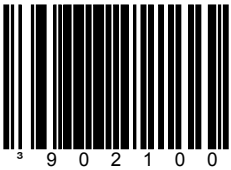
Example:

1. Scan the enter/exit configuration bar code.
2. Scan the *code length lock #1* bar code.
3. Scan the three Code Bytes that represent the code length.
4. Scan the matching code type lock #1 bar code.
5. Scan the three code bytes that represent the code type.
   Refer to the *Code Type Table* in Section M.
6. Repeat steps 2 through 5 for lock lengths 2 through 7 if desired.
7. Scan the enter/exit configuration bar code when finished to save settings.

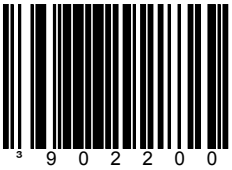
~ Code Length
Lock #1



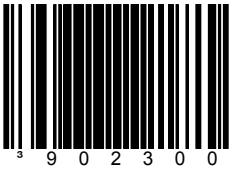
~ Code Type
Lock #1



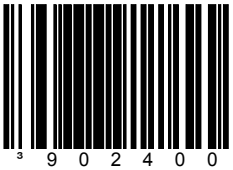
~ Code Length
Lock #2



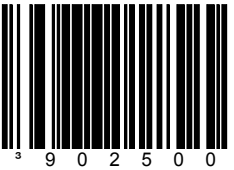
~ Code Type
Lock #2



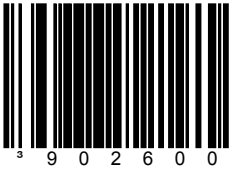
~ Code Length
Lock #3



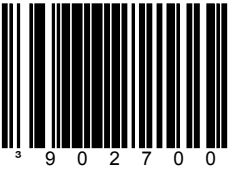
~ Code Type
Lock #3



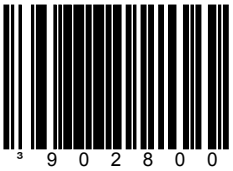
~ Code Length
Lock #4



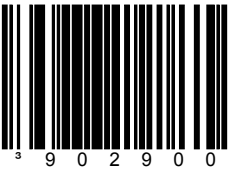
~ Code Type
Lock #4



~ Code Length
Lock #5

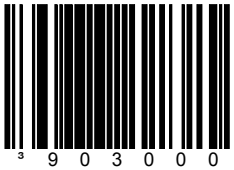


~ Code Type
Lock #5

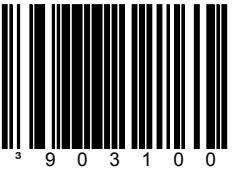


SECTION A **CONFIGURABLE CODE LENGTHS**

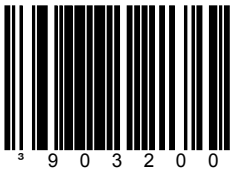
~ Code Length
Lock #6



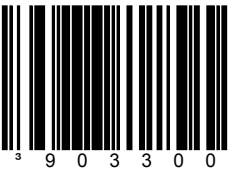
~ Code Type
Lock #6



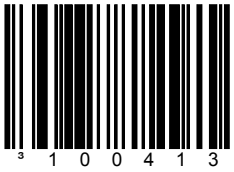
~ Code Length
Lock #7



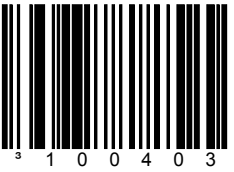
~ Code Type
Lock #7



Enable RSS 14

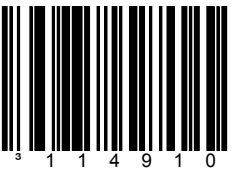


* Disable RSS 14



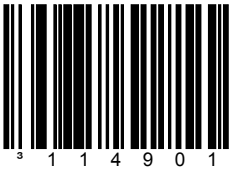
* Transmit
RSS 14 Check Digit

Do Not Transmit
RSS 14 Check Digit



SECTION A **RSS 14 FEATURES**

* Transmit
RSS 14 Application ID



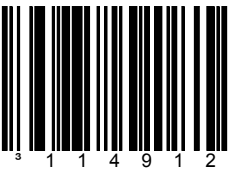
Application identifier “01” is transmitted by default.

Do Not Transmit
RSS 14 Application ID

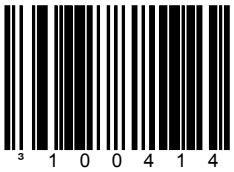
* Transmit
RSS 14 Symbology ID

Symbology identifier “]e0” is transmitted by default.

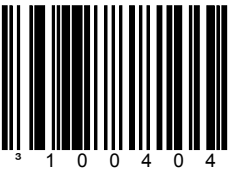
Do Not Transmit
RSS 14 Symbology ID



Enable RSS Limited

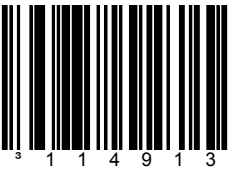


* Disable RSS Limited



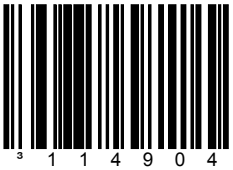
* Transmit
RSS Limited Check Digit

Do Not Transmit
RSS Limited Check Digit



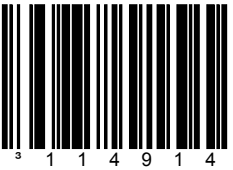
SECTION A **RSS LIMITED FEATURES**

* Transmit RSS Limited Application ID

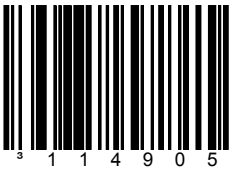


Application identifier “01” is transmitted by default.

Do Not Transmit RSS Limited Application ID

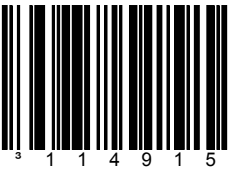


* Transmit RSS Limited Symbology ID

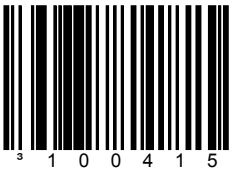


Symbology identifier “]e0” is transmitted by default.

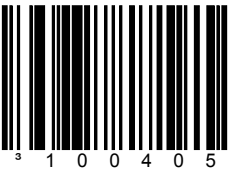
Do Not Transmit RSS Limited Symbology ID



Enable RSS Expanded



* Disable RSS Expanded

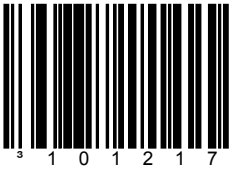


* Transmit RSS Expanded Symbology ID

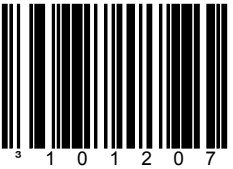
Symbology identifier "]e0" is transmitted by default.

Do Not Transmit RSS Expanded Symbology ID

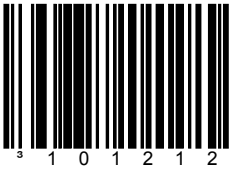
Enable Two Digit Supplements



* Disable Two Digit Supplements

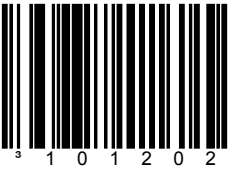


* Enable Two Digit Redundancy



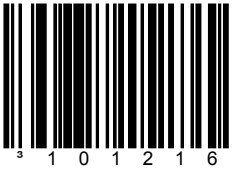
Twice before accepting data, the scanner will scan the bar code plus the two digit add on.

Disable Two Digit Redundancy

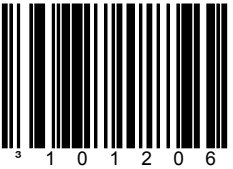


When scanned, will not implement the two digit redundancy feature.

Enable Five Digit Supplements

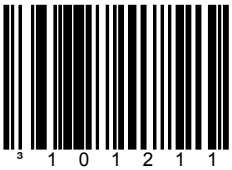


* Disable Five Digit Supplements



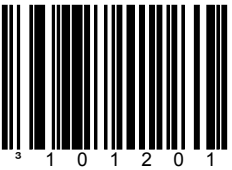
SECTION B **SUPPLEMENTS/REDUNDANCY**

Enable Five Digit Redundancy



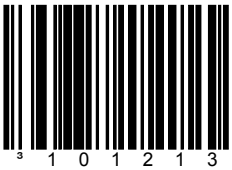
Twice before accepting data, the scanner will scan the bar code plus the five digit add on.

* Disable Five Digit Redundancy



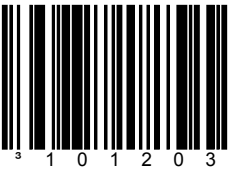
The scanner will not implement the five digit redundancy feature.

Supplements are Required



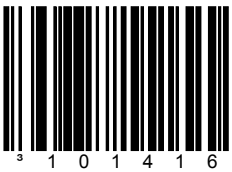
All UPC/EAN labels that are scanned must have a supplement.

* Supplements are not Required

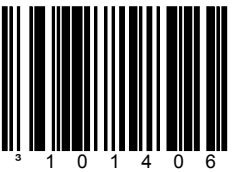


UPC/EAN labels do not require a supplement to be scanned.

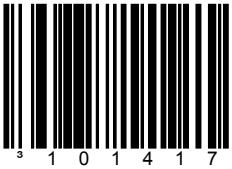
Enable Remote Supplemental Requirement



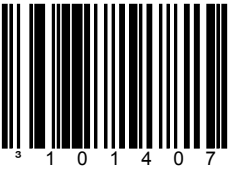
* Disable Remote Supplemental Requirement



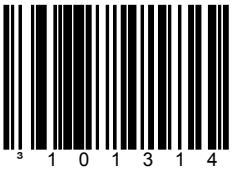
Enable Bookland (978) Supplement Requirement



* Disable Bookland (978) Supplement Requirement

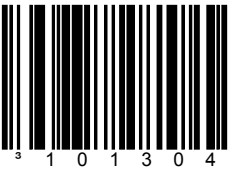


Enable 977 (2 digit) Supplemental Requirement



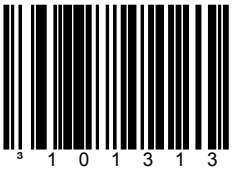
The scanner will require a 2 digit supplement be scanned when an EAN-13 code begins with 977.

* Disable 977 (2 digit) Supplemental Requirement

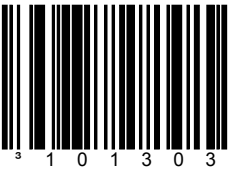


The scanner will not require a 2 digit supplement be scanned whenever an EAN-13 code begins with 977.

Enable 378/379 French Supplement Requirement

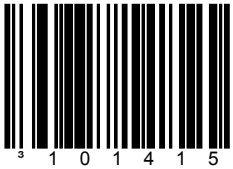


* Disable 378/379 French Supplemental Requirement

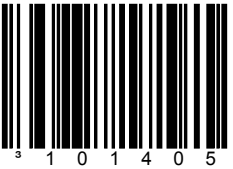


SECTION B **SUPPLEMENTS**

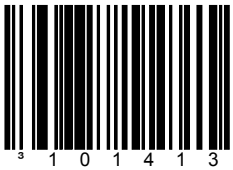
Enable 434/439 German Supplemental Requirement



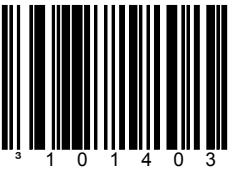
* Disable 434/439 German Supplemental Requirement



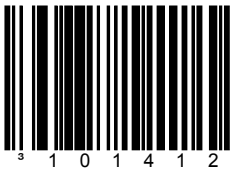
Enable 414/419 German Supplemental Requirement



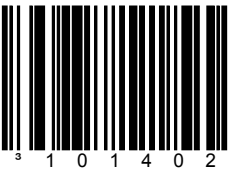
* Disable 414/419 German Supplemental Requirement



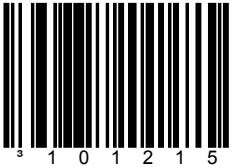
Enable # System 2 Requires Supplements



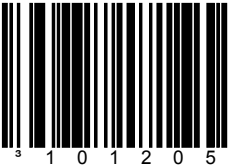
* Disable # System 2 Requires Supplements



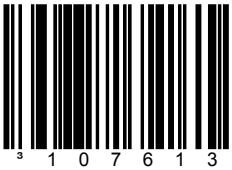
Enable # System 5 Requires Supplements



* Disable # System 5 Requires Supplements



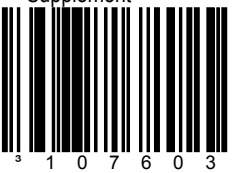
Enable 8711685 Requires 5-Digit Supplement



The scanner will require a 5-digit supplement to be scanned when an EAN-13 code begins with 8711685.

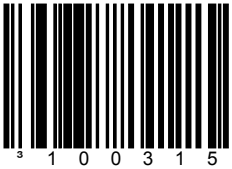
This feature is not available with all models.

* Disable 8711685 Requires 5-Digit Supplement

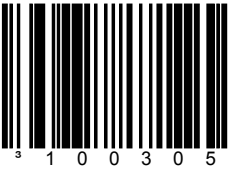


The scanner will not require a 5-digit supplement to be scanned when an EAN-13 code begins with 8711685.

Enable Coupon Code 128

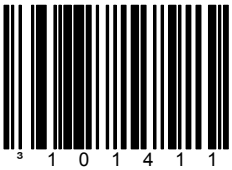


* Disable Coupon Code 128



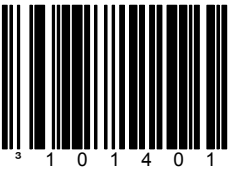
SECTION B **SUPPLEMENTS**

Enable Code 128 ']C1' Extended Code Format



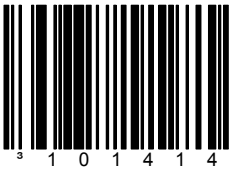
The scanner will transmit a ']C1' at the beginning of the code 128 portion of the coupon code.

* Disable Code 128 ']C1' Extended Code Format



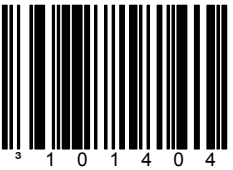
The scanner will not transmit a ']C1' at the beginning of the code 128 portion of the coupon code.

Enable 128 Group Separators



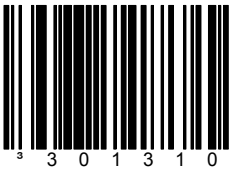
"GS" (1DH) character will be transmitted with coupon Code 128 codes.

* Disable 128 Group Separators



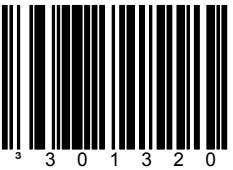
"GS" (1DH) character will not be transmitted with coupon Code 128 codes.

* 100 msec to Find Supplemental



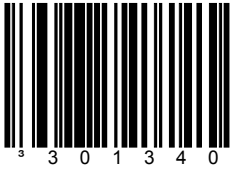
The scanner will allot 100 milliseconds to "find" an add on after a main UPC/EAN bar code has been scanned.

200 msec to Find Supplemental



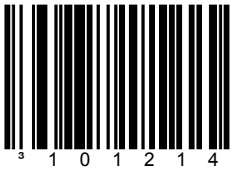
The scanner will allot 200 milliseconds to "find" an add on after a main UPC/EAN bar code has been scanned.

400 msec to Find Supplemental

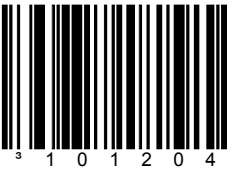


The scanner will allot 400 milliseconds to “find” an add on after a main UPC/EAN bar code has been scanned.

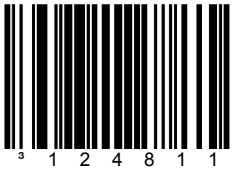
Enable Code ID’s with Supplements



* Disable Code ID’s with Supplements

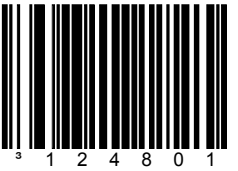


Allow 2/5 on 977 Bar Code



This feature allows either 2 or 5 digit supplements if 977 mode is active.

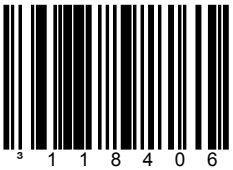
Allow 2 on 977 Bar Code



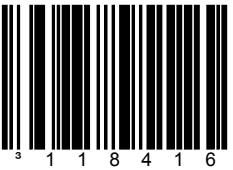
This feature allows 2 digit supplements if 977 mode is active.

SECTION B **SUPPLEMENTS**

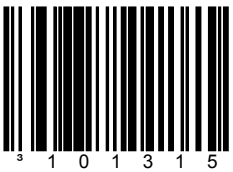
* Beep Once on Supplements



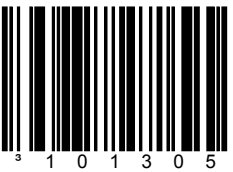
Beep twice on Supplements



Enable ISBN Check Digit Transmission

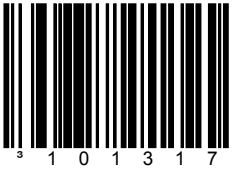


Disable ISBN Check Digit Transmission



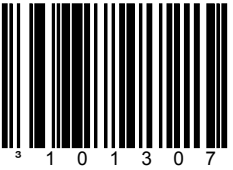
This feature is not available with all models.

Enable Bookland to ISBN Conversion

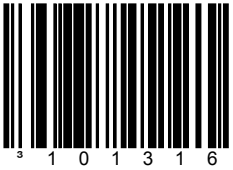


This feature is not available with all models.

* Disable Bookland to ISBN Conversion

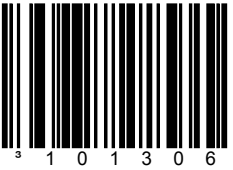


Enable ISBN Re-Formatting



This feature is not available with all models.

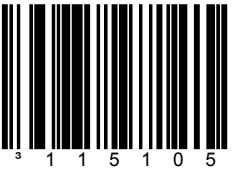
* Disable ISBN Re-Formatting



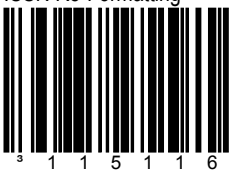
SECTION B **SUPPLEMENTS**

Enable ISSN Check Digit Transmission

* Disable ISSN Check Digit Transmission



Enable ISSN Re-Formatting



Transmit a hyphen with the barcode.

* Disable ISSN Re-Formatting

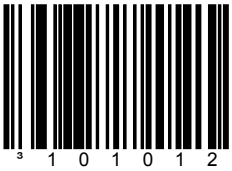
Enable 977 to ISSN Conversion

Convert 977 periodicals to ISSN format.

* Disable 977 to ISSN Conversion

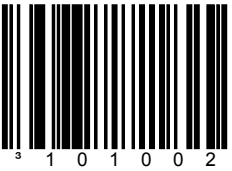
Do not convert 977 periodicals to ISSN format.

Enable Number System 4 Coupon Code 128

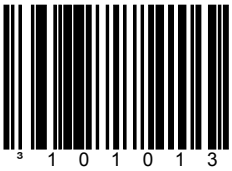


Supports Coupon Code 128 for Number System 4 bar codes.

* Disable Number System 4 Coupon Code 9128

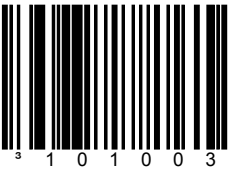


Enable UPC Discard

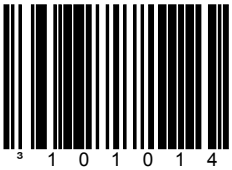


Supports UPC discard if the Code 128 portion of the Coupon Code 128 is scanned.

* Disable UPC Discard

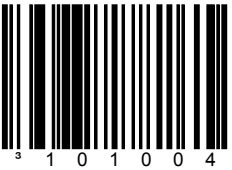


Allow Supplements and UPC in Same Line



This feature requires 2 digit supplements be enabled as well as required redundancy and supplements.

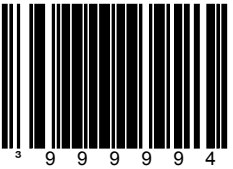
Disable Supplements and UPC in Same Line



* Enable RS-232

The scanner will work with RS-232 ±12V serial output.

Load Keyboard Wedge Defaults



Scan this before selecting Normal or Stand Alone Mode.

Enable Light Pen/Wand Communication

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

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.

Enable Stand-Alone Keyboard Scanner

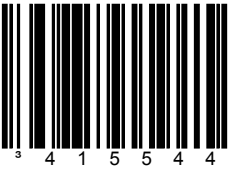
Allows the scanner to be used without an external keyboard.

SECTION C **COMMUNICATIONS**

Load OCIA Defaults

Scan this before selecting Enable OCIA output.

Enable OCIA Output



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

Load
IBM 46xx Defaults

Scan this before selecting Enable IBM 46xx Communication

Enable IBM 46xx
Communication

Select this option for IBM 46xx SIOC/RS485 communications.

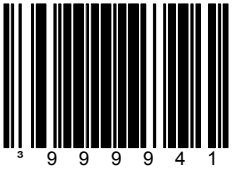
Not all scanners support this interface. The correct interface board is required.

Load Low Speed
External USB Defaults †

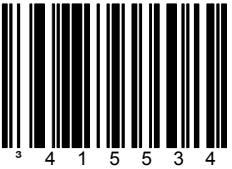
† *Refer to Section P for full speed USB options.*

Enable
Low Speed USB †

Load Low Speed
Internal USB Defaults †



Enable
No Communication Mode

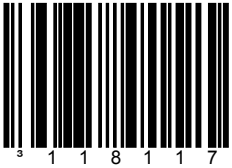


Select this option if the scanner **does not** interface with the host device.

Reserved

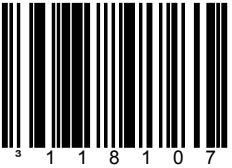
Reserved

Allow Configuration Mode on Power-Up



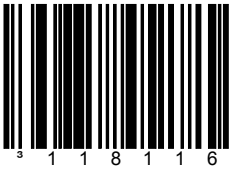
The scanner can only enter MetroSet® mode before any bar codes are scanned.

* Allow Configuration Mode Anytime



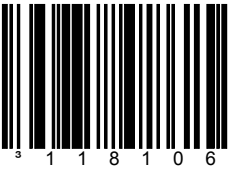
Allow MetroSet® configuration at any time.

Allow Configuration Codes on Power Up



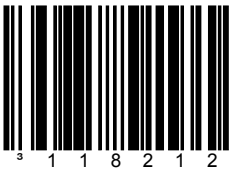
Once a product bar code is scanned after power-up, the scanner will not accept configuration bar codes.

* Allow Configuration Codes Anytime

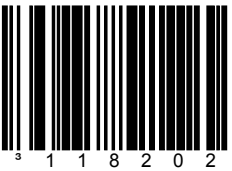


Allows scanning of configuration bar codes any time.

Enable Single Code Configuration

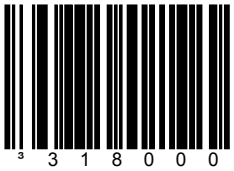


Disable Single Code Configuration



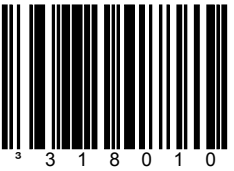
SECTION D **SCAN BUFFERS**

* 1 Scan Buffer



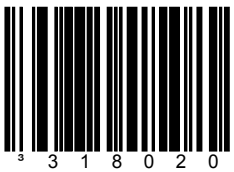
The scanner will scan one bar code in the scan field and not scan again until the bar code is removed from the scan field for the duration of the same symbol time out.

2 Scan Buffers



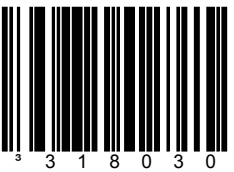
The scanner will scan 2 bar codes in the scan field one time each. These 2 bar codes will not be scanned again until they are removed from the scan field for the duration of the same symbol time out.

3 Scan Buffers



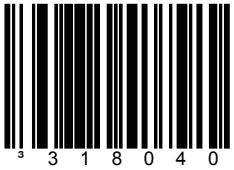
Same function as 2 Scan Buffers, but 3 bar codes are in the scan field.

4 Scan Buffers



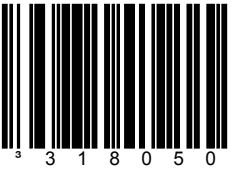
Same function as 2 Scan Buffers, but 4 bar codes are in the scan field.

5 Scan Buffers



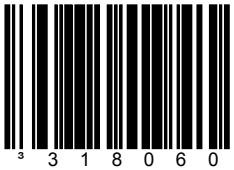
Same function as 2 Scan Buffers, but 5 bar codes are in the scan field.

6 Scan Buffers



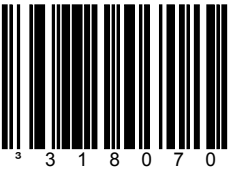
Same function as 2 Scan Buffers, but 6 bar codes are in the scan field.

7 Scan Buffers



Same function as 2 Scan Buffers, but 7 bar codes are in the scan field.

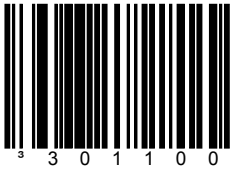
8 Scan Buffers



Same function as 2 Scan Buffers, but 8 bar codes are in the scan field.

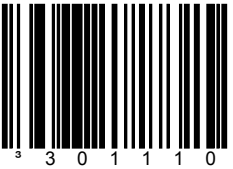
SECTION D **REDUNDANT SCANS**

* 0 Redundant Scans



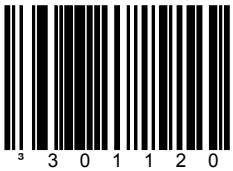
Requires 1 good decode for a “good scan”.

1 Redundant Scans



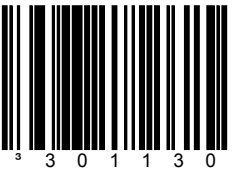
Requires 2 consecutive decodes of the same bar code data for a “good scan”.

2 Redundant Scans



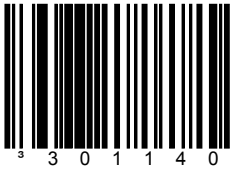
Requires 3 consecutive decodes of the same bar code data for a “good scan”.

3 Redundant Scans



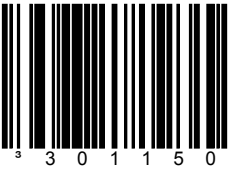
Requires 4 consecutive decodes of the same bar code data for a “good scan”.

4 Redundant Scans



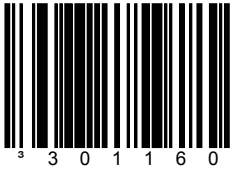
Requires 5 consecutive decodes of the same bar code data for a “good scan”.

5 Redundant Scans



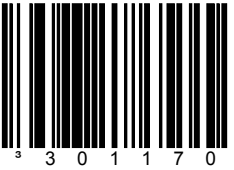
Requires 6 consecutive decodes of the same bar code data for a “good scan”.

6 Redundant Scans



Requires 7 consecutive decodes of the same bar code data for a “good scan”.

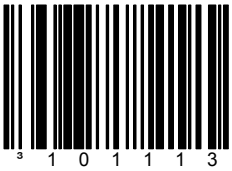
7 Redundant Scans



Requires 8 consecutive decodes of the same bar code data for a “good scan”.

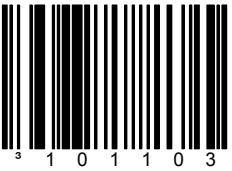
SECTION D **MISCELLANEOUS DECODE FEATURES**

* Enable Segmented UPC Decoding



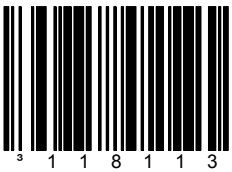
Enabling segmented UPC decoding aids in deciphering damaged or incomplete bar codes.

Disable Segmented UPC Decoding



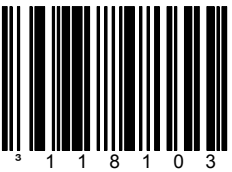
Disable this feature when bar codes are in good reading condition. This will speed up decoding and improve over all accuracy.

Optional Same Symbol Check



Requires 1 different character between successive bar codes to consider the bar code “new”.

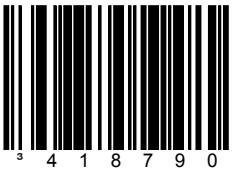
* Normal Same Symbol Check



Requires 3 different characters between successive bar codes to consider the bar code “new”.

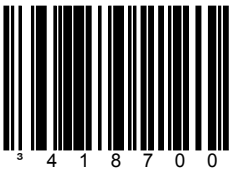
Do not change these settings unless instructed by a Metrologic representative.

* Optimize for
Low Density Codes †

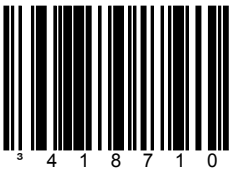


Optimize for
High Density Codes †

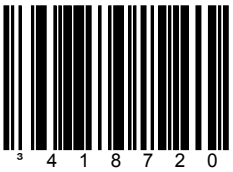
Fixed for
High Density Codes †



Fixed for
Medium Density Codes †



Fixed for
Low Density Codes †



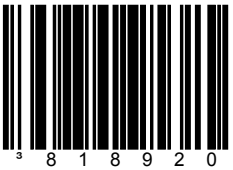
† For use with omnidirectional scanners only.

SECTION D **SAME SYMBOL TIME OUTS**

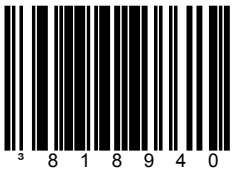
These numbers determine the length of time before a bar code can be rescanned after it is removed from the scan field. Single code fixed settings in msecs of No, 50, 100, 200, 500, 1200 (1.2 sec), 2000 (2.0 sec) and infinite are available. User configurable values can be set in user-configurable increments of 50 msecs to 6350 msecs (6.35 sec).

No Same Symbol Time Out

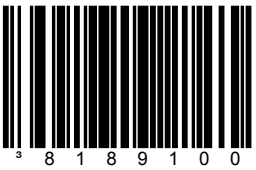
Same Symbol Time Out
100 msecs



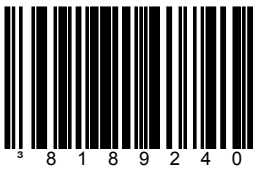
Same Symbol Time Out
200 msecs



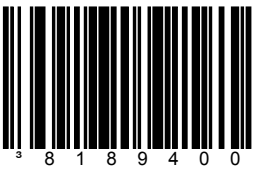
* Same Symbol Time Out
500 msecs



Same Symbol Time Out
1200 msecs



Same Symbol Time Out
2000 msecs

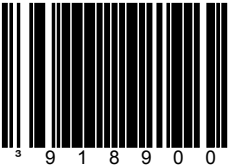


Infinite
Same Symbol Time Out

The scanner will not repetitively scan the same bar code.

This option overrides the symbol rescan time-outs.

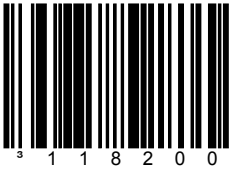
~ Variable
Same Symbol Time Out



Using the Multi-Code Method (page x), scan this bar code and a code byte sequence from Section M to set the same symbol time-out duration. Values range from 001 to 127 (50 to 6350 msecs).

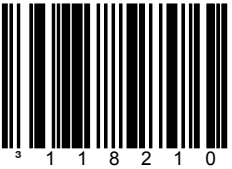
BARCODE ABSENCE

* Enable Bar Code
Absence Detection †



† Excludes the MS2000 Stratos Series.

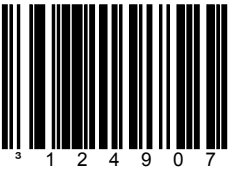
Disable Bar Code
Absence Detection †



Enable Stratos Bar Code
Absence Detection

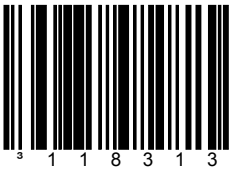
The scan field must be free of data for 50 milliseconds to accept a new bar code.

* Disable Stratos Bar Code
Absence Detection



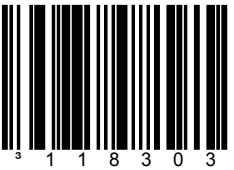
SECTION D **LED OPTIONS**

Flash Green LED if Rescan Allowed

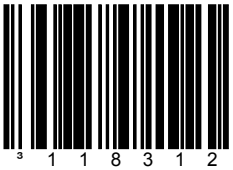


This indicates same symbol timeout has elapsed.

* Do not flash Green LED if Rescan Allowed

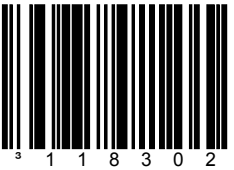


Reverse LED Functions



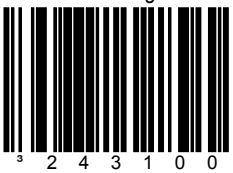
Red = Laser On
Green = Good Read

* Normal LED Functions



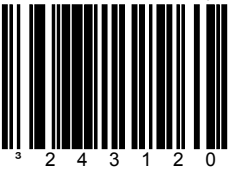
Green = Laser On
Red = Good Read

* Laser LED High Intensity



Laser LED Intensity is High or Normal.

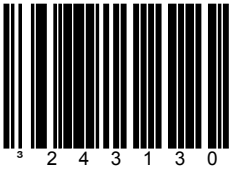
Laser LED Low Intensity



Laser LED is Low Intensity

This feature is not available with all models.

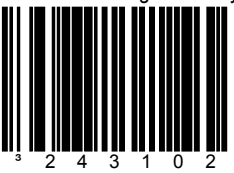
Laser LED Off



The laser LED does not signify laser ON. The LED will continue to light for all other functions.

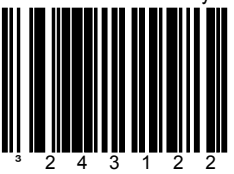
This feature is not available with all models.

* Scan LED High Intensity



Scan LED Intensity is High or Normal.

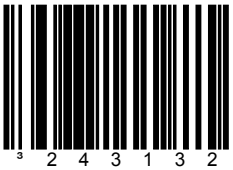
Scan LED Low Intensity



Scan LED Intensity is Low Intensity

This feature is not available with all models.

Scan LED Off



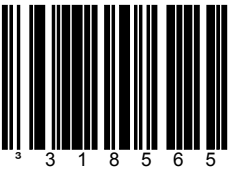
The scan LED does not signify barcode scanning. The LED will continue to light for all other functions.

This feature is not available with all models.

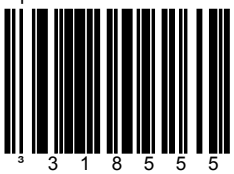
SECTION D **BEEPER OPTIONS**

* Normal Tone

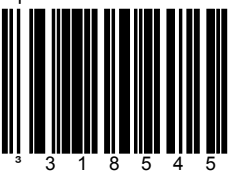
Optional Tone 1



Optional Tone 2

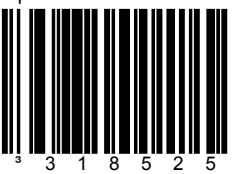


Optional Tone 3



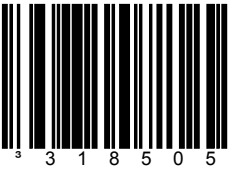
Optional Tone 4

Optional Tone 5

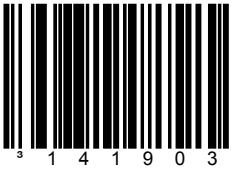


Optional Tone 6

No Beep

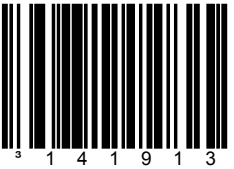


* Enable Good Scan Beep



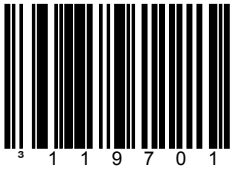
Enable good scan beep on power up.

Disable Good Scan Beep



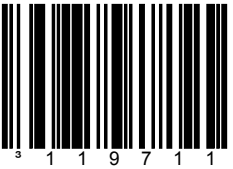
Disable good scan beep on power up.

* Enable Button Beep Controls



This feature is not available with all models.

Disable Button Beep Controls

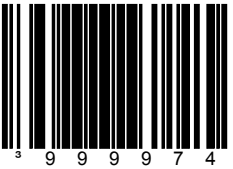


This feature is not available with all models.

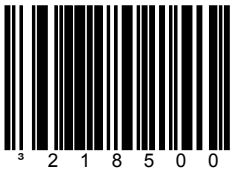
SECTION D **BEEPER OPTIONS**

Next Beep Tone

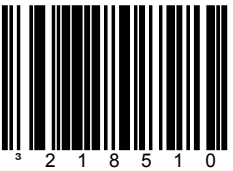
Next Volume



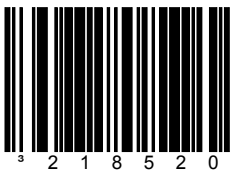
* Loudest Volume



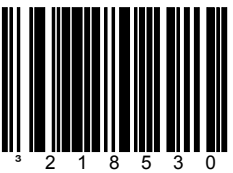
2nd Loudest Volume



3rd Loudest Volume



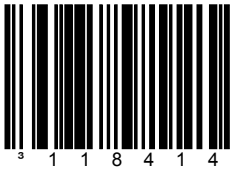
No Volume



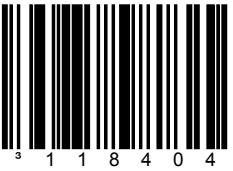
* Beep Once on Supplements

Beep Twice on Supplements

Enable Fast Beep

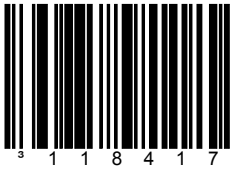


* Disable Fast Beep



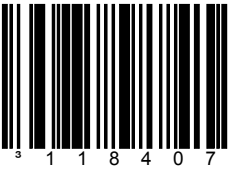
SECTION D **BEEPER OPTIONS**

Beep on BEL Command

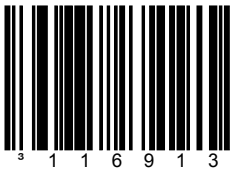


The scanner beeps when it receives a BEL character from the host. If a number is sent within 200 msecs before the BEL character, then the scanner will beep that number of times.

* Ignore BEL Command

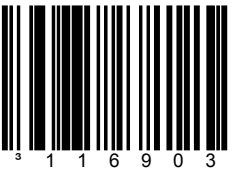


Enable Light Pen Toggle During Beep



The scanner will beep and toggle the light pen data line on a successful decode. This drives a “good read” indicator.

* Disable Light Pen Toggle During Beep



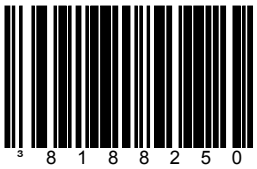
SECTION D **INTER-CHARACTER DATA TRANSMISSION DELAYS**

Use these codes to select the amount of delay between sending data characters and "Bar Code" records from the scanner to the host. This helps prevent the scanner from overflowing host input buffers.

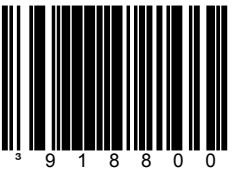
* 1 msec
Inter-Character Delay

10 msec
Inter-Character Delay

25 msec
Inter-Character Delay



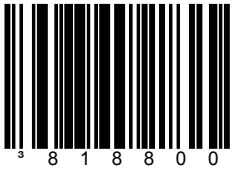
~ Variable msec
Inter-Character Delay



Scan this bar code and a sequence of code bytes in Section M to set the delay between characters sent to the host system. Delay range can be set from 1 to 255 msecs.
Refer to the *Multi-Code Configuration Method* on page x.

SECTION D INTER-CHARACTER DATA TRANSMISSION DELAYS

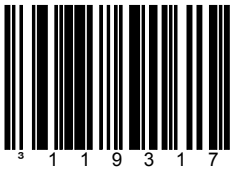
No Inter-Character Delay



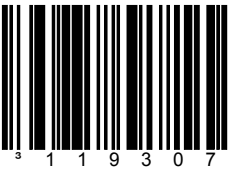
INTER-RECORD DATA TRANSMISSION DELAYS

~ Variable
Inter-Record Delay

Turn Off Laser During
Inter-Record Delay

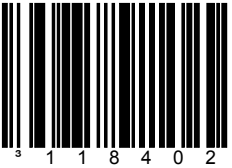


* Leave Laser On During
Inter-Record Delay

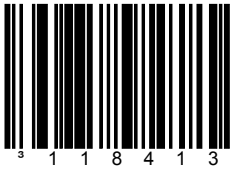


Enable
Communications Time Outs

* Disable Communications
Time Outs

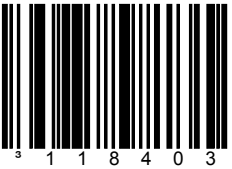


* Beep Before Transmit



Scanner will beep before
each label is transmitted.

Beep After Transmit



Scanner will beep after each
label is transmitted.

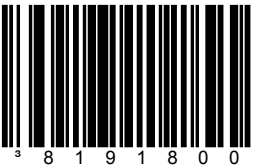
~ Variable Communications
Time Out

* Default Communications
Time Out (2 secs)

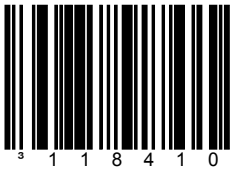
SECTION D COMMUNICATION TIME OUT OPTIONS

Short Communications Time Out (1 sec)

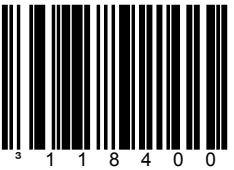
Long Communications Time Out (4 secs)



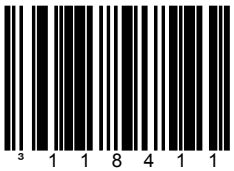
Three Beeps on Time Out



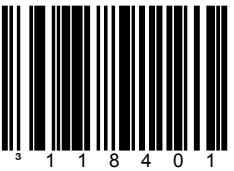
* No Beeps on Time Out



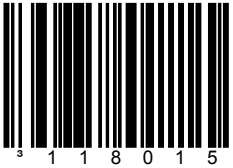
Razzberry Tone on Time Out



* No Razzberry Tone on Time Out

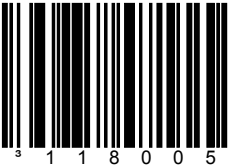


Enable "D/E" Disable Command



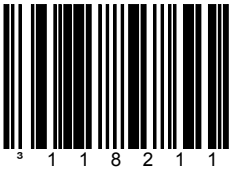
The scanner will disable scanning after it receives and ASCII "D" from the host device. It will enable scanning when it receives an ASCII "E".

* Disable "D/E" Disable



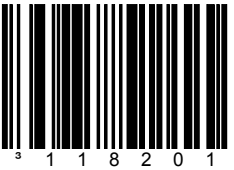
Do not monitor D/E commands.

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".

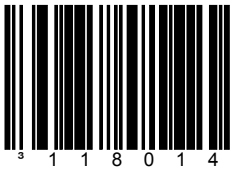
* No "Z/R" Type D/E Simulation



Do not monitor Z/R commands.

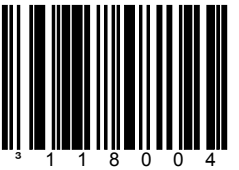
SECTION D HOST SCANNER COMMANDS

Enable “F/L” Laser Command



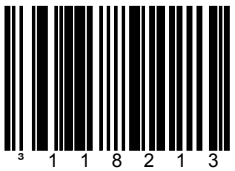
The scanner will turn off the laser after receiving an ASCII “F” character. The laser will turn on after it receives an ASCII “L” character.

* Disable “F/L” Laser Command



Do not monitor “F/L” commands.

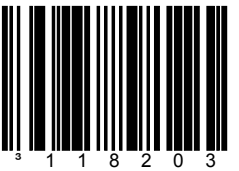
Motor “On/Off” Using M/O Commands †



The scanner will turn the motor OFF after it receives an ASCII “O” character. The motor will turn ON after the scanner receives an ASCII “M” character. †

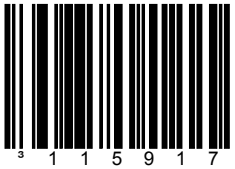
† For use with omnidirectional scanners only.

* Disable “M/O” Commands

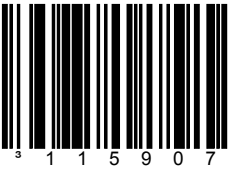


Do not monitor the M/O commands.

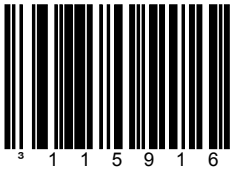
Enable I Command



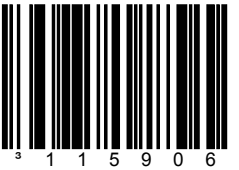
Disable I Command



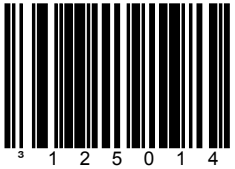
Enable i Command



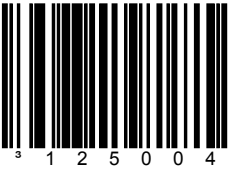
Disable i Command



Enable SI/SO Command

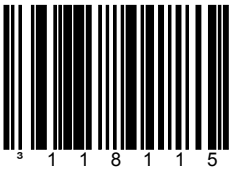


Disable SI/SO Command



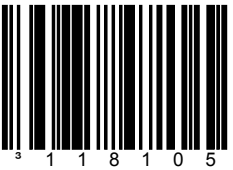
SECTION D HOST SCANNER COMMANDS

Use
DTR Scan Disable



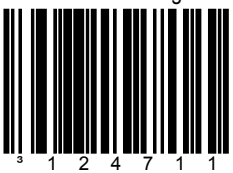
The scanner will monitor the DTR input to determine if scanning should be allowed. A +12V "active" level enables decoding. A -12V "inactive" level disables decoding.

* Do not use
DTR Scan Disable



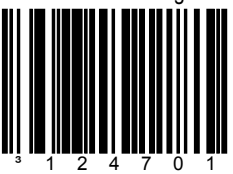
Do not monitor the DTR input.

Enable Pass Through

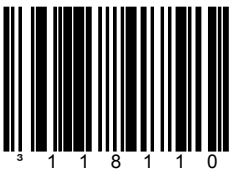


The AUX scanner must be configured for the same Baud rate as the host, with STX prefix, Nixdorf ID characters and CR Terminator enabled.

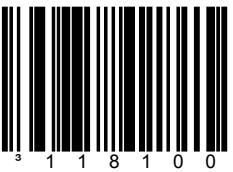
Disable Pass Through



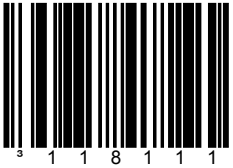
Activate on DC2 Character



* Do Not Activate on DC2 Character



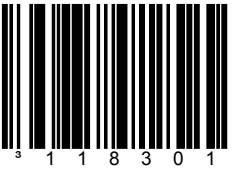
Transmit “NO READ” if DC2 Activated



Do Not Transmit “NO READ” if DC2 Activated

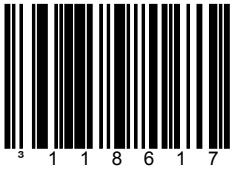
No Green LED During “NO READ” Xmit

* Green LED During “NO READ” Xmit



SECTION D — POWER SAVE MODES

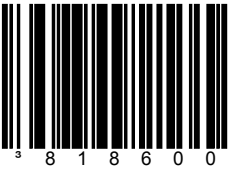
Always Power Save Mode†



The scanner enters power save mode immediately after power-up and after each bar code scanned. †

† For use with omnidirectional scanners only.

No Power Save Mode†

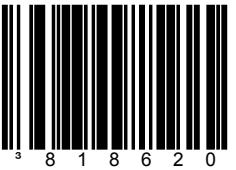


The scanner will never enter power save mode. †

Power Save Mode in 1 minute †

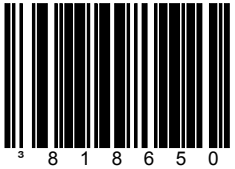
The scanner enters power save mode when the scanner remains idle for 1 min. †

Power Save Mode in 2 minutes †



The scanner enters power save mode if the scanner remains idle for 2 min. †

Power Save in 5 Minutes †

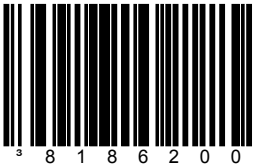


The scanner enters power save mode if the scanner remains idle for 5 min. †

Power Save in 10 Minutes †

The scanner enters power save mode if the scanner remains idle for 10 min.†

Power Save in 20 Minutes †



The scanner enters power save mode if the scanner remains idle for 20 min. †

† For use with omnidirectional scanners only.

Power Save in 30 Minutes †

The scanner enters power save mode if the scanner remains idle for 30 min. †

Default
Power Save Mode ††

This feature is not available with all models.

†† Some Metrologic scanners automatically 'wake' or exit from the power save mode if the IR detects movement. Other Metrologic scanners wake if their multi-Function Button is pressed. Please refer to the Installation and User's Guide specific to each product.

Blink
Power Save Mode ††

The laser Blinks OFF & ON after a configured period of non-use.

When the scanner recognizes a bar code it will exit the blink mode.

This feature is not available with all models.

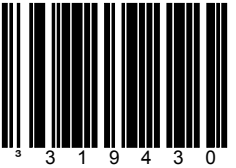
SECTION D **POWER SAVE MODES**

Laser OFF
Power Save Mode ††

The laser turns OFF after a configured period of non-use.

This feature is not available with all models.

Laser Motor OFF
Power Save Mode ††

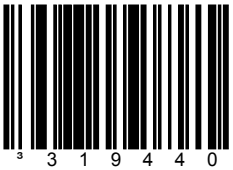


The laser and motor turns OFF after a configured period of non-use.

This feature is not available with all models.

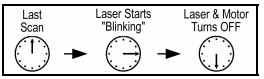
†† Some Metrologic scanners automatically 'wake' or exit from the power save mode if the IR detects movement. Other Metrologic scanners wake if their multi-Function Button is pressed. Please refer to the Installation and User's Guide specific to each product.

Dual #1
Power Save Mode ††



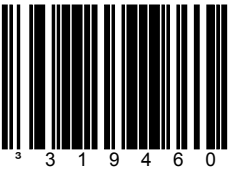
The laser blinks OFF & ON after a configured period of non-use then the laser and motor turn OFF at thirty-minute intervals.

Example 1:
Example of Dual #1 Power Save Mode with the power save timeout set to 15 minutes.



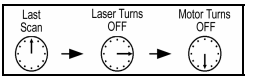
This feature is not available with all models.

Dual #2
Power Save Mode ††



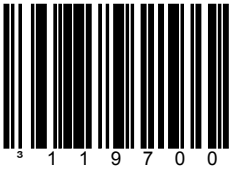
The laser turns OFF after a configured period of non-use then the motor turns OFF at thirty-minute intervals.

Example 2:
Example of Dual #2 Power Save Mode with the power save timeout set to 15-minutes.



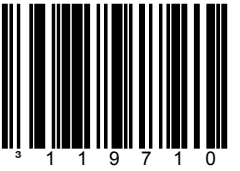
This feature is not available with all models.

* Enable
Power Save Switch



This feature is not available with all models.

Disable
Power Save Switch



This feature is not available with all models.

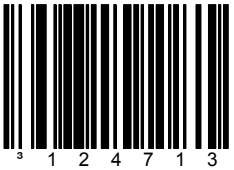
SECTION D JAPANESE DOUBLE FIELD SUPPORT

To support Japanese Double Field Bar Codes, first make sure you have your scanner programmed to the following settings.

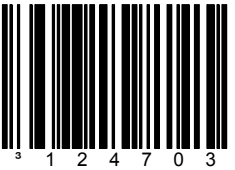
- Disable Segmented UPC Decoding
- Enable 2 scan buffers
- Disable bar code absence detection
- Enable normal code selects

Then, scan the ***Enable*** *Japan 2 Field* bar code.

Enable Japan 2 Field



* Disable Japan 2 Field



Next, select the matching bar codes that are used for double field symbols.
Note that only UPC/EAN bar codes are allowed in double field mode.
Select at least two characters for each bar code. The maximum is 4 upper and 4 lower bar codes.

EXAMPLE

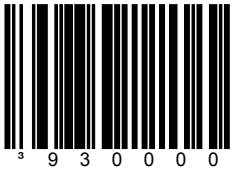
To select 54 as the first two characters in the Upper Code pair 1:

1. Scan the *Upper Code 1 Character 1* bar code (*shown on page D-31*)
2. Determine the correct Code Byte Value for the character 5 in 54 (Refer to Section M's ASCII Reference Table on pages M-6 to M-10)
    a. Scan Code Byte 0
    b. Scan Code Byte 5
    c. Scan Code Byte 3
3. Scan the *Upper Code 1 Character 2* bar code (*shown on page D-31*)
4. Determine the correct Code Byte Value for the character 4 in 54.
    a. Scan Code Byte 0
    b. Scan Code Byte 5
    c. Scan Code Byte 2

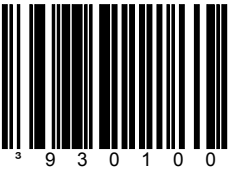
To select 18 as the first two characters in the Lower Code pair 1:

1. Scan the *Lower Code 1 Character 1* bar code (*shown on page D-31*)
2. Determine the correct Code Byte Value for the character 1 in 18 (refer to Section M's ASCII Reference Table)
    a. Scan Code Byte 0
    b. Scan Code Byte 4
    c. Scan Code Byte 9
3. Scan the *Lower Code 1 Character 2* bar code (*shown on page D-31*)
4. Determine the correct Code Byte Value for the character 8 in 18. (Refer to Section M's ASCII Reference Table on pages M-6 to M-10)
    a. Scan Code Byte 0
    b. Scan Code Byte 5
    c. Scan Code Byte 6

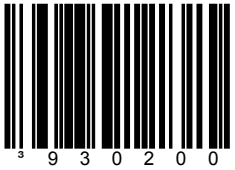
Upper Code 1 Character 1



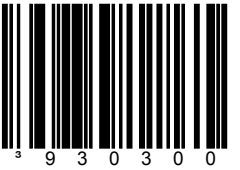
Upper Code 1 Character 2



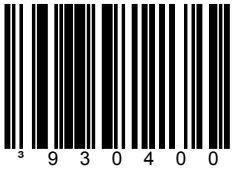
Lower Code 1 Character 1



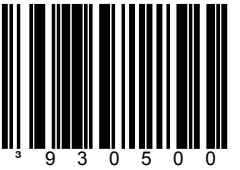
Lower Code 1 Character 2



Upper Code 2 Character 1

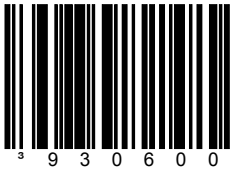


Upper Code 2 Character 2

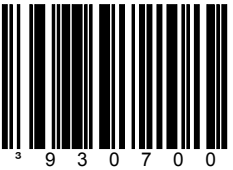


SECTION D **JAPANESE DOUBLE FIELD SUPPORT**

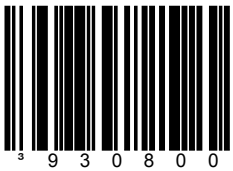
Lower Code 2 Character 1



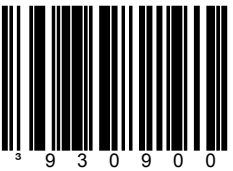
Lower Code 2 Character 2



Upper Code 3 Character 1

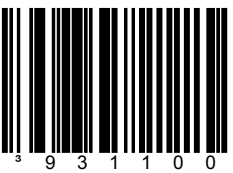


Upper Code 3 Character 2

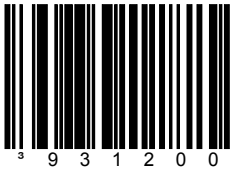


Lower Code 3 Character 1

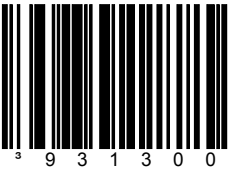
Lower Code 3 Character 1



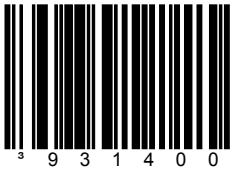
Upper Code 4 Character 1



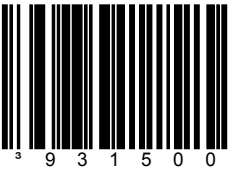
Upper Code 4 Character 2



Lower Code 4 Character 1

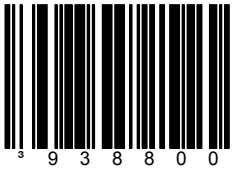


Lower Code 4 Character 2



SECTION D JAPANESE DOUBLE FIELD SUPPORT

Japanese Trial Time

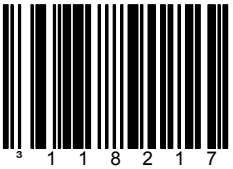


Scan the above bar code followed by the 3 code bytes in Section M that represent the timeout value desired if in special code select mode.

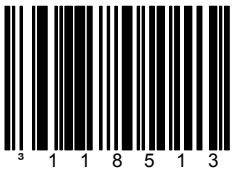
1 is equal to 100 milliseconds

Example:
If a 500 millisecond timeout is desired, scan the above code followed by code byte 0, code byte 0 and code byte 5.

Enable Code Selects

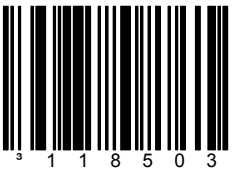


Enable Error Tone

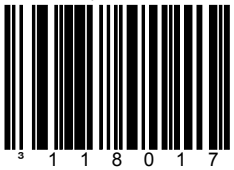


Adds ability to sound RAZZ error tone when special code selects fail.

* Disable Error Tone



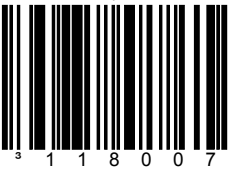
Scanability ON



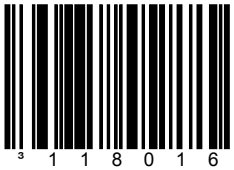
The scanner will enter scanability test mode.

Do not enable unless instructed to by a Metrologic representative.

* Scanability OFF



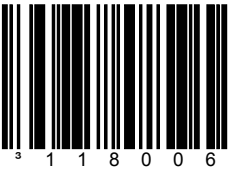
Scan Count Mode ON



The scanner will enter scan count test mode and the scanner's firmware number will transmit to the host.

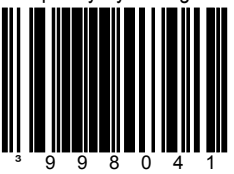
Do not enable unless instructed to by a Metrologic representative.

* Scan Count Mode OFF



Temporary Symbologies

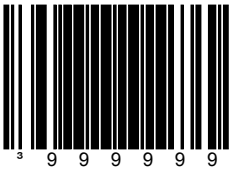
The *Temporary Symbologies* test code enables all major types of bar code symbologies, reduces the minimum number of characters required to 1, sets the minimum ITF characters required to 2, and adds the symbology name as a prefix to the transmission. This feature is disabled when power to the scanner is cycled OFF and ON.



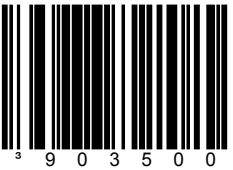
Do not enable unless instructed to by a Metrologic representative

Scan the *Enter/Exit Configuration Mode* bar code before trying to set this feature. Please refer to the Multi-Code method on page x.

Enter/Exit
Configuration Mode

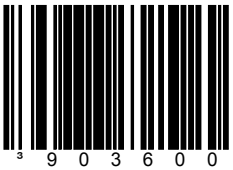


~ Configurable Prefix Character #1



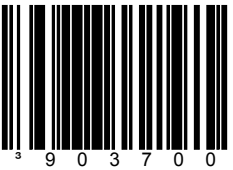
A prefix ID can be added and assigned for data transmission. Use this code with a 3-code byte sequence from Section M that represents the desired character.

~ Configurable Prefix Character #2



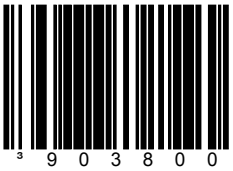
Assigns a 2nd configurable prefix character.

~ Configurable Prefix Character #3



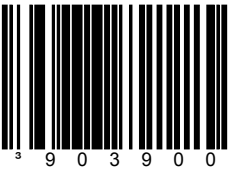
Assigns a 3rd configurable prefix character.

~ Configurable Prefix Character #4



Assigns a 4th configurable prefix character.

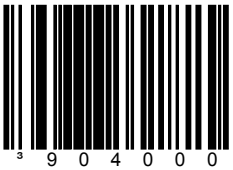
~ Configurable Prefix Character #5



Assigns a 5th configurable prefix character.

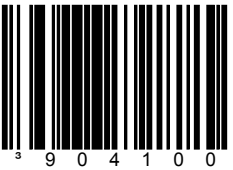
SECTION E **CONFIGURABLE PREFIXES, ALL DATA**

~ Configurable Prefix Character #6



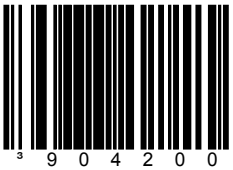
Assigns a 6th configurable prefix character.

~ Configurable Prefix Character #7



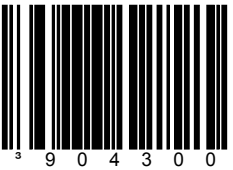
Assigns a 7th configurable prefix character.

~ Configurable Prefix Character #8



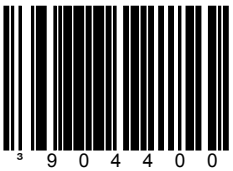
Assigns a 8th configurable prefix character.

~ Configurable Prefix Character #9

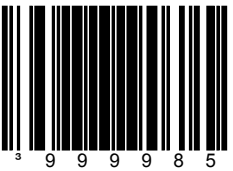


Assigns a 9th configurable prefix character.

~ Configurable Prefix Character #10

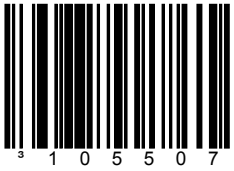


* Clear all User Configurable Prefixes



SECTION E **CONFIGURABLE ID CHARACTERS, CODE SPECIFIC**

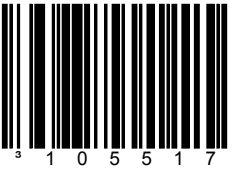
* Use Configurable Code ID Bytes as Prefixes



User configured, code specific ID bytes are transmitted before the data.

If using prefixes, user configured suffixes can not be used.

Use Configurable Code ID Bytes as Suffixes

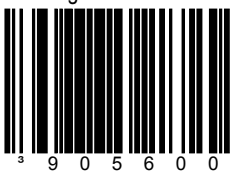


User configured, code specific ID bytes are transmitted after the data.

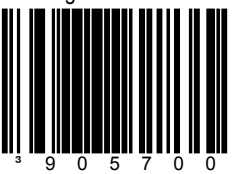
If using suffixes, user configured prefixes can not be used.

IDENTIFIERS CHARACTER

~ Configurable UPC-A ID †



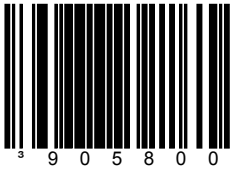
~ Configurable UPC-E ID †



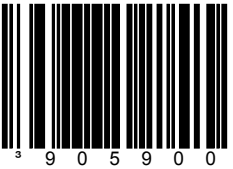
† While using the Multi-Code method, scan this bar code followed by the 3 code byte bar codes in Section M that represent a unique ID character to be associated with this bar code type. (Refer to the *Multi-Code Method* on page x.)

SECTION E **CONFIGURABLE ID CHARACTERS, CODE SPECIFIC**

~ Configurable EAN-8 ID †

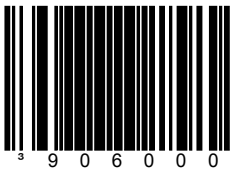


~ Configurable EAN-13 ID †

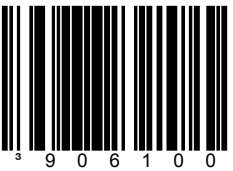


† While using the Multi-Code method, scan this bar code followed by the 3 code byte bar codes in Section M that represent a unique ID character to be associated with this bar code type. (Refer to the *Multi-Code Method* on page x.)

~ Configurable Code 39 ID †

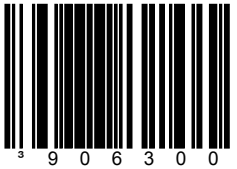


~ Configurable Code 128 ID †

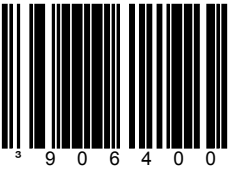


SECTION E **CONFIGURABLE ID CHARACTERS, CODE SPECIFIC**

~ Configurable Code 93 ID †

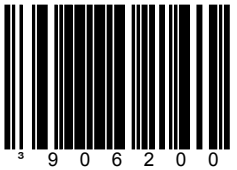


~ Configurable Code 11 ID †

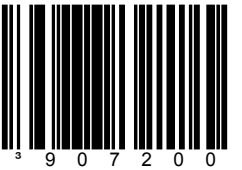


† While using the Multi-Code method, scan this bar code followed by the 3 code byte bar codes in Section M that represent a unique ID character to be associated with this bar code type. (Refer to the Multi-Code method on page x.)

~ Configurable Telepen ID †

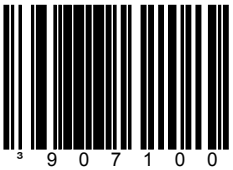


~ Configurable TRI-OPTIC ID †

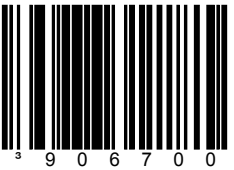


SECTION E **CONFIGURABLE ID CHARACTERS, CODE SPECIFIC**

~ Configurable Standard 2 of 5 ID †

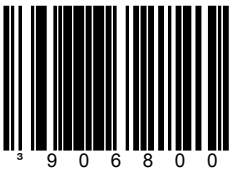


~ Configurable Interleaved 2 of 5 ID †

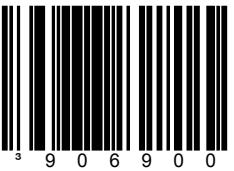


† While using the Multi-Code method, scan this bar code followed by the 3 code byte bar codes in Section M that represent a unique ID character to be associated with this bar code type. (Refer to the *Multi-Code method* on page x.)

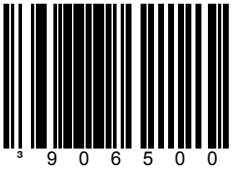
~ Configurable Matrix 2 of 5 ID †



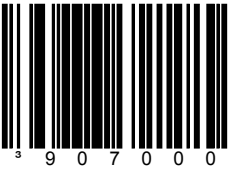
~ Configurable Airline 2 of 5 ID †



~ Configurable
MSI Plessey ID †

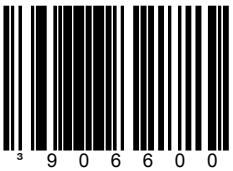


~ Configurable
UK Plessey ID†

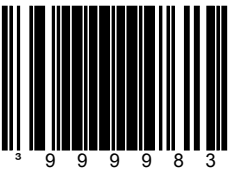


† While using the Multi-Code method, scan this bar code followed by the 3 code byte bar codes in Section M that represent a unique ID character to be associated with this bar code type. (Refer to the *Multi-Code method* on page x.)

~ Configurable
Codabar ID †

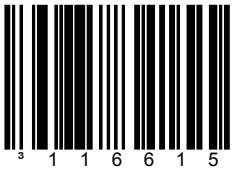


* Clear all Configurable
Code Specific ID's †



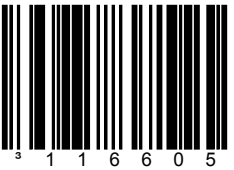
SECTION E **STANDARD PREFIX CHARACTERS**

Enable STX Prefix



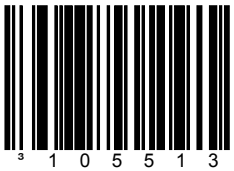
The scanner will transmit a **S**tart of **T**e**X**t (ASCII 02H) before each bar code.

* Disable STX Prefix

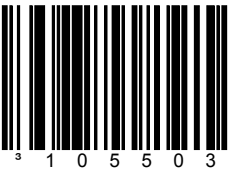


Will not transmit a **S**tart of **T**e**X**t (ASCII 02H) before each bar code.

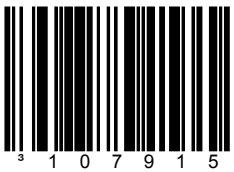
Enable Rockford-Thompson Mode



* Disable Rockford-Thompson Mode



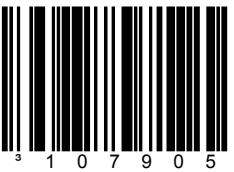
Enable AIM ID Characters



The scanner will transmit AIM symbology identifiers.

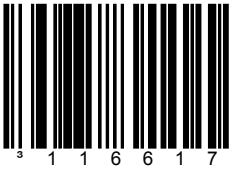
Some scanner models may not support this feature.

* Disable AIM ID Characters



The scanner will not transmit AIM symbology identifiers.

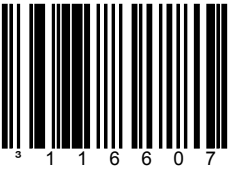
Enable UPC Prefix ID



When enabled, the scanner will transmit a prefix before any UPC/EAN bar code.

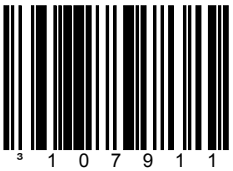
The prefixes are as follows:
A (UPC-A),
E0 (UPC-E),
F (EAN-13), and
FF (EAN-8).

* Disable UPC Prefix ID



Do not send prefix ID Characters with UPC/EAN codes.

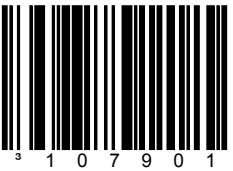
Enable NCR Prefix ID



When enabled, the scanner will transmit a prefix before the following code types.

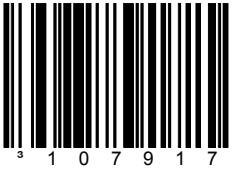
The prefixes are as follows:
A (UPC-A),
E0 (UPC-E),
FF (EAN-8),
F (EAN-13),
B1 (Code 39),
B2 (ITF) and
B3 (Code 128 & other codes).

* Disable NCR Prefix ID



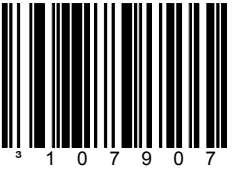
SECTION E **STANDARD PREFIX CHARACTERS**

Enable Nixdorf ID Characters



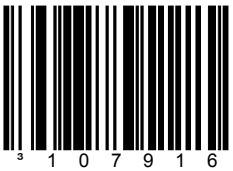
This option transmits code identifiers before each bar code for many Siemens/Nixdorf registers.

* Disable Nixdorf ID Characters



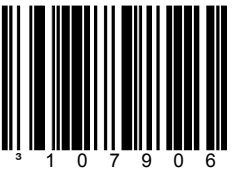
This option will not transmit Siemens/Nixdorf code identifiers.

Enable SANYO ID Characters



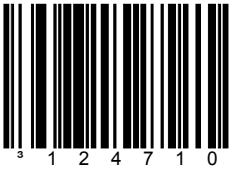
Transmit Sanyo ID Characters.

* Disable SANYO ID Characters



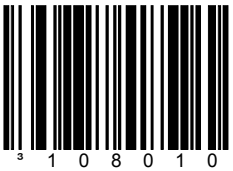
Do not transmit Sanyo ID Characters.

Enable TEC Register Format ID Characters

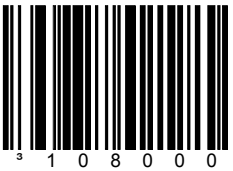


Disable TEC Register Format ID Characters

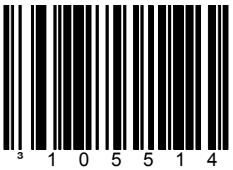
Enable TEC MA1530 ID Characters



Disable TEC MA1530 ID Characters



Enable Symbology Prefix



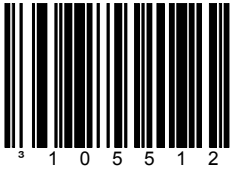
This option adds a symbology description in front of the bar code transmission.

Disable Symbology Prefix

Do not add a symbology description in front of the bar code transmission.

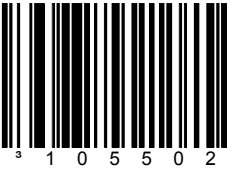
SECTION E **STANDARD PREFIX CHARACTERS**

Enable Manufacturer ID Prefix



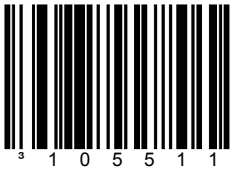
Transmits "METROLOGIC" before all bar code data to identify the scanner as a Metrologic Scanner.

* Disable Manufacturer ID Prefix

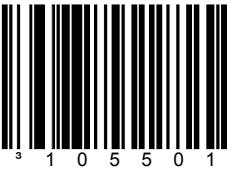


The scanner will not transmit the manufacturer identification string.

Enable "C" Prefix

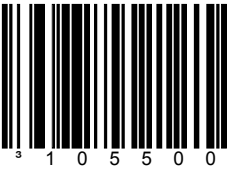


* Disable "C" Prefix

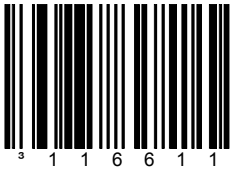


Enable "$" Prefix ID for UPC/EAN

* Disable "$" Prefix ID for UPC/EAN

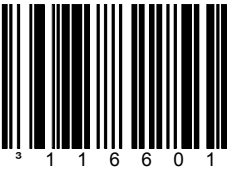


Enable Tab Prefix



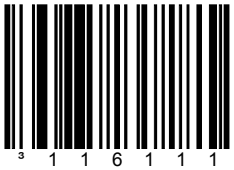
The scanner will transmit a TAB (ASCII 09H) before each bar code.

* Disable Tab Prefix

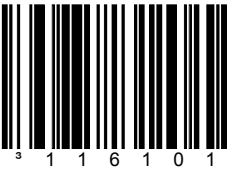


The scanner will not transmit a TAB.

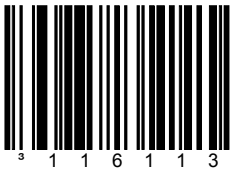
Enable SNI Beetle Mode



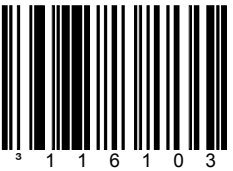
* Disable SNI Beetle Mode



Enable Cipher 1021 IDs

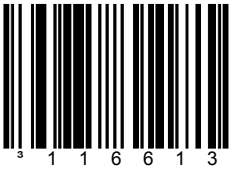


* Disable Cipher 1021 IDs



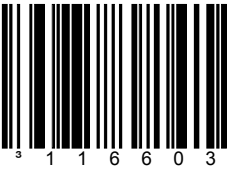
SECTION E **STANDARD SUFFIX CHARACTERS**

* Enable CR Suffix



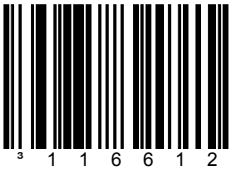
The scanner will transmit a **C**arriage **R**eturn after each bar code.

Disable CR Suffix



The scanner will not transmit a **C**arriage **R**eturn after each bar code.

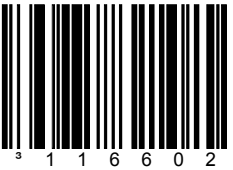
* Enable LF Suffix



The scanner will transmit a **L**ine **F**eed after each bar code.

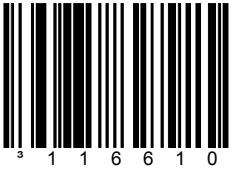
This feature is Disabled when keyboard wedge defaults are loaded.

Disable LF Suffix



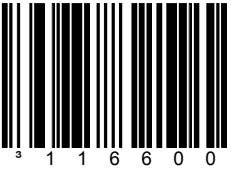
The scanner will not transmit a **L**ine **F**eed after each bar code.

Enable Tab Suffix



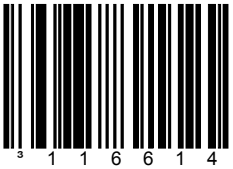
The scanner will transmit a TAB (ASCII 09H) after each bar code.

* Disable Tab Suffix



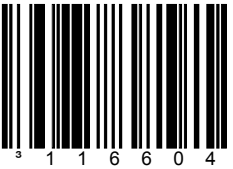
The scanner will not transmit a TAB (ASCII 09H) after each bar code.

Enable ETX Suffix



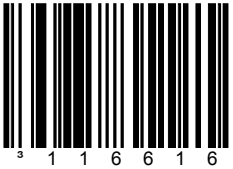
The scanner will transmit **E**nd of **T**e**X**t (ASCII 03H) after the bar code data.

* Disable ETX Suffix



The scanner will not transmit **E**nd of **T**e**X**t (ASCII 03H).

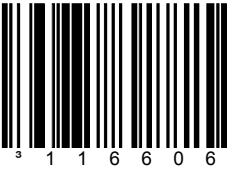
Enable UPC Suffix ID



The scanner will transmit a suffix after any UPC/EAN bar code.

The suffixes are as follows:
A (UPC-A),
E (UPC-E),
F (EAN-13) and
F (EAN-8).

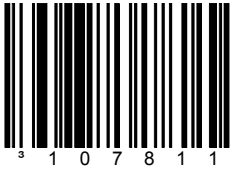
* Disable UPC Suffix ID



The scanner will not transmit a suffix after UPC/EAN bar codes.

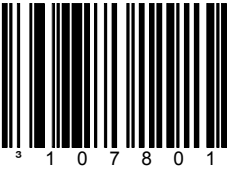
SECTION E LONGITUDINAL REDUNDANCY CHECK (LRC)

Enable Transmit of LRC Calculation



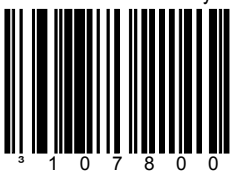
The scanner outputs an LRC check character after the bar code.

* Disable Transmit of LCR Calculation



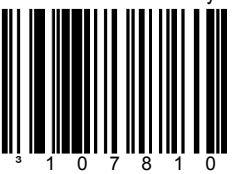
The scanner will not output an LRC (check character) after the bar code.

* Start LRC on First Byte



The scanner will calculate the LRC check digit starting with the first character.

Start LRC on Second Byte

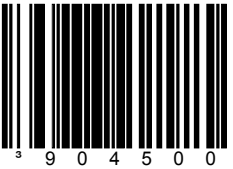


The scanner will calculate the LRC check digit starting with the second character.

Scan the *Enter/Exit Configuration Mode* bar code before trying to set this feature. Refer to the *Multi-Code Method* on page x.

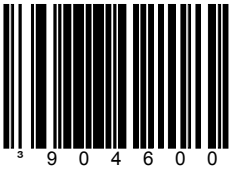
Enter/Exit
Configuration Mode

~ Configurable Suffix Character #1



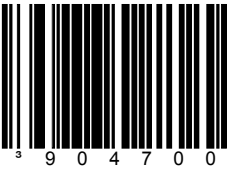
A suffix ID can be added and assigned for data transmission. Use this code with a 3 code byte sequence from Section M that represents the desired character.

~ Configurable Suffix Character #2



Assigns a 2nd configurable suffix character.

~ Configurable Suffix Character #3



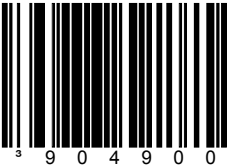
Assigns a 3rd configurable suffix character.

SECTION E **CONFIGURABLE SUFFIXES, ALL DATA**

~ Configurable Suffix Character #4 †

Assigns a 4th configurable suffix character.

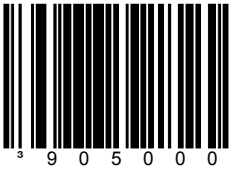
~ Configurable Suffix Character #5 †



Assigns a 5th configurable suffix character.

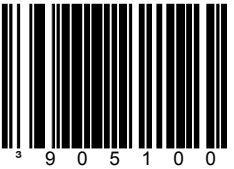
† While using the Multi-Code method, scan this bar code followed by the 3 code byte bar codes in Section M that represents the desired character. (Refer to the *Multi-Code method* on page x.)

~ Configurable Suffix Character #6 †



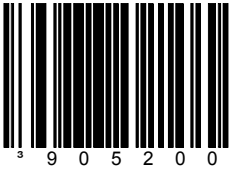
Assigns a 6th configurable suffix character.

~ Configurable Suffix Character #7 †



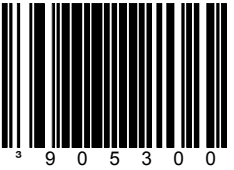
Assigns 7th configurable suffix character.

~ Configurable Suffix Character #8 †



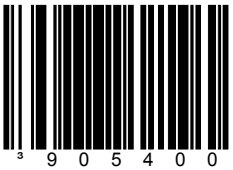
Assigns a 8th configurable suffix character.

~ Configurable Suffix Character #9 †



Assigns a 9th configurable suffix character.

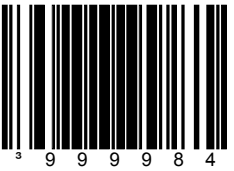
~ Configurable Suffix Character #10 †



Assigns a 10th configurable suffix character.

† While using the Multi-Code method, scan this bar code followed by the 3 code byte bar codes in Section M that represent the desired character. (Refer to the *Multi-Code method* on page x.)

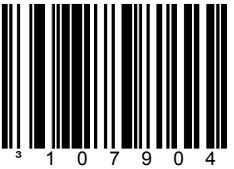
* Clear All User Configurable Suffixes



SECTION E **SPECIAL FORMATS**

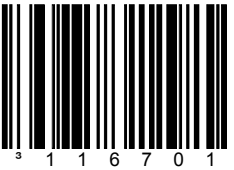
Enable SINEKO Mode

* Disable SINEKO Mode

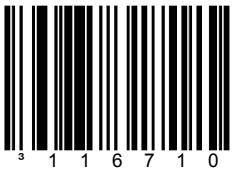


Enable Newcode Formatting Mode A

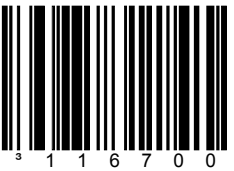
* Disable Newcode Formatting Mode A



Enable Newcode Formatting Mode B



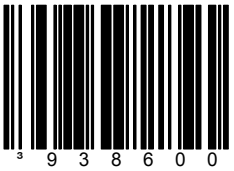
* Disable Newcode Formatting Mode B



To replace a character:

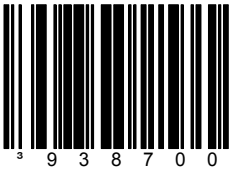
1. Scan the *Enter/Exit Configuration Mode* bar code (located on page x, at the front of this guide).
2. Scan the *Character to Replace Code* (shown below).
3. Scan the ASCII Code Byte value of the character you wish to replace (refer to the ASCII reference table in Section M).
4. Scan the *Replacement Character* bar code.
5. Scan the ASCII Code Byte value of the replacement character.
6. Scan the *Enter/Exit Configuration Mode* bar code (located on page x, at the front of this guide).

Character to Replace

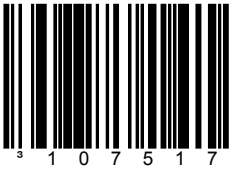


No Replacement

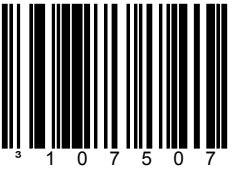
Replacement Character



* Transmit UPC-A Check Digit

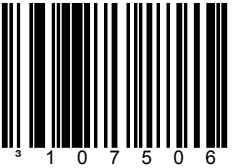


Do not Transmit UPC-A Check Digit



Transmit UPC-E Check Digit

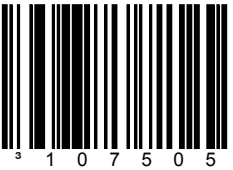
* Do Not Transmit UPC-E Check Digit



Expand UPC-E to 12 Digits

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

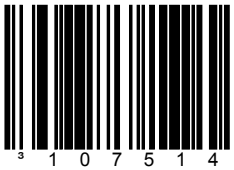
* Do Not Expand UPC-E To 12 Digits



Do not expand UPC-E to the 12 digit equivalent, UPC-A bar code.

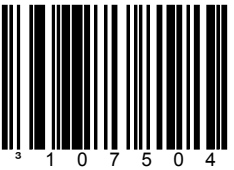
SECTION F **UPC/EAN**

Convert UPC-A to EAN-13



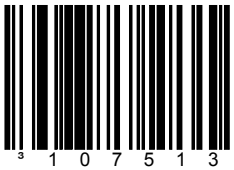
The scanner converts UPC-A to EAN-13 by transmitting a leading zero before the bar code.

* Do Not Convert UPC-A to EAN-13



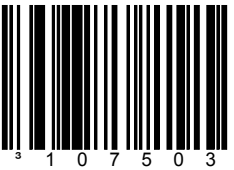
The scanner will not convert UPC-A to EAN-13.

Transmit Lead Zero on UPC-E



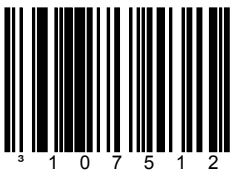
This option will transmit a zero before each UPC-E bar code.

Do Not Transmit Lead Zero on UPC-E



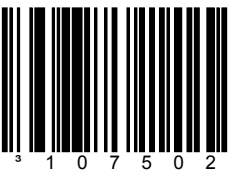
This option will not transmit a zero before each UPC-E bar code.

Convert EAN-8 to EAN-13



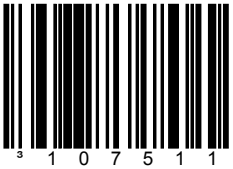
The scanner will transmit five zeros before the bar code to convert EAN-8 to EAN-13.

* Do Not Convert EAN-8 to EAN-13

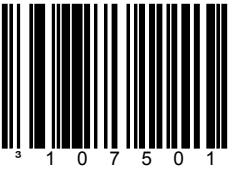


The scanner will not convert EAN-8 to EAN-13.

* Transmit UPC-A Number System

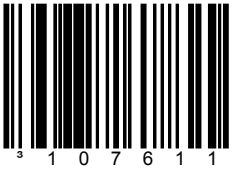


Do Not Transmit UPC-A Number System

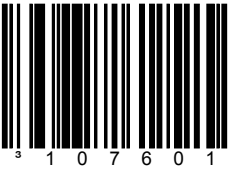


Metrologic strongly discourages using this feature. Duplicate numbers may result in the database.

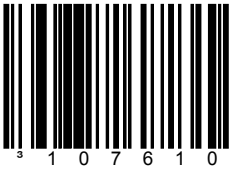
* Transmit UPC-A MFR #



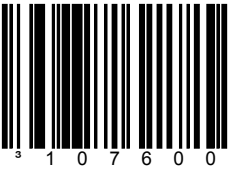
Do Not Transmit UPC-A MFR #



* Transmit UPC-A ITEM #

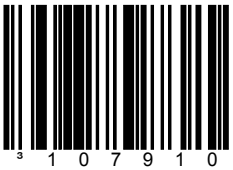


Do Not Transmit UPC-A ITEM #

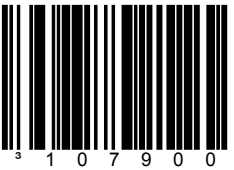


SECTION F **UPC/EAN**

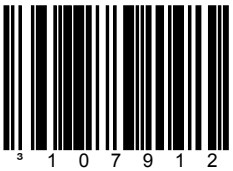
* Transmit EAN-8 Check Digit



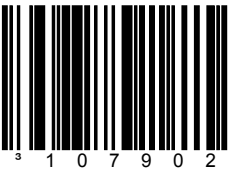
Do Not Transmit EAN-8 Check Digit



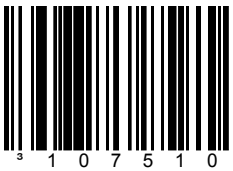
* Transmit EAN-13 Check Digit



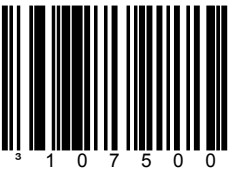
Do Not Transmit EAN-13 Check Digit



GTIN-14 Format

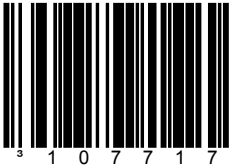


No GTIN-14 Format



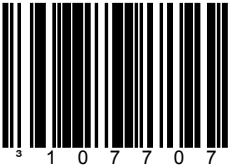
This feature is not available with all models.

Transmit Codabar Start/Stop Characters



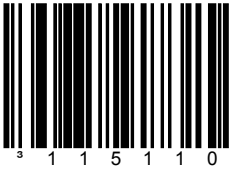
Transmits Codabar's start/stop characters before and after each bar code.

* Do Not Transmit Codabar Start/Stop

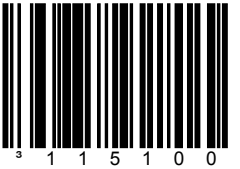


Will not transmit Codabar's start/stop characters before and after each bar code.

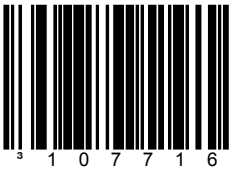
Convert Codabar Start/Stop Characters to Lowercase



* Do Not Convert Codabar Start/Stop Characters to Lowercase



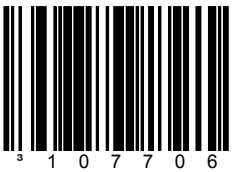
Enable
CLSI Editing



CLSI type editing will be done before the information is transmitted to the host.

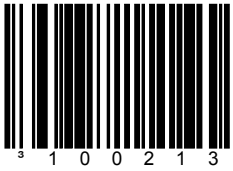
This option will only work with 14 digit Codabar type lengths.

* Do Not Enable
CLSI Editing



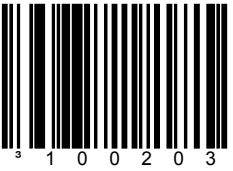
This option will not perform CLSI type editing before the information is transmitted to the host.

Enable MOD 43
Check on Code 39



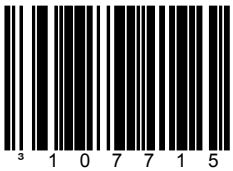
The scanner will only scan Code 39 bar codes that have a valid Modulo 43 Check Digit.

* Disable MOD 43 Check on Code 39



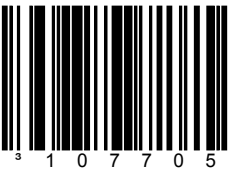
The scanner will not test Code 39 bar codes for a Modulo 43 Check Digit.

Transmit Mod 43
Check Digit on Code 39



This feature works in conjunction with Mod 43 Check on Code 39. Both must be enabled for this feature to work.

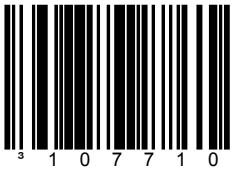
* Do Not Transmit Mod 43 Check Digit on Code 39



This option will not transmit Code 39's Mod 43 check character.

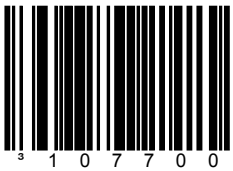
SECTION F **CODE 39**

Transmit Code 39 Start/Stop Characters



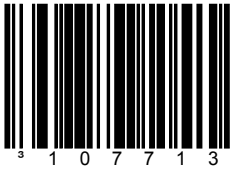
The scanner transmits Code 39's start/stop characters before and after each bar code.

* Do Not Transmit Code 39 Start/Stop Characters



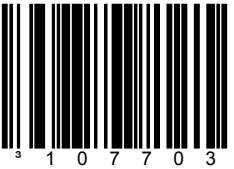
The scanner will not transmit Code 39's start/stop characters before and after each bar code.

Transmit
Code 11 Check Digit



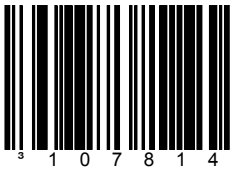
The scanner will transmit Code 11 check characters when used with the Enable Code 11 feature in Section A.

* Do Not Transmit
Code 11 Check Digit

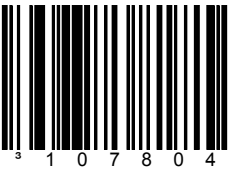


The scanner will not transmit Code 11 check characters.

Enable
Convert Telepen ^L to E

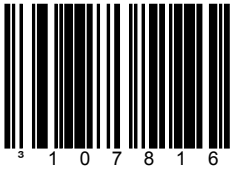


* Disable
Convert Telepen ^L to E



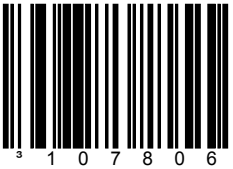
SECTION F **PLESSEY**

Transmit
UK Plessey Check Digit



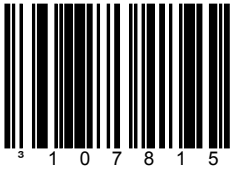
The scanner will transmit UK Plessey Check Digit characters when used with the Enable UK Plessey feature in Section A.

* Do Not Transmit
UK Plessey Check Digit

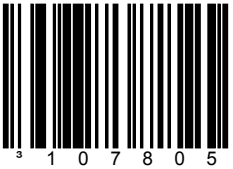


Will not transmit UK Plessey Check Digit characters.

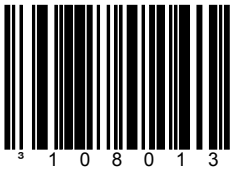
Enable
UK Plessey Special Format



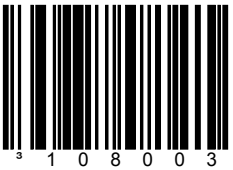
Disable
UK Plessey Special Format



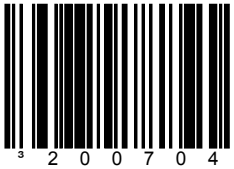
Handle Incorrect
UK Plessey Stop Character



* Normal UK Plessey Stop
Character Handling

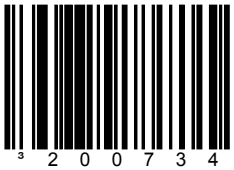


* No MSI Plessey Check Digit



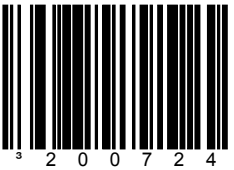
The scanner will not test MSI Plessey bar codes for a check digit.

Enable MSI Plessey MOD 10/10 Check Digit



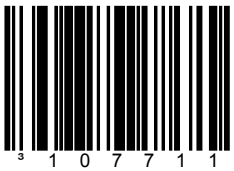
The scanner will test MSI Plessey bar codes for a double Modulo 10 check digit.

* Enable MSI Plessey MOD 10 Check Digit



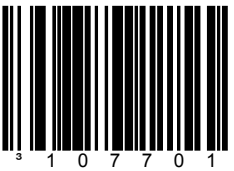
The scanner will test MSI Plessey bar codes for a single Modulo 10 check digit.

Transmit MSI Plessey Check Digit



This option works in conjunction with one or both of the Enabled MSI Plessey Mode options.

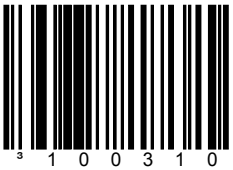
* Do Not Transmit MSI Plessey Check Digit



The scanner will not transmit MSI Plessey's check digit characters.

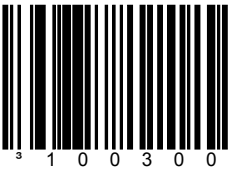
SECTION F **2 OF 5**

Enable Mod 10
Check on ITF



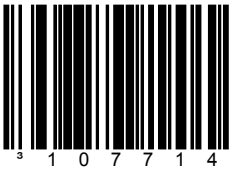
The scanner will only scan Interleaved 2 of 5 (ITF) bar codes that have a Modulo 10 check digit.

* Disable MOD 10
Check on ITF



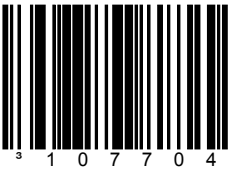
The scanner will not test Interleaved 2 of 5 (ITF) bar codes for a Modulo 10 check digit.

Transmit Mod 10
Check Digit on ITF



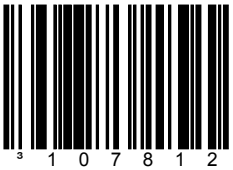
The scanner transmits Interleaved 2 of 5 (ITF) Mod 10 check character.

* Do Not Transmit Mod 10
Check Digit on ITF

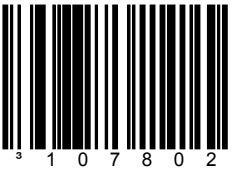


The scanner will not transmit Interleaved 2 of 5 (ITF) Mod 10 check digit character. This feature works in conjunction with Mod 10 check on ITF. Both must be enabled for this feature to work.

Transmit Matrix 2 of 5
Check Digit



* Do Not Transmit
Matrix 2 of 5 Check Digit.



ENABLE RS-232 MODE

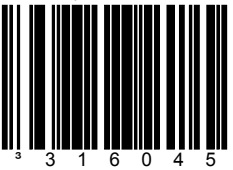
* Enable RS-232 Mode

When enabled the scanner will work with RS-232 ±12V serial output.

SECTION G — 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.

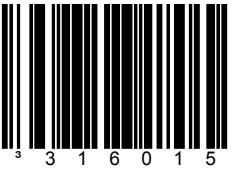
No Parity



Odd Parity

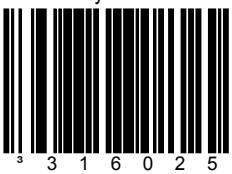
Select Odd Parity to set the parity bit to either 1 or 0 to ensure an odd number of bits are 1's.

* Space Parity



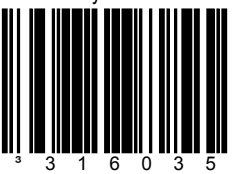
Select to set the parity bit always 0.

Even Parity



Select to set the parity bit to either 1 or 0 to ensure an even number of bits are 1's.

Mark Parity



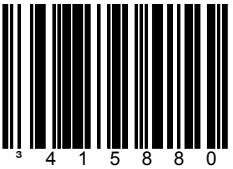
Select to set the parity bit always 1.

A “Baud” or “Baud Rate” is the speed at which data is transmitted. Select a Baud for the scanner that matches the host device.

115200 BAUD Rate

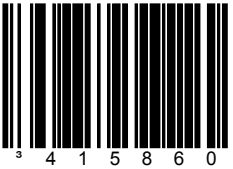
57600 BAUD Rate

38400 BAUD Rate



19200 BAUD Rate

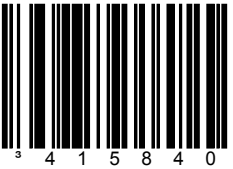
14400 BAUD Rate



SECTION G **BAUD RATES**

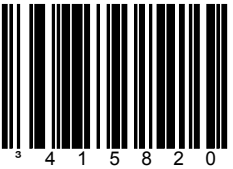
* 9600 BAUD Rate

4800 BAUD Rate



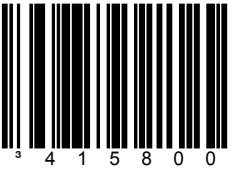
2400 BAUD Rate

1200 BAUD Rate

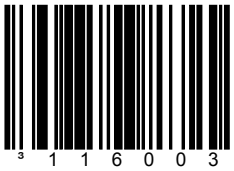


600 BAUD Rate

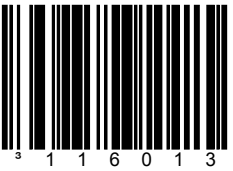
300 BAUD Rate



* 7 Data Bits

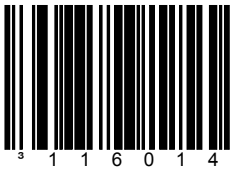


8 Data Bits

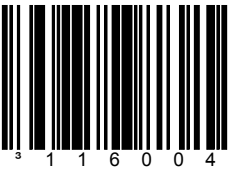


Number of data bits transmitted for each character.

1 Stop Bit

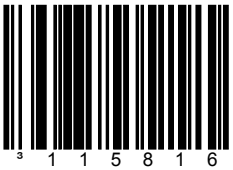


* 2 Stop Bits



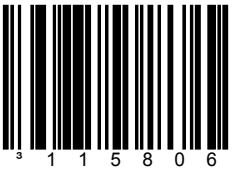
SECTION G HARDWARE HANDSHAKING

Enable RTS/CTS Handshaking



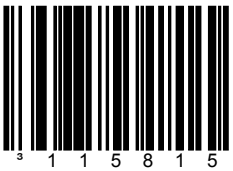
Output a **R**equest to **S**end (RTS) signal and wait for a **C**lear **T**o **S**end (CTS) signal before transmitting data.

* Disable RTS/CTS Handshaking



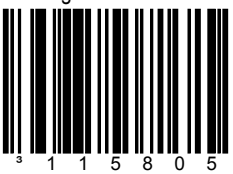
Do not use RTS/CTS handshaking.

* Character RTS/CTS



Activate/Deactivate RTS signal for each character.

Message RTS/CTS

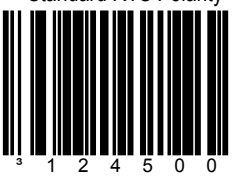


Activate RTS before sending the first character and leave it active until after the last character has been transmitted.

Invert RTS Polarity (RSV1)

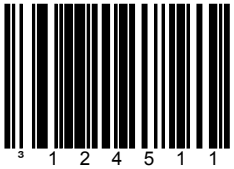
+12V = Inactive
-12V = Active

* Standard RTS Polarity



Use standard RTS polarity
-12V = Inactive
+12V = Active

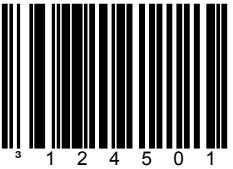
Invert CTS Polarity (RSV2)



+12V = Inactive, do not send

-12V = Active, OK to send

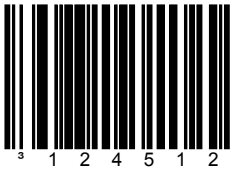
* Standard CTS Polarity



-12V = Inactive, do not send

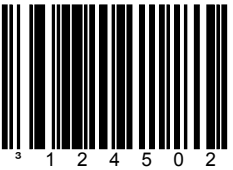
+12V = Active, OK to send

Activate RTS, Do Not wait for CTS (RSV3)



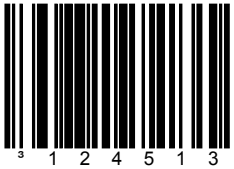
Activate RTS for transmission but do not wait for CTS to send.

* Activate RTS, Wait for CTS



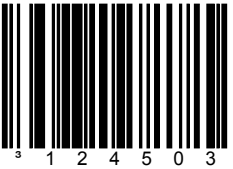
Wait for CTS after activating RTS.

Test CTS Not Present Before RTS (RSV4)



Do not activate RTS if CTS is already present.

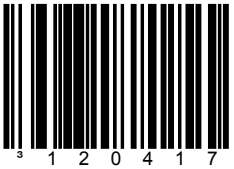
* Do Not Test for CTS Present Before RTS



Activate RTS without testing if CTS is already active.

SECTION G **HARDWARE HANDSHAKING**

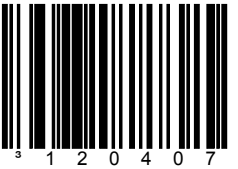
CTS Scan Transmit



The CTS line is used to allow a decoded bar code to be transmitted. Use reserved code 4 to ensure 1 bar code per CTS. This will prevent the scanner from gathering data until the CTS signal has been retracted.

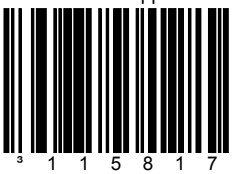
This feature is not available with all models.

* No CTS Scan Transmit



Do not support CTS scan transmit.

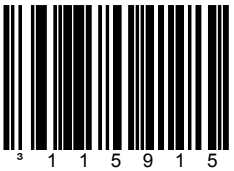
Enable DTR Support



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

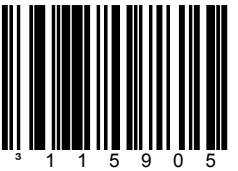
* Disable DTR Support

Enable
RTS Counter Toggle

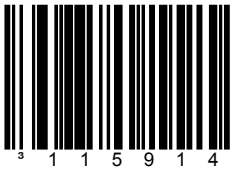


The scanner will toggle the RTS line on a good decode.

* Disable
RTS Counter Toggle

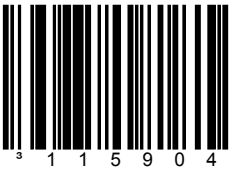


Enable XON/XOFF Handshaking



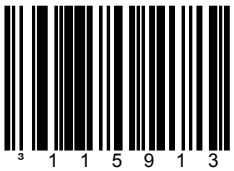
The scanner will stop transmission whenever an XOFF (ASCII 13H) is received. Transmission will resume after an XON (ASCII 11H) is received.

* Disable XON/XOFF Handshaking



The scanner will not test for XON/XOFF.

Enable ACK/NAK

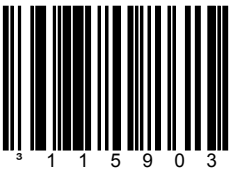


After transmitting data, wait for an ACK (06H) or a NAK (15H) response from the host.

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.

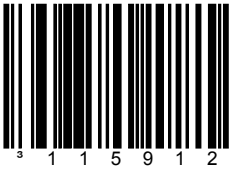
* Disable ACK/NAK



Do not support ACK/NAK handshaking.

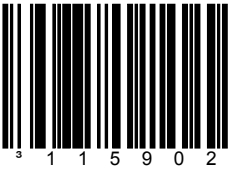
SECTION G — SOFTWARE HANDSHAKING

Enable O/N Handshaking

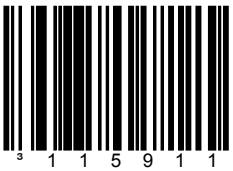


ACK/NAK handshaking (page G 9) must be enabled for this feature to work.

Disable O/N Handshaking

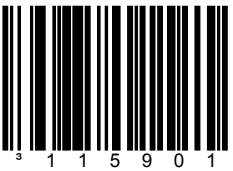


Support BEL/CAN in ACK/NAK



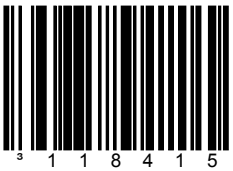
When BEL (07H) is received, the scanner beeps 3 times and exits the communications loop. If a CAN (18H) is received, then the scanner will exit the communications loop, silently.

* Ignore BEL/CAN in ACK/NAK



Ignore BEL/CAN characters in communication loop.

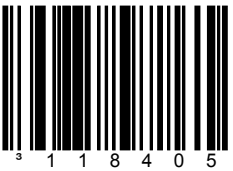
Enable Razz Command



When a z is received, the scanner will RAZZ once. Multiple razzes can be sounded if the character before the z is a number and is sent within 1 second of the z.

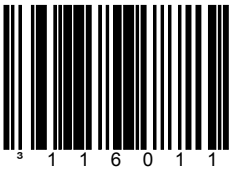
The normal BEL commands must be activated for feature.

Disable Razz Command



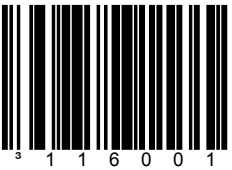
Ignore z characters in communication loop.

Enable XON/OFF
Scan Inhibit On



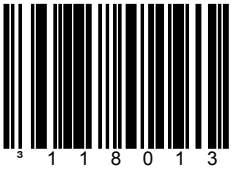
This feature is not available with all models.

* Disable XON/OFF
Scan Inhibit Off



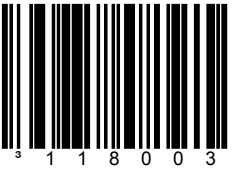
This feature is not available with all models.

Enable 5 Retries on
ACK/NAK Time Out



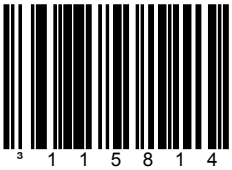
Allow up to 5 NAK retransmissions of the data before dropping out of the communications loop.

* Disable 5 Retries on
ACK/NAK Time Out

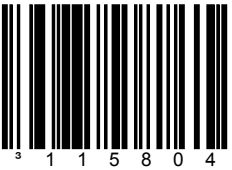


Do not limit retransmission to 5 NAK cycles.

Enable 5 NAK Retries

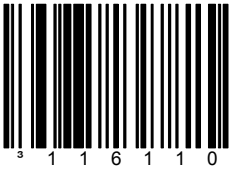


Disable 5 NAK Retries



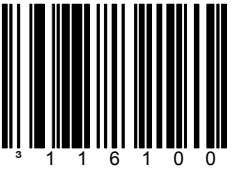
SECTION G **MISCELLANEOUS**

Enable French PC Term



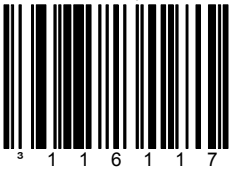
The scanner transmits PC type make/break scan codes instead of ASCII data characters. The scan codes match a WYSE French PC Terminal Emulation.

* Disable French PC Term



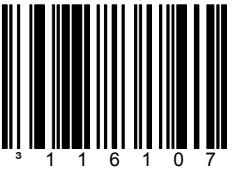
Do not transmit in French PC Term Mode.

Enable USA Wyse PC



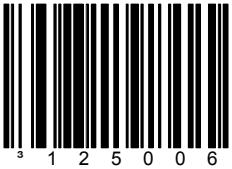
Enables USA Wyse PC style keyboard PCTERM mode.

Disable USA Wyse PC

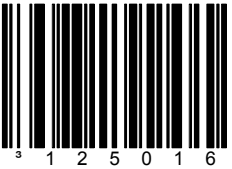


Disables USA Wyse PC style keyboard PCTERM mode.

* Enable Receive Data



Disable Receive Data



Disable receive port after 5 seconds.

Load Keyboard Wedge Defaults

Loads default settings for keyboard wedge mode.

Enable Stand-Alone Keyboard Emulation

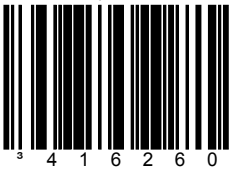
Use this with special stand-alone models that are not cabled for an external keyboard. When the Stand-Alone Mode is enabled, the scanner will send keyboard "power on" information and configure hardware to simulate a constant keyboard connection.

* 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.

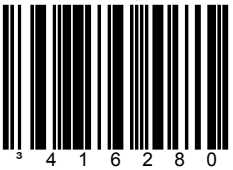
SECTION H **COUNTRY/SCAN CODE TABLE SELECTS**

* USA Keyboard



Enable USA Keyboard.

Switzerland Keyboard

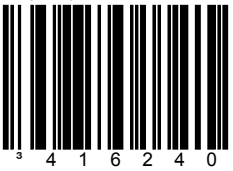


Enable Swiss Keyboard

Spain Keyboard

Enable Spanish Keyboard

Italy Keyboard

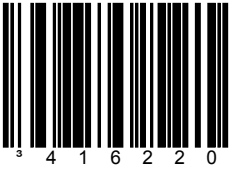


Enable Italian Keyboard

Germany Keyboard

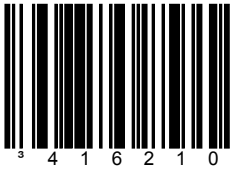
Enable German Keyboard

France Keyboard



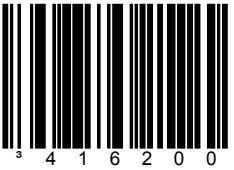
Enable French Keyboard

UK Keyboard



Enable UK Keyboard.

Belgium Keyboard

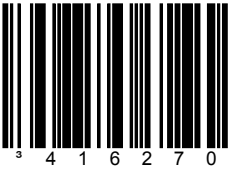


Enable Belgium Keyboard

Japanese Keyboard

Enable Japanese Keyboard

IBM 4700 Financial Keyboard



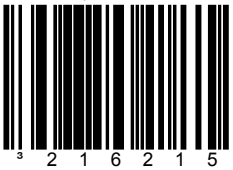
Enable IBM 4700 Financial Keyboard

Sweden/Finland Keyboard

Enable Sweden/Finland Keyboard

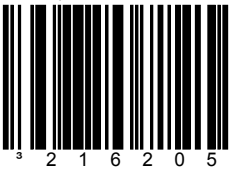
SECTION H **KEYBOARD/SYSTEM TYPE**

* AT Keyboard



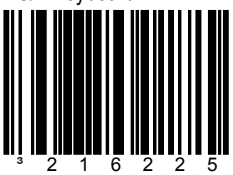
If using an AT computer, scan the above bar code. (Includes IBM PS/2 and compatible models 50, 55, 60, 80)

XT Keyboard



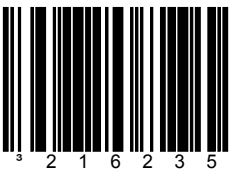
If using an XT computer, scan the above bar code.

PS/2 Keyboard



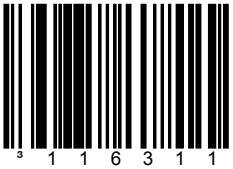
Scan the above code for PS/2 computer. (Includes IBM PC and compatible models 30, 70 and 8556)

Terminal KB Emulation



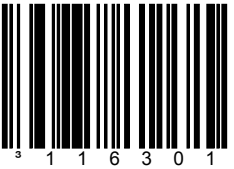
Scan the above code to enable terminal keyboard emulation mode.

Transmit
Make Code Only



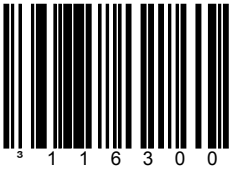
Do not scan unless instructed by a Metrologic representative.

* Transmit
Make/Break Code



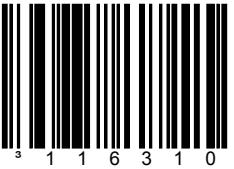
Do not scan unless instructed by a Metrologic representative.

Do Not Transmit
F0H Break Code



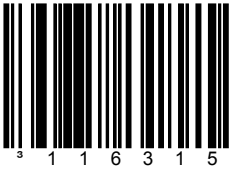
The scanner will not transmit the F0H in the break-code sequence.

* Transmit
F0H Break Code



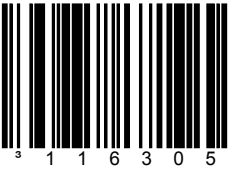
The scanner will transmit the F0H in the break-code sequence.

Transmit Cleanup Bit



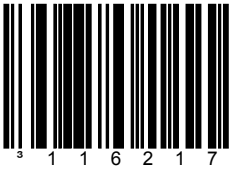
Use for certain NEC computers.

* Do Not Transmit
Cleanup Bit



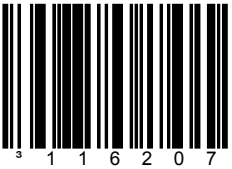
SECTION H — SPECIAL KEYBOARD FEATURES

Enable Alt Mode



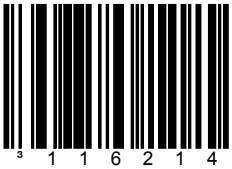
The scanner will duplicate the following keyboard sequence:
Hold down ALT key and Type decimal number that corresponds to the appropriate character.

* Disable Alt Mode



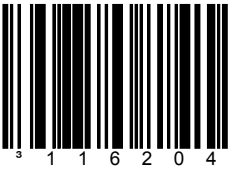
Caution: If the host software application uses the right ALT key as a "Hot" key, ALT mode must be disabled.

Enable Auto Detect Mode (AT/PS2)



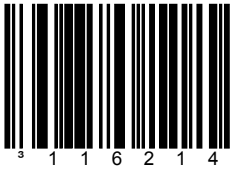
Automatically detects caps lock status.

* Disable Auto Detect Mode (AT/PS2)

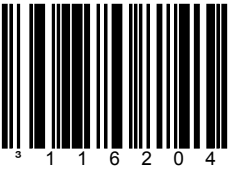


The Auto Detect Caps Lock feature is not supported.

Enable Caps Lock (XT)

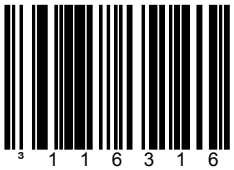


* Disable Caps Lock (XT)



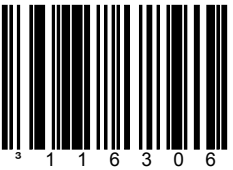
The Caps Lock feature is not supported.

Send Numbers as Keypad Data

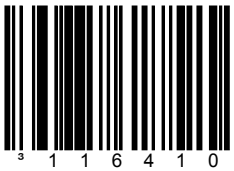


All data is sent as if it has been entered on a keypad.

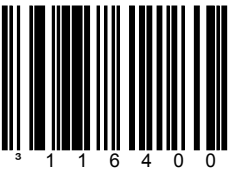
* Send Numbers as Normal Data



Enable Reserved Feature

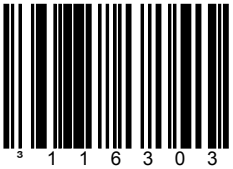


* Disable Reserved Feature



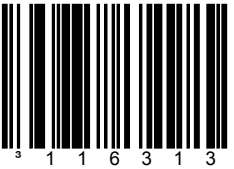
SECTION H **SPECIAL KEYBOARD FEATURES**

* Use Extended ASCII to Send Extended Key Codes



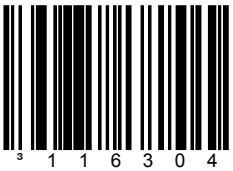
Use extended ASCII characters to send PC keyboard keys such as F1, F2, etc…See section M for details.

Use Extended ASCII Characters as Extended ASCII

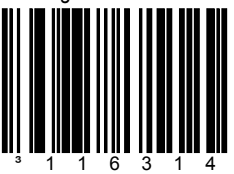


Transmit extended ASCII codes via ALT mode.

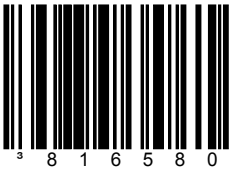
* Character KB Inhibit



Message KB Inhibit



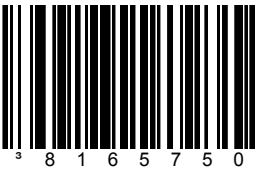
Inter-Scan Code Delay
800 Microseconds



The 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.

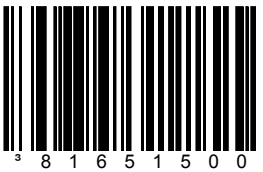
Inter-Scan Code Delay
7.5 msec



The 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.

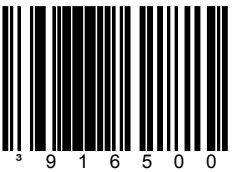
Inter-Scan Code Delay
15 msec



The 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.

~ Variable Inter-Scan Code Delay msec



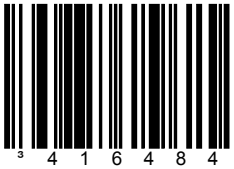
Refer to the Multi-Code Configuration method on page x.

SECTION H **CONTROL SETS**

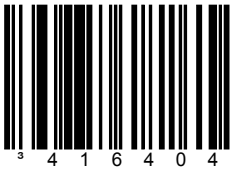
In general, standard bar code symbologies will only encode the ASCII character set. Function keys, arrow keys and many other “extended” keys on an IBM compatible keyboard do not translate to ASCII characters. One method of “bar coding” the extended keys is to substitute the extended key codes when a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

CONTROL SET #1

Enable Control Set #1



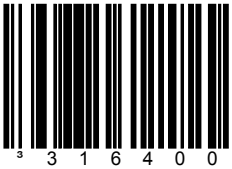
Disable Control Set #1



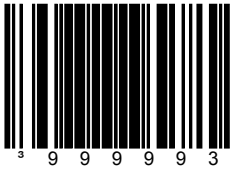
ASCII (HEX)	ASCII Control	Extended Key
00H	Null	Numeric Keypad
01H	SOH	Num Lock
02H	STX	Down
03H	ETX	Numeric Keypad
04H	EOT	Insert
05H	ENQ	Delete
06H	ACK	System Request
07H	BEL	←
08H	BS	→
09H	TAB	Tab
0AH	LF	Caps Lock
0BH	VT	Shift Tab
0CH	FF	Alt
0DH	CR	Enter
0EH	SO	Control
0FH	SI	Up Arrow
10H	DLE	F1
11H	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

SECTION H 3151 TERMINAL KEYBOARD

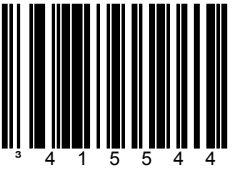
* 3151 Terminal Keyboard



Load OCIA Defaults



Enable OCIA

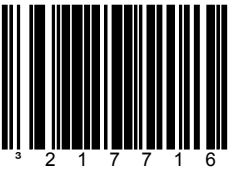


Select this option if communications require OCIA (**O**ptically **C**oupled **I**nterface **A**dapter).

This serial interface is clocked by the host.

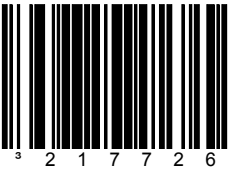
Enable DTS/Siemens

* Enable DTS/Nixdorf



Enable NCR-S

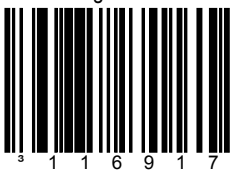
Enable NCR-F



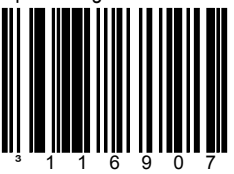
Enable Light Pen Mode

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.

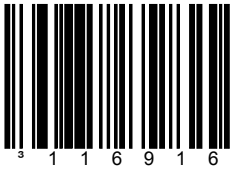
* Bars High



Spaces High

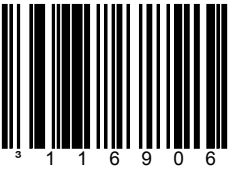


Transmit Code 39



All bar codes will be decoded then transmitted as code 39 bar codes.

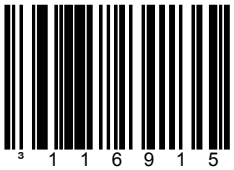
* Transmit as Scanned



All bar codes will be decoded and transmitted in their original symbology.

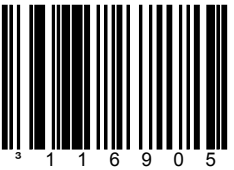
SECTION J **LIGHT PEN/SET NARROW ELEMENT BORDER**

Poll Light Pen Source



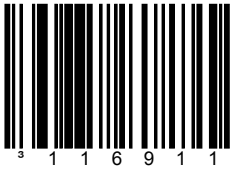
The scanner waits for an active source voltage before transmitting data.

* Do Not
Poll Light Pen Source



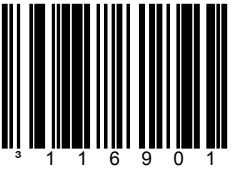
The scanner will not wait for an active source voltage before transmitting data.

Enable Light Pen
Extra Toggle

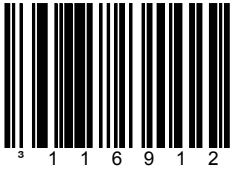


The scanner beeps and toggles the light pen data line with an extra data pulse to condition the decoder.

* Disable Light Pen
Extra Toggle

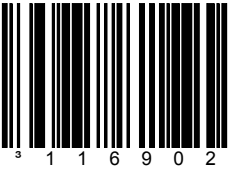


10x Narrow
Element Border



This bar code allows the transmission of Light Pen/Wand emulation using a 10x border.

* 50x Narrow
Element Border



This bar code allows the transmission of Light Pen/Wand emulation using a 50x border.

SECTION J **SET NARROW ELEMENT WIDTH /LASER EMULATION**

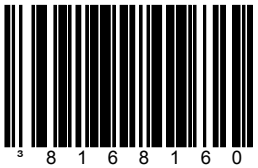
* 1 ms
Narrow Element Width

This option allows the transmission of Light/Pen Wand emulation a 1 ms narrow element width.

60 µs
Narrow Element Width

This transmits at 60 µs narrow element width.

100 µs
Narrow Element Width



This transmits at 100 µs narrow element width.

500 µs
Narrow Element Width

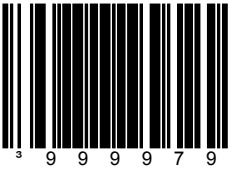
This transmits at 500 µs narrow element width.

~ Variable
Narrow Element Width †

Sets the minimum x-dimension in 6 µs increments. Scan this code followed by a 3 digit code byte sequence found in Section M. †

† Refer to the Multi-Code Method on page x.

Laser Emulation



Load
IBM 46xx Defaults

Load default format settings for IBM 46xx systems.

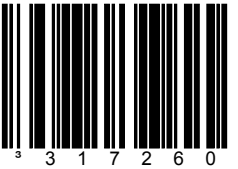
Enable IBM 46xx
Communication

Select this option for IBM 46xx SIOC/RS485 communication.

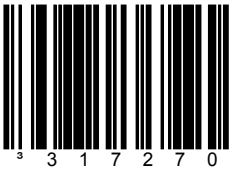
Not all scanners support this interface. The correct interface board is required.

IBM Port 17B
3687-2 In Counter

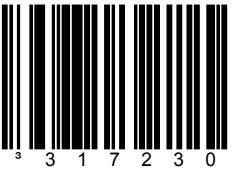
IBM Port 5B
1520 HH Laser



* IBM Port 9B
4500 CCD HH BCR1

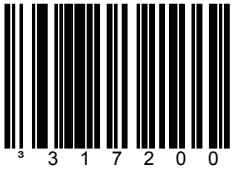


IBM Port 9B
4501 CCD HH BCR2

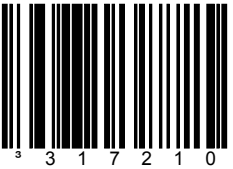


SECTION K **IBM RESERVE CODES**

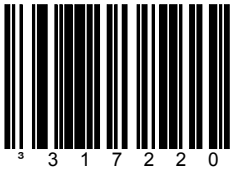
IBM Reserve #1



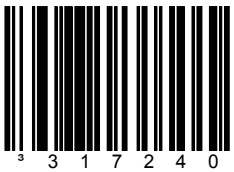
IBM Reserve #2



IBM Reserve #3



IBM Reserve #5



User configurable prefixes, symbol length and other features that use these code bytes for configuration, require that the scanner be in configuration mode. Scan the Enter/Exit Configuration Mode bar code before starting the configuration cycle. Single code configuration mode does not work for these multi-code sequences.

Enter/Exit Configuration Mode

EXAMPLE

User configurable prefix/suffix characters (Section E) can be saved into the scanner by scanning the 3 digit decimal equivalent of the ASCII character into the appropriate character location with the code byte bar codes.

To add an asterisk (*) as a prefix scan the following bar codes in order:

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)

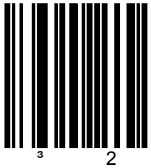
SECTION M

CODE BYTES 0-5

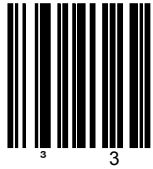
Code Byte 0

Code Byte 1

Code Byte 2



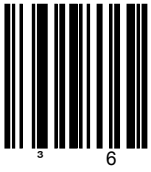
Code Byte 3



Code Byte 4

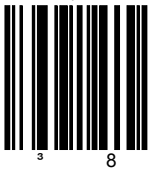
Code Byte 5

Code Byte 6

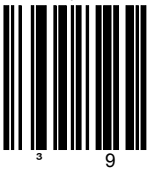


Code Byte 7

Code Byte 8



Code Byte 9



SECTION M **RESERVED CODES**

~ Enable Reserved Code

Contact a Metrologic customer service representative for additional details on this feature.

~ Disable Reserved Code

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
098	Standard 2 of 5
097	Airline (13 digits)
099	TRI-OPTIC

SECTION M

ASCII REFERENCE TABLE

HEX VALUE	DECIMAL VALUE/ CODE BYTE VALUE	CHARACTER	CONTROL KEYBOARD EQUIVALENT
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

HEX VALUE	DECIMAL VALUE/ CODE BYTE VALUE	CHARACTER	CONTROL KEYBOARD EQUIVALENT
1B	027	ESC	[
1C	028	FS	\
1D	029	GS	^
1E	030	RS	_
1F	031	US	
20	032	SP	space, blank
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	

SECTION M **ASCII REFERENCE TABLE**

HEX VALUE	DECIMAL VALUE/ CODE BYTE VALUE	CHARACTER	CONTROL KEYBOARD EQUIVALENT
36	054	6	
37	055	7	
38	056	8	
39	057	9	
3A	058	:	
3B	059	;	
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	

HEX VALUE	DECIMAL VALUE/ CODE BYTE VALUE	CHARACTER	CONTROL KEYBOARD EQUIVALENT
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	
5A	090	Z	
5B	091	[	shift K
5C	092	\	shift L
5D	093	]	shift M
5E	094	^	↑, shift N
5F	095	_	←, shift 0, 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	

SECTION M **ASCII REFERENCE TABLE**

HEX VALUE	DECIMAL VALUE/ CODE BYTE VALUE	CHARACTER	CONTROL KEYBOARD EQUIVALENT
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	
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

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
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

SECTION M EXTENDED KEY CODE REFERENCE TABLE

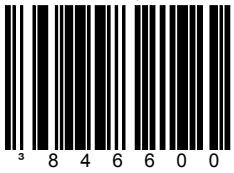
KEY	AT SCAN CODE	PS2 SCAN CODE	3151	PREFIX/SUFFIX VALUE HEX = DECIMAL
Numeric -	7BH	4AH	7CH	9DH = 157
Numeric *	7CH	37H	00H	9EH = 158
Caps Lock	58H	3AH	14H	9FH = 159
Num Lock	77H	45H	00H	A0H = 160
Left ALT	11H	38H	00H	A1H = 161
Left CTRL	14H	1DH	11H	A2H = 162
Left Shift	12H	2AH	12H	A3H = 163
Right Shift	59H	36H	59H	A4H = 164
Print Screen	Multiple	00H	00H	A5H = 165
Tab	0DH	0FH	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>

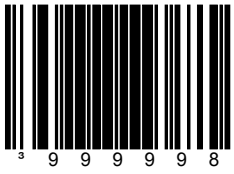
Metrologic manufactures several scanners for OEM applications. These scanners may use a different set of defaults than the standard Metrologic factory defaults. Scanning the following bar codes will restore the default factory settings.

Enable Factory Defaults



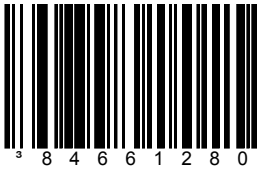
Scan this code followed by the "Recall Defaults" code to enable and load Metrologic factory defaults.

Recall Defaults



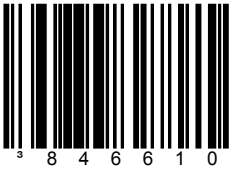
SECTION N **CUSTOM DEFAULTS**

Ruby Verifone Defaults



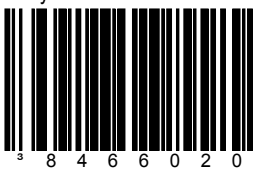
Scan this code followed by the "Recall Defaults" code to enable and load Ruby Verifone Defaults.

RCH



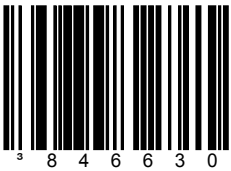
Scan this code followed by the "Recall Defaults" code to enable and load RCH Defaults.

Sanyo



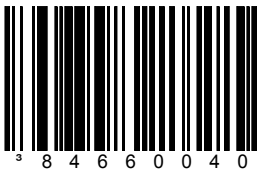
Scan this code followed by the "Recall Defaults" code to enable and load Sanyo Defaults.

Gilbarco



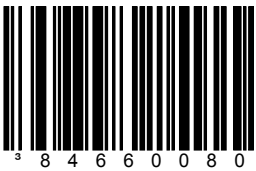
Scan this code followed by the "Recall Defaults" code to enable and load Gilbarco Defaults.

ALT Defaults



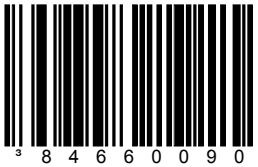
Scan this code followed by the "Recall Defaults" code to enable and load ALT Defaults.

MS6750 Defaults



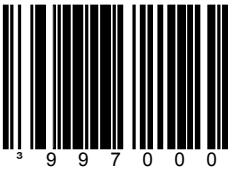
Scan this code followed by the "Recall Defaults" code to enable and load MS6750 Defaults.

German Post Defaults

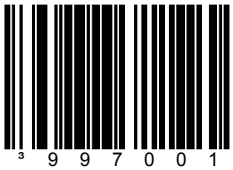


Scan this code followed by the “Recall Defaults” code to enable and load German Post Defaults.

Custom Keyboard FR1



Custom Terminal FR1



SECTION N 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).

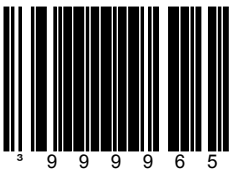
2. Transmit <STX>999998<ETX> through the Serial Port. This is the Recall Default bar code in the MetroSelect guide. The scanner will respond with an ACK (06 Hex).

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).

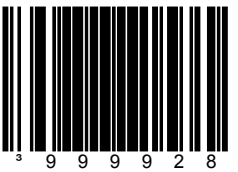
SOFTWARE/SERIAL NUMBER

Software Number



The scanner will transmit its software revision.

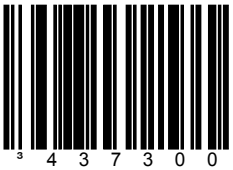
Scanner Information



This barcode will transmit the "main" & "interface coprocessor" software numbers as well as the scanner's serial number.

The data is output as barcode (formatted) data (ie. 15*xxx*/15*xxx*/9876543210, where *x* represents any non-numbered value).

* Disable AUX Port



AUX PORT AND SECONDARY DEVICE DATA FORMATS

The following section includes features that are not available with all Metrologic scanner models. Please contact a customer service representative for additional information and technical assistance.

When using a Metrologic device as a secondary:

Follow **Step 1** to configure the *auxiliary port* to accept a Metrologic scanner as the *secondary* scanner. Then follow **Step 2** to configure the *secondary* scanner to match the auxiliary port's data format.

If the secondary scanner is <u>not</u> a Metrologic scanner go to page 3 and follow the instructions under "When using a non-Metrologic RS-232 Device as a secondary".

The auxiliary input port's data format must match the main output format of the secondary scanner.

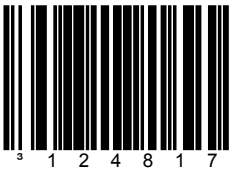
Step 1: Scan the following bar code to enable the *auxiliary port* on the *primary* scanner.

AUX Port Data Format

SECTION O **AUX PORT AND SECONDARY DEVICE DATA FORMATS**

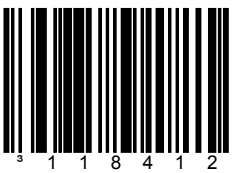
Step 2: Then scan the following bar codes, in order, to configure the *secondary* scanner.

1. Enable AUX Output

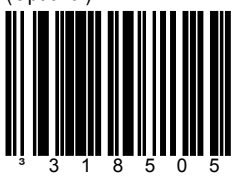


2. Secondary Scanner Data Format

3. Enable Comm Timeouts



4. Turn OFF Auxiliary Scanner's Beeper (Optional)



SECTION O **AUX PORT AND SECONDARY DEVICE DATA FORMATS**

The following section includes features that are not available with all Metrologic scanner models. Please contact a customer service representative for additional information and technical assistance.

When using a non-Metrologic RS-232 device as a secondary:

Scan the following bar code to enable the auxiliary port on the *primary* scanner.

AUX Port General RS-232 Format

The *auxiliary* input port's data format must match the main output format of the secondary device. The *secondary* device must be capable of RTS/CTS handshaking and have a carriage return (ASCII 0DH) terminator on the data.

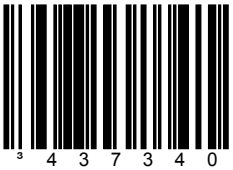
The default settings for the *AUX Port General RS-232 Format* are:

- 38400 baud
- 7 data bits
- 2 stop bits
- Space parity

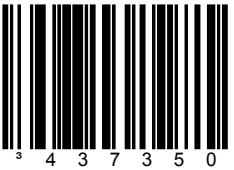
SECTION O **ADDITIONAL AUXILIARY PORT DATA FORMATS**

The auxiliary input port's data format must match the main output format of the secondary device.

Enable AUX Port with UPC Supplemental Data Format

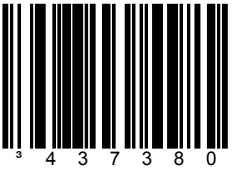


Enable AUX Port with Code Select Data Format



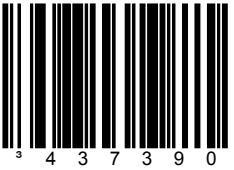
Enable AUX Port with Tech 7, 8 Data Format

Enable AUX Port with Reserved 2 Data Format



Enable AUX Port with Reserved 3 Data Format

Enable AUX Port with Reserved 1 Data Format

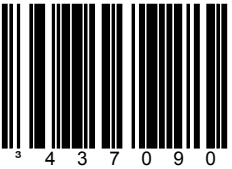


Enable AUX Port with Stratos
Decode Data Format

SECTION O **AUXILIARY PORT BAUD RATES**

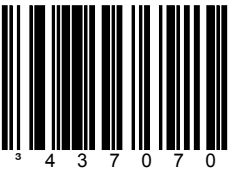
AUX 115200 Baud Rate

AUX 57600 Baud Rate



AUX 38400 Baud Rate

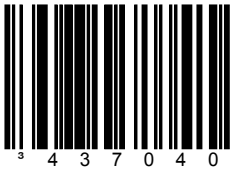
AUX 19200 Baud Rate



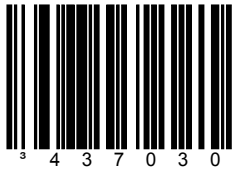
AUX 14400 Baud Rate

AUX 9600 Baud Rate

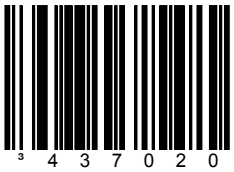
AUX 4800 Baud Rate



AUX 2400 Baud Rate



AUX 1200 Baud Rate

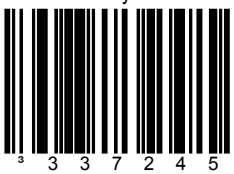


AUX 600 Baud Rate

AUX 300 Baud Rate

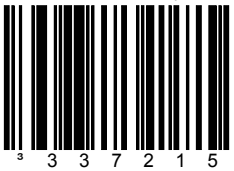
SECTION O **AUXILIARY PORT PARITY**

AUX No Parity

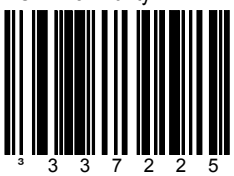


AUX Mark Parity

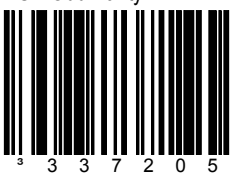
* AUX Space Parity



AUX Even Parity

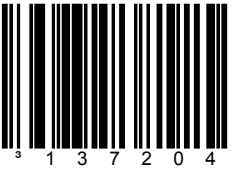


AUX Odd Parity



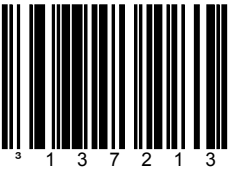
AUX 1 Stop Bit

* AUX 2 Stop Bits



* AUX 7 Data Bits

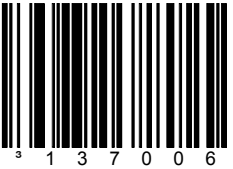
AUX 8 Data Bits



SECTION O **AUXILIARY RTS/CTS AND MODE 7**

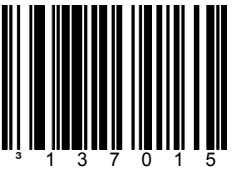
* Enable AUX RTS/CTS Handshaking

Disable AUX RTS/CTS Handshaking

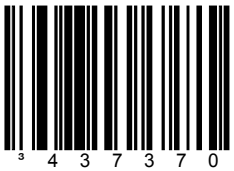


Message AUX RTS/CTS

* Character AUX RTS/CTS

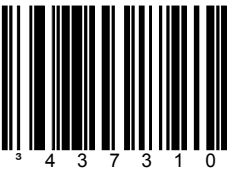


Enable AUX Port Mode 7



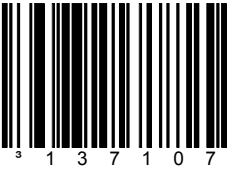
Mode 7 enables reception of prefix and suffix codes when AUX port RTS/CTS handshaking is disabled.

Disable AUX Port Mode 7

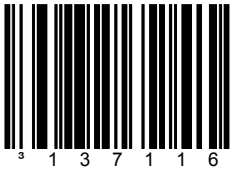


Enable
AUX "D/E" Commands

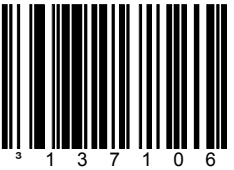
* Disable
AUX "D/E" Commands



Enable AUX "F/L"
Commands

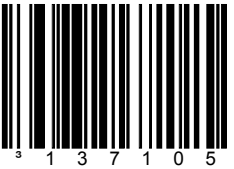


* Disable AUX "F/L"
Commands



Enable AUX
"M/O" Commands

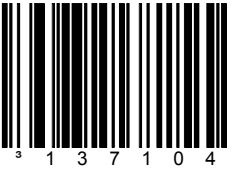
* Disable AUX
"M/O" Commands



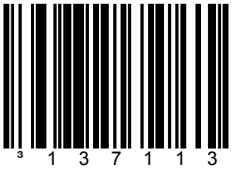
SECTION O **AUXILIARY XON/XOFF AND ACK/NAK**

* Enable AUX XON/XOFF Handshaking

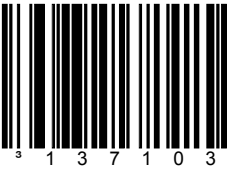
Disable AUX XON/XOFF Handshaking



* Enable AUX ACK/NAK Commands



Disable AUX ACK/NAK Commands



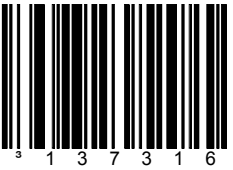
AUXILIARY CTS AND RTS POLARITY

* Normal
AUX CTS Polarity

Flip
AUX CTS Polarity

* Normal
AUX RTS Polarity

Flip
AUX RTS Polarity



AUXILIARY SAME SYMBOL TIMEOUT

* AUX has
Same Symbol Timeout

This feature skips the same symbol timeout in the master when the auxiliary scanner scans (or repeats) faster than the same symbol timeout in the master scanner.

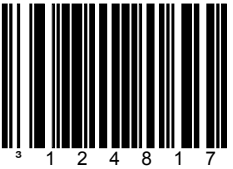
No AUX
Same Symbol Timeout

Metrologic recommends turning off the auxiliary scanner's beep if the *AUX Same Symbol Timeout* feature is disabled.

SECTION O **MAIN OUTPUT PORT AUXILIARY DATA FORMATS**

When a scanner is used as a secondary scanner to another scanner's auxiliary input, the output data can be in one of the following formats.

Reserve Code 32



This is a quick method for setting reserve Code 32 in the secondary scanner using HoloTrak Decode Data Format.

This code should not be used for the MS6720.

* HoloTrak Decode Output AUX Data Format

UPC Supplemental Output AUX Data Format

Stratos Decode Output AUX Data Format

Code Select Output AUX Data Format

TECH 7 & 8 Output AUX Data Format

Reserved 1 Output AUX Data Format

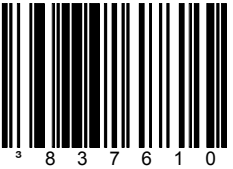
Reserved 2 Output AUX Data Format

Reserved 3 Output AUX Data Format

SECTION O — INTER-CHARACTER DELAYS

No AUX Port
Inter-Character Delays

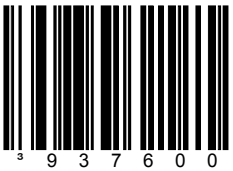
* 1 msec AUX Port
Inter-Character Delay



10 msec AUX Port
Inter-Character Delay

25 msec AUX Port
Inter-Character Delay

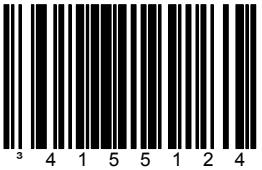
~ Variable AUX Port
Inter-Character Delay



The Delay between characters being sent out of the auxiliary port can be set in 1 millisecond increments by scanning the *Variable AUX Port Inter-character Delay* barcode followed by a 3 character sequence of code bytes that range from 001 to 255 milliseconds.

Refer to the *Multi-Code Configuration Method* on page x.

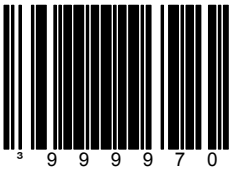
Enable Full Speed USB



Adds the ability to encode scanner serial number in NOVRAM.

Full Speed USB Defaults

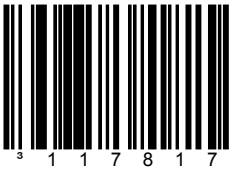
Load Integrated Full Speed USB Defaults



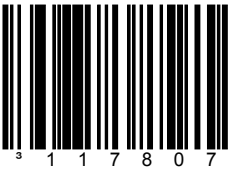
SECTION P — FULL SPEED USB

The following codes can be used if the *Full Speed USB Default* bar code has **not** been scanned.

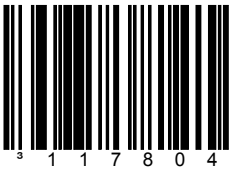
Enable USB IBM ID



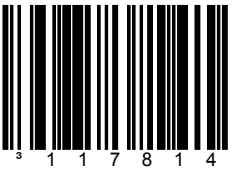
* Disable USB IBM ID



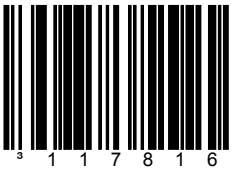
* Enhanced Code ID's



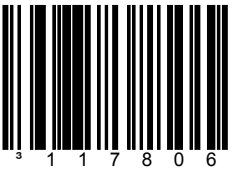
* Legacy Code IDs



RS232 of USB Out

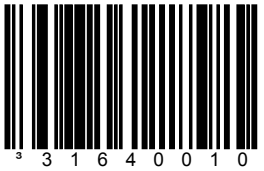


* Normal USB Out

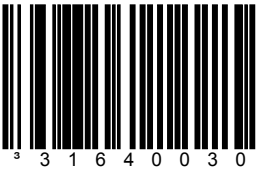


The following codes can be used if the *Full Speed USB Default* bar code has **not** been scanned.

Scanner 4A00h Flatbed



Scanner 4B00h Handheld

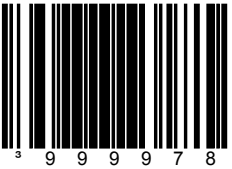


4A00h/6E00h
Tabletop Scanner/Scale

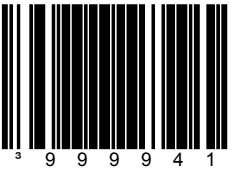
SECTION P — LOW SPEED USB

Enable
Low Speed USB

Load Low Speed
External USB Defaults

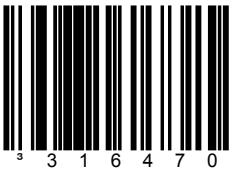


Load Low Speed
Internal USB Defaults



The following codes only apply to scanners with internal Low-Speed USB interfaces and specific software versions. Please contact a Metrologic representative for additional information on the use and restrictions of these bar codes.

USB
Serial Emulation Mode

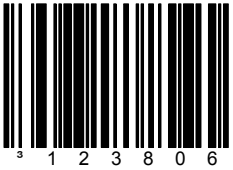


USB
Keyboard Emulation Mode

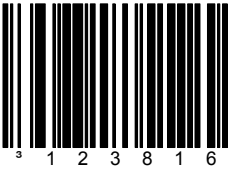
The following bar codes are specific to the IS3480, MS3580 and the MS3780 unless otherwise noted.

Button Modes

* Button Click Pattern Switching Mode

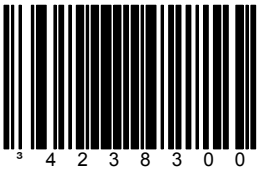


Button Hold Pattern Switching Mode

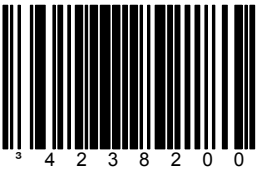


Button Click Delay

15 Second Time Out



10 Second Time Out



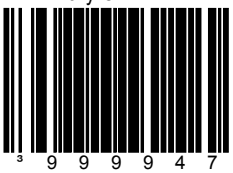
* 5 Second Time Out

SECTION R **IS3480 / MS3580 / MS3780**

The following bar codes are specific to the IS3480, MS3580 and the MS3780 unless otherwise noted.

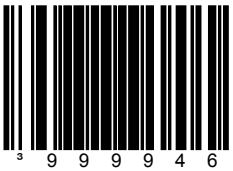
Primary Scan Patterns

* Primary Omni



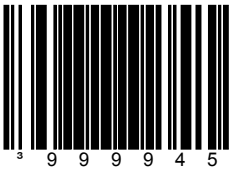
This bar code sets the **primary** pattern to all scan lines on for omnidirectional reading.

Primary Raster



This bar code sets the **primary** pattern to horizontal raster.

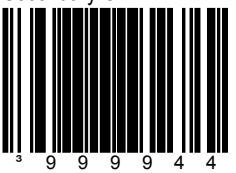
Primary Single-Line



This bar code sets the **primary** pattern to single-line for menu reading.

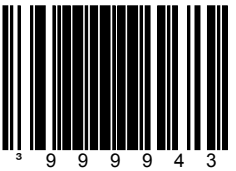
Secondary Scan Patterns

Secondary Omni



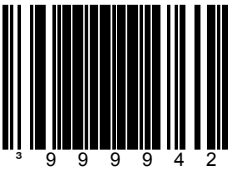
This bar code sets the **secondary** pattern to all scan lines on for omnidirectional reading.

Secondary Raster



This bar code sets the **secondary** pattern to horizontal raster.

Secondary Single-Line

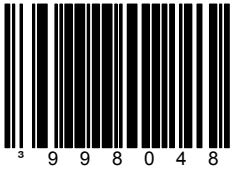


This bar code sets the **secondary** pattern to single-line for menu reading.

The following bar codes are specific to the IS3480, MS3580 and the MS3780 unless otherwise noted.

Sweet Spot Mode

Enable Sweet Spot Mode



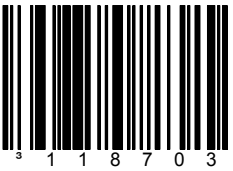
The sweet spot mode is used to determine where the maximum read rate point or “sweet spot” is located for a specific bar code type. Refer to the IS3480 Installation and User’s Guide (MLPN 00-02026) for a complete description of the sweet spot mode.

This feature is not available with the MS3580 or the MS3780.

CodeGate® (IS3480 / MS3580)

* Enable CodeGate

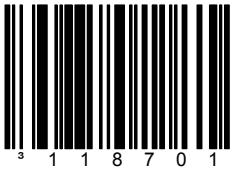
Disable CodeGate



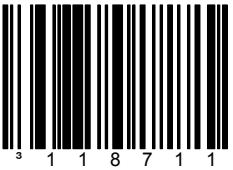
This barcode is not for use with the MS3780. Please see page R5 for CodeGate options specific to the MS3780.

Depth of Field

* Normal Depth of Field



Reduced Depth of Field

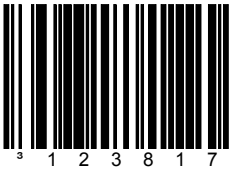


SECTION R **IS3480 / MS3580 / MS3780**

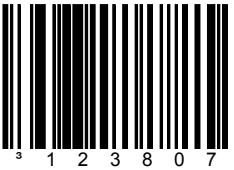
The following bar codes are specific to the IS3480, MS3580 and the MS3780 unless otherwise noted.

IR Activation

IR Activation



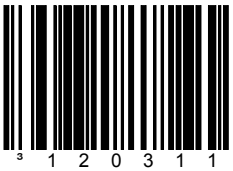
* Disable IR Activation



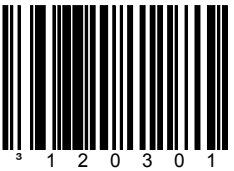
TTL RS232

The following bar codes are only valid for the TTL RS232 Quantum series (IS/MS3x80-**102**).

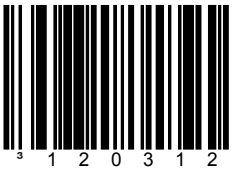
Enable TTL RS232



Disable TTL RS232

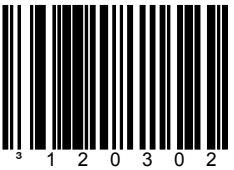


Invert TTL RxD and TxD



The TTL RxD and TxD pins idle at 0V

Std. TTL RxD and TxD

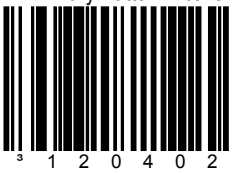


The TTL RxD and TxD pins idle at +5V

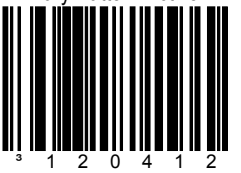
The following bar codes are specific to the MS3780 unless otherwise noted.

CodeGate (MS3780)

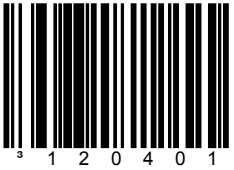
* Enable CodeGate
Out-of-Stand,
Primary Pattern Active



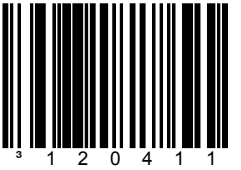
Disable CodeGate
Out-of Stand,
Primary Pattern Active



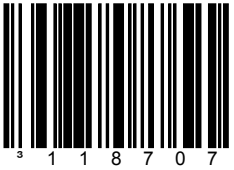
* Enable CodeGate
Out-of-Stand,
Secondary Pattern Active



Disable CodeGate
Out-of Stand,
Secondary Pattern Active



* Enable CodeGate
In-Stand



Disable CodeGate
In-Stand

Worldwide Headquarters

Metrologic Instruments, Inc.
90 Coles Road ▪ Blackwood, NJ 08012-4683 ▪ Email: info@metrologic.com
Tel: 856-228-8100 ▪ Fax: 856-228-6673 (Sales) ▪ Fax: 856-228-1879 (Marketing) ▪ Fax: 856-228-0653 (Legal/Finance)

Metrologic Companies

Adaptive Optics Associates (AOA)
Tel: 617-806-1400
Fax: 617-806-1899
Email: info@aoainc.com

Omniplanar
Tel: 856.537.6100
Fax: 856.537.6116
Email: info@omniplanar.com

Metrologic - The Americas

Metrologic The Americas
Tel: 1.856.537.6400
Fax: 1.856.537.6474
Email: info@us.metrologic.com

Metrologic Canada
Tel: 416.752.7190
Fax: 416.752.8060
Email: info@ca.metrologic.com

Metrologic Mexico, S.A. DE C.V.
Tel: 55.5365.6247
Fax: 55.5362.2544
Email: info@mx.metrologic.com

Metrologic do Brasil Ltda.
Tel: 55.11.5182.7273
Fax: 55.11.5182.7198
Email: info@sa.metrologic.com

Metrologic South America
Tel: 239.642.1958
Fax: 239.642.1959
Email: info@sa.metrologic.com

Metrologic GmbH

Metrologic Instruments UK Limited
Tel: +44 (0) 1256 365900
Fax: +44 (0) 1256 365955
Email: info@uk.metrologic.com

Metrologic Instruments GmbH
Tel: 49-89-89019-0
Fax: 49-89-89019-200
Email:
info@europe.metrologic.com

Metrologic Eria Iberica, SL
Tel: +34 913 272 400
Fax: +34 913 273 829
Email: info@es.metrologic.com

Metrologic Instruments Italia
Tel: +39 0 57 6511978 or +39 051 651 1978
Fax: +39 0 51 6521337
Email: info@it.metrologic.com

Metrologic Eria France SA
Tel: +33 (0) 1 48.63.78.78
Fax: +33 (0) 1 48.63.24.94
Email: info@fr.metrologic.com

Metrologic Instruments Poland
Tel: +48 (22) 545 04 30
Fax: +48 (22) 545 04 31
Email: info@pl.metrologic.com

Metrologic Russia
Tel: +7 095 730 7424
Fax: +7 095 730 7425
Email: info@ru.metrologic.com

Metrologic Asia (Pte) Ltd

Metrologic Asia (Pte) Ltd
Tel : (65) 6842-7155
Fax : (65) 6842-7166
Email: info@sg.metrologic.com

MTLG Auto ID Instruments (Shanghai) Co.,Ltd
Tel: 86-21-58692780
Fax: 86-21-58692782
Email: info@cn.metrologic.com

Suzhou Sales Office
Tel: 86-512-67622550
Fax: 86-512-67622560
Email: info@cn.metrologic.com

Guangzhou Sales Office
Tel: 86-20-38823476
Fax: 86-20-38823477
Email: info@cn.metrologic.com

Chengdu Sales Office
Tel/Fax: 86 28 86200109
Email: info@cn.metrologic.com

Beijing Sales Office
Tel/Fax: 86 10 82253472
Email: info@cn.metrologic.com

India Sales Office
Tel: +91 80 51256718
Fax: +91 80 51256719
Email: info@in.metrologic.com

Metrologic Indonesia
Tel: 62 21 7360682
Fax: 62 21 7360682
Email:
a.herdian@id.metrologic.com

Taiwan Sales Office
Tel: 886-2-2351 0125
Email:
john.cheng@tw.metrologic.com

Metrologic Thailand
Tel: 661-814-2352

Metrologic Japan Co., Ltd.
Tel: 81-3-3839-8511
Fax: 81-3-3839-8519
Email: info@jp.metrologic.com

Korea Sales Office
Tel: 82-2-6205-5379
Fax: 82-2-3444-3980
Email:
Scott.lee@kr.metrologic.com

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