



MetroSelect™ Configuration Guide

MLPN 2407/February 2000

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Table of Contents

Introduction	iii
Section A: Code Types & Decode Rules	A
Section B: Supplements	B
Section C: Communications	C
Section D: Scanner Operation	D
Section E: Prefixes/Suffixes	E
Section F: Code Formatting	F
Section G: RS-232	G
Section H: Keyboard	H
Section I: OCIA	I
Section J: Light Pen Parameters	J
Section K: IBM 46xx	K
Section L: MS9500 Voyager™	L
Section M: Code Bytes	M
Section N: Miscellaneous Features	N

Introduction

Your new scanner has been configured at the factory with default settings.

Many host systems have unique formats and protocol requirements. Therefore, Metrologic provides a wide range of configurable features that may be selected using this bar code based configuration tool. Once the configuration is completed, the scanner stores the settings in nonvolatile memory (NOVRAM). NOVRAM saves the settings when the power is turned off.

Note: Every bar code with an " * " (asterisk) is a default setting.

Bar codes with a "~" (tilde) require multi-code configuration method.

Directions

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

Single Code Method: Most features can be enabled or disabled using the single code method. Scan the bar code next to the feature. The scanner will give a "good scan" beep. A multi-tone beep will follow to indicate the configuration has been saved to NOVRAM.

Multi-Code Method: All features can be enabled or disabled using the multi-code method. A feature with a "~" requires the multi-code method. To use the multi-code method, scan the "Enter/Exit Configuration Mode" code. Next, scan the codes for the needed feature. Then scan the Enter/Exit Configuration Code to exit and save the configuration changes. To abort a configuration change, power off the scanner before scanning the Enter/Exit code.

Bar Code Configuration Methods

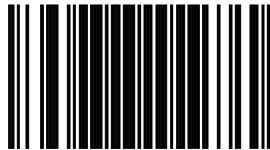
Single Code Method

1. Power up scanner
2. Scan the bar code for the desired feature
3. Observe a “good scan” beep, quickly followed by a multi-toned, “save setting” beep.

Multi-Code Method

1. Power up scanner
2. Scan Enter/Exit Configuration Mode bar code (3 beeps)
3. Scan bar code for the desired feature (1 beep)
4. Scan Enter/Exit Configuration Mode bar code (3 beeps) and save new configuration.

999999



Enter/Exit
Configuration Mode

Need to start over?

Use 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 load RS-232 defaults.

Note: Metrologic manufactures custom OEM scanners which load the OEM's defaults. Section N will explain how this affects "Metrologic Defaults."

Recall Defaults

999998



Section A

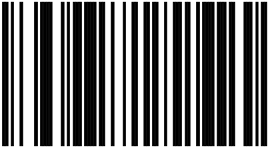
Code Types and Decode Rules

UPC-EAN	A-1
Code 128	A-3
Code 39	A-4
Interleaved 2 of 5	A-6
Standard 2 of 5	A-8
Other 2 of 5 Codes	A-9
Codabar	A-10
Code 93	A-11
Code 11	A-11
Telepen	A-12
Plessey Codes	A-13
Other Decode Features	A-15
Configurable Code Lengths	A-16

UPC/EAN

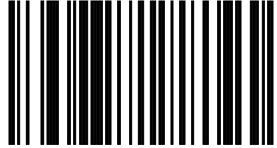
*Enable UPC/EAN

100116



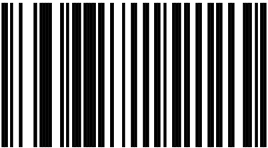
Disable UPC/EAN

100106



*Enable UPC-A

100216



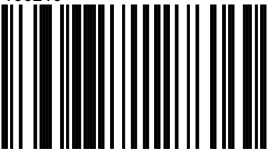
Disable UPC-A

100206



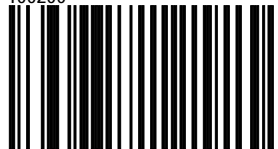
*Enable UPC-E

100210



Disable UPC-E

100200



*Enable EAN-13



Disable EAN-13



*Enable EAN-8



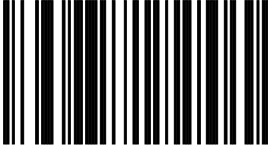
Disable EAN-8



Code 128

*Enable Code 128

100113

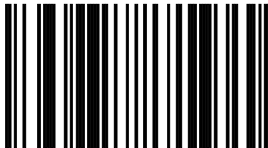


Disable Code 128

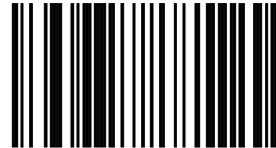
100103

Enable UCC/EAN - 128
']C1' Code formatting

100314

*Disable UCC/EAN -128
']C1' Code formatting

100304

For Coupon Code 128,
see Section B.

Code 39

*Enable Code 39



Disable Code 39



Enable MOD 43
Check on Code 39



*Disable MOD 43 Check on
Code 39



When enabled, the scanner will only scan Code 39 bar codes that have a valid Modulo 43 check digit.

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

Enable Full ASCII Code 39



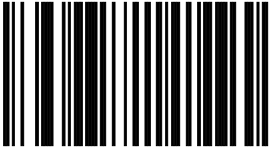
*Disable Full ASCII Code 39



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Enable PARAF (Italian
Pharmaceutical Codes)
Support

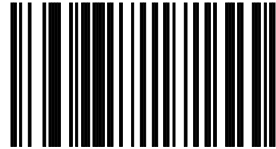
100215



When enabled, the scanner will
convert Code 39 bar codes to
PARAF format.

*Disable PARAF Support

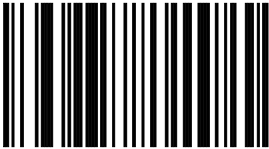
100205



When disabled, the scanner will not
convert Code 39 bar codes to PARAF
format.

Enable TRI-OPTIC Code

100312



*Disable TRI-OPTIC Code

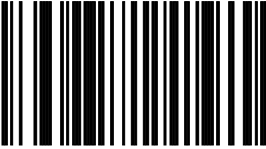
100302



Interleaved 2 of 5

*Enable Interleaved
2 of 5 (ITF)

100115



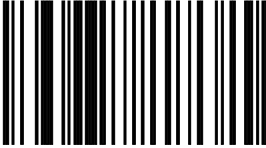
Disable Interleaved
2 of 5 (ITF)

100105



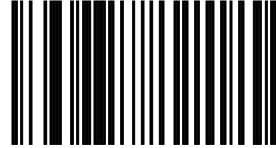
Enable MOD 10
Check on ITF

100310



*Disable MOD 10
Check on ITF

100300



When option enabled, the scanner will only scan Interleaved 2 of 5 (ITF) bar codes that have a Modulo 10 check digit.

When option disabled, the scanner will not test Interleaved 2 of 5 (ITF) bar codes for a Modulo 10 check digit.

~ITF Symbol Length Lock 1

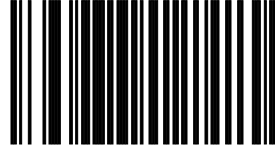
901600



To specify a First ITF symbol length lock, scan the above bar code and the appropriate code bytes located in Section M. Refer to Multi Code Method on page iii.

~ITF Symbol Length Lock 2

901700



To specify a second ITF symbol length lock, scan the above bar code and the appropriate code bytes located in Section M. Refer to Multi Code Method on page iii.

~ITF Minimum Symbol
Length

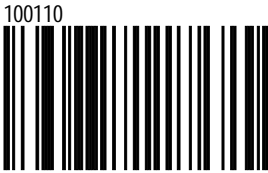
903400



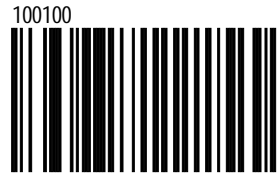
To specify a minimum number of ITF characters to be decoded, scan the above bar code and the appropriate code bytes located in Section M. Refer to Multi Code Method on page iii.

Standard 2 of 5

Enable Standard
2 of 5



*Disable Standard
2 of 5



~Standard 2 of 5 Symbol Length

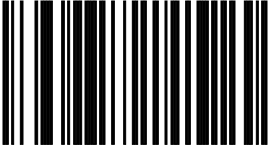


To specify a minimum number of ITF characters to be decoded, scan the above bar code and the appropriate code bytes located in Section M. Refer to Multi Code Method on page iii.

Other 2 of 5 Codes

Enable Matrix 2 of 5

100015



*Disable Matrix 2 of 5

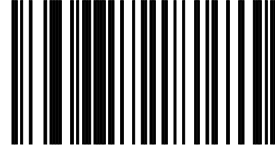
100005

Enable 15 Digit
Airline 2 of 5

100014

*Disable 15 Digit
Airline 2 of 5

100004

Enable 13 Digit
Airline 2 of 5

100313

*Disable 13 Digit
Airline 2 of 5

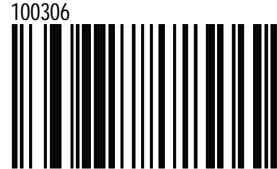
100303



Enable Hong Kong
2 of 5



*Disable Hong Kong
2 of 5



Codabar

*Enable Codabar



Disable Codabar



Enable Dual Field Codabar



*Disable Dual Field Codabar



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Code 93

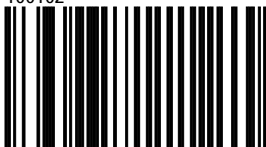
*Enable Code 93

100112



Disable Code 93

100102



Code 11

Enable Code 11

100013



*Disable Code 11

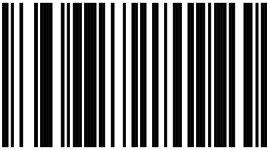
100003



Telepen

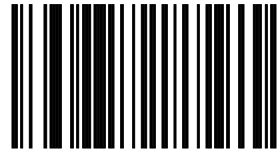
Enable Telepen

100017



*Disable Telepen

100007



Enable ALPHA Telepen

100016



*Disable ALPHA Telepen

100006



Plessey Codes

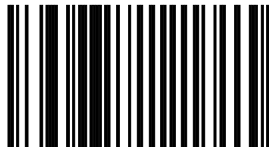
Enable MSI Plessey

100212



*Disable MSI Plessey

100202

*No MSI Plessey
Check Digit

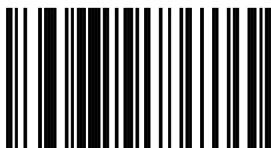
200704



This option will not test MSI Plessey bar codes for a check digit.

Enable MSI Plessey MOD 10/10
Check Digit

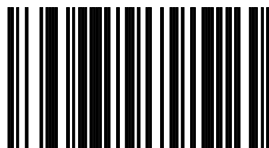
200734



Test MSI Plessey bar codes for a double Modulo 10 check digit.

*Enable MSI Plessey
Mod 10 Check digit

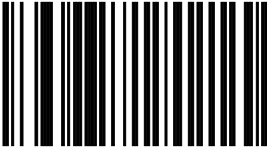
200724



Test MSI Plessey bar codes for a single Modulo 10 check digit.

Enable UK Plessey

100117



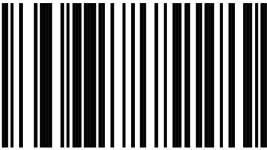
*Disable UK Plessey

100107



UK Plessey A
to X Conversion Enabled

100716



Enables UK Plessey A to X
Conversion.

*UK Plessey A
to X Conversion Disabled

100706

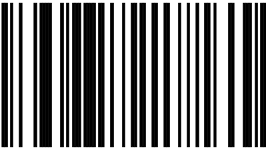


Disables UK Plessey A to X
Conversion.

Other Decode Features

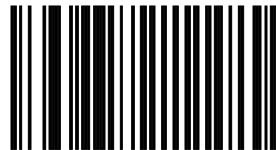
Enable Double Border
Required/Large Intercharacter
Space

100011



*Disable Double Border
Required/Large Intercharacter
Space

100001



~Minimum Symbol Length

901800



Omnidirectional default is 4. Single-line default is 3. Combine this code with the proper Code Bytes, to specify the minimum number of characters in all non-UPC/EAN bar codes.

Refer to Multi-Code Method on page iii.

~Symbol Length Lock

901900



This code combined with the proper Code Bytes, locks the bar code's length into place. Refer to Multi-Code Method on page iii.

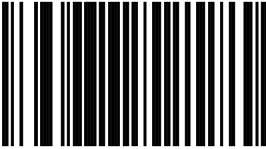
Configurable Code Lengths

There are seven bar code lock lengths available. Specific code types can be assigned to a lock length. While in programming mode, start with lock length 1, then scan three Code Byte bar codes from Section M that represent the bar code length. (A table with the code type values can be found in Section M) Refer to Multi-Code Method on page iii.

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

~Code Lock #1:
Length

902000



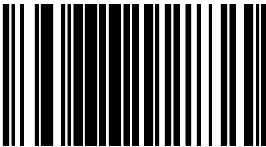
~Code Lock #1:
Code Type

902100



~Code Lock #2: Length

902200



~Code Lock #2: Code Type

902300



MetroSelect™

~Code Lock #3:
Length

902400



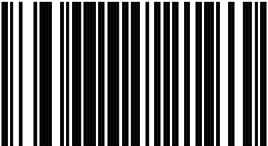
~Code Lock #3:
Code Type

902500



~Code Lock #4:
Length

902600



~Code Lock #4:
Code Type

902700



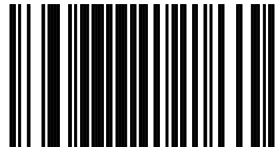
~Code Lock #5:
Length

902800



~Code Lock #5:
Code Type

902900



~Code Lock #6:
Length



~Code Lock #6:
Code Type



~Code Lock #7:
Length



~Code Lock #7:
Code Type



Section B

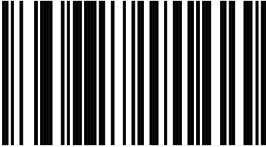
Supplements

Two Digit Supplements	B-1
Two Digit Redundancy	B-1
Five Digit Supplements	B-1
Five Digit Redundancy	B-2
Supplements Required/Not Required	B-2
Remote Supplemental Requirement	B-2
Bookland (978) Supplement Requirement	B-3
977 (2 digit) Supplement Requirement	B-3
378/379 French Supplement Requirement	B-3
434/439 German Supplement Requirement	B-4
#System 2 Requires Supplements	B-4
#System 5 Requires Supplements	B-4
Coupon Code 128	B-5
Code 128 'J' 'C1' Extended Code Format	B-5
Code 128 Group Separators	B-5
400 msec to find Supplemental	B-6
200 msec to find Supplemental	B-6
100 msec to find Supplemental	B-6
Code ID's with Supplements	B-7
Beep Once/Twice on Supplements	B-7
ISBN Check Digit Transmission	B-8
Bookland to ISBN Conversion	B-8
ISBN Re-formatting	B-8

Supplements

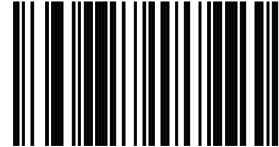
Enable Two Digit Supplements

101217



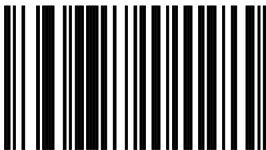
*Disable Two Digit Supplements

101207



*Enable Two Digit Redundancy

101212



Twice before accepting data, the scanner will scan the bar code plus the 2 digit add on.

Disable Two Digit Redundancy

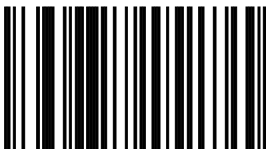
101202



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

Enable Five Digit Supplements

101216



*Disable Five Digit Supplements

101206



Enable Five Digit
Redundancy

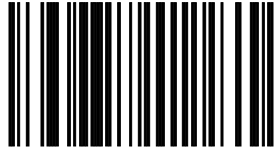
101211



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

*Disable Five Digit
Redundancy

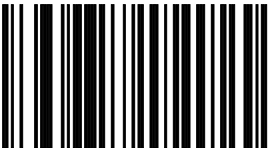
101201



When Scanned, will not implement the five digit redundancy feature.

Supplements are Required

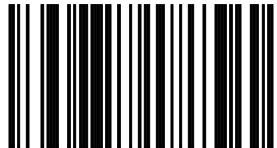
101213



When chosen, all UPC/EAN labels that are scanned must have a supplement.

*Supplements are not Required

101203



When chosen, all UPC/EAN labels do not require a supplement to be scanned.

Enable Remote Supplemental
Requirement

101416



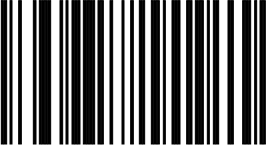
*Disable Remote Supplemental
Requirement

101406



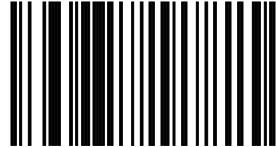
Enable Bookland
(978) Supplement Requirement

101417



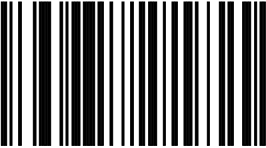
*Disable Bookland
(978) Supplement Requirement

101407



Enable 977 (2 digit)
Supplemental Requirement

101314



When enabled, the scanner will require a 2 digit supplement be scanned whenever an EAN-13 code begins with 977.

*Disable 977 (2 digit)
Supplemental Requirement

101304



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

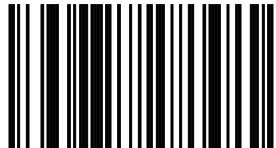
Enable 378/379 French
Supplemental Requirement

101313



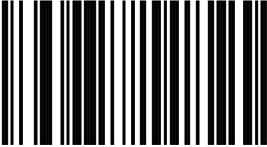
*Disable 378/379 French
Supplemental Requirement

101303



Enable 434/439 German
Supplemental Requirement

101415



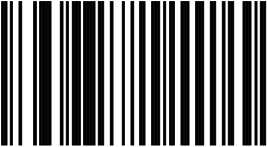
*Disable 434/439 German
Supplemental Requirement

101405



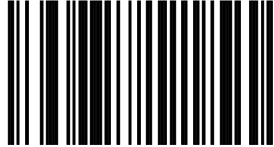
Enable #System 2 Requires
Supplements

101412



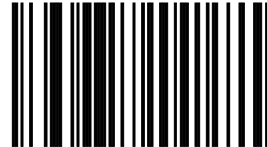
*Disable #System 2 Requires
Supplements

101402



Enable #System 5 Requires
Supplements

101215



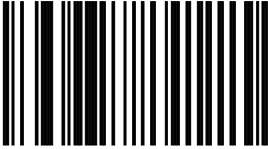
*Disable #System 5 Requires
Supplements

101205



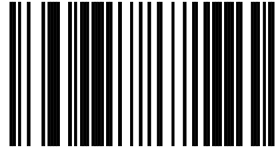
Enable Coupon Code 128

100315

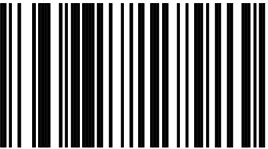


*Disable Coupon Code 128

100305

Enable Code 128 'JC1' Extended
Code Format

101411



When enabled, scanner transmits an 'JC1' at the beginning of the Code 128 portion of the coupon code.

*Disable Code 128 'JC1'
Extended Code Format

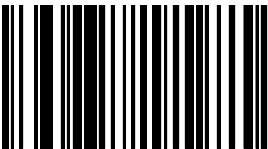
101401



When disabled, scanner will not transmit on 'JC1' at the beginning of the Code 128 portion of the coupon code.

Enable 128 Group Separators

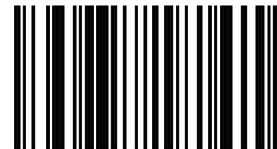
101414



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

*Disable 128 Group Separators

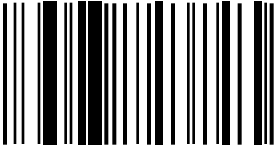
101404



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

400 msec to Find Supplemental

301340



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

200 msec to Find Supplemental

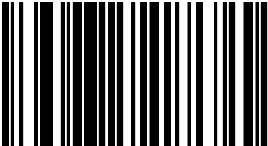
301320



With this option, the scanner will allot 200 milliseconds to “find” an add on after a main UPC/EAN bar code has been scanned.

*100 msec to Find Supplemental

301310

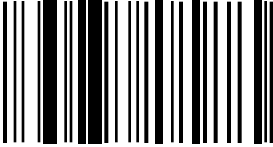


With this option, the scanner will allot 100 milliseconds to “find” an add on after a main UPC/EAN bar code has been scanned.

MetroSelect™

Enable Code ID's with
Supplements

101214



*Disable Code ID's with
Supplements

101204



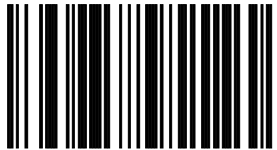
*Beep Once on Supplements

118406



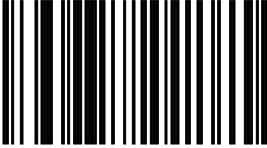
Beep Twice on Supplements

118416



Enable ISBN Check Digit
Transmission

101315



Not available with all models.

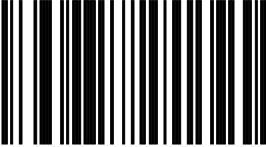
Disable ISBN Check Digit
Transmission

101305



Enable Bookland to ISBN
Conversion

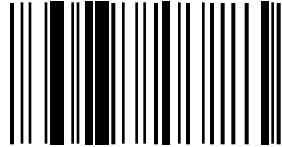
101317



Not available with all models.

*Disable Bookland to ISBN
Conversion

101307



Enable ISBN
Re-Formatting

101316



Not available with all models.

*Disable ISBN
Re-Formatting

101306



Section C

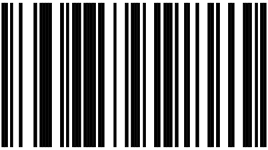
Communications

Enable Light Pen/Wand Communication	C-1
Enable RS-232	C-1
Load Keyboard Wedge Defaults	C-1
Enable Stand-Alone Keyboard Scanner	C-1
Enable Keyboard Wedge Emulation	C-1
Enable OCIAOutput	C-2
Load OCIA Defaults	C-2
Enable IBM 46xx Communication	C-2
Load IBM 46xx IBM Defaults	C-2
Enable No Communication Mode	C-3
Reserved	C-3
Reserved	C-3

Communications

Enable Light Pen/Wand Communication

415524



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

*Enable RS-232

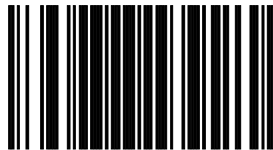
415554



When this option is enabled, the scanner will work with RS-232 +/-12V serial output.

Load Keyboard Wedge Defaults

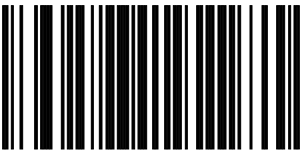
999994



Scan this before selecting Normal or Stand Alone Mode.

Enable Stand-Alone Keyboard Scanner

5155153



Allows scanner to be used without an external keyboard.

Enable Keyboard Wedge Emulation

5155143



Select if the scanner provides keyboard emulation by converting the scanned bar code data to the PC keyboard scan code equivalent.

Enable OCIA Output

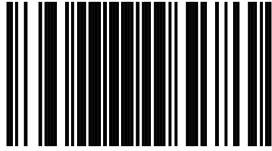
415544



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

Load OCIA Defaults

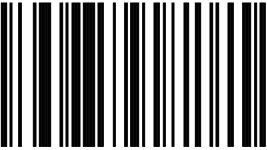
999993



Scan this before selecting Enable OCIA output

Enable IBM 46xx Communication

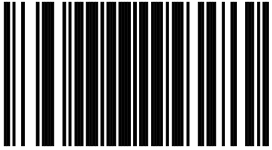
415504



Select this option for IBM 46XX SIOC/RS485 communications. Not all scanners support this interface. The correct interface board is required.

Load IBM 46xx Defaults

999995



Scan this before selecting IBM 46XX Defaults

Enable No Communication Mode

415534



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

Reserved

917500



Reserved

415564



Section D

Scanner Operation

Configuration Mode Options	D-1
Scan Buffers	D-2
Redundant Scans	D-4
Miscellaneous Decode Features	D-6
Depth of Field Adjustments	D-7
Same Symbol Time Outs	D-8
LED Options	D-10
Beeper Options	D-11
Data Transmission Delays	D-14
Inter-Character	D-14
Inter-Record	D-15
Communication Timeout Options	D-16
Host Scanner Commands	D-18
Power Save Modes	D-22
Miscellaneous Features	D-24
Test Modes	D-25

Configuration Mode

Allow Configuration Mode on
Power-Up

118117



Scanner can only enter MetroSet™ mode before any bar codes are scanned.

*Allow Configuration Mode
Anytime

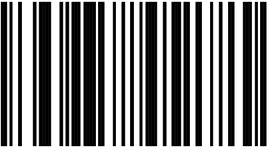
118107



Allow MetroSet™ configuration at any time.

Allow Configuration Labels on
Power-up

118116



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

*Allow Configuration Labels
Anytime

118106

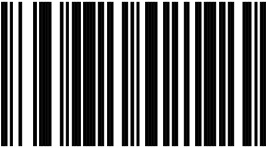


Allows scanning of configuration bar codes any time.

Scan Buffers

*1 Scan Buffer

318000



When enabled, 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

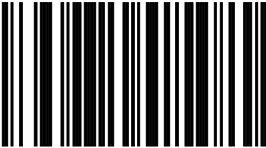
318010



When enabled, 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.

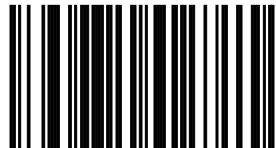
3 Scan Buffers

318020



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

318030



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

5 Scan Buffers

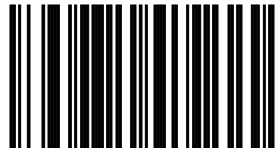
318040



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

6 Scan Buffers

318050



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

7 Scan Buffers

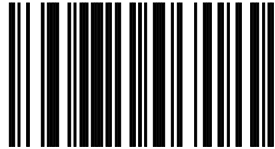
318060



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

8 Scan Buffers

318070

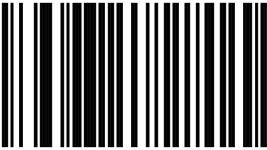


Same function as 2 Scan Buffers, but
8 bar codes are in the scan field.

Redundant Scans

*0 Redundant Scans

301100



Requires 1 good decode for a "good scan."

1 Redundant Scans

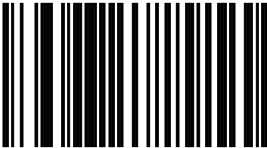
301110



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

2 Redundant Scans

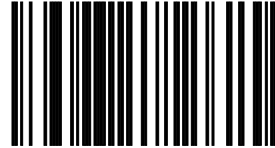
301120



Requires 3 consecutive...

3 Redundant Scans

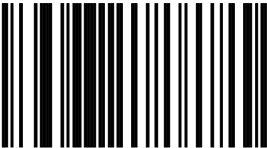
301130



Requires 4...

4 Redundant Scans

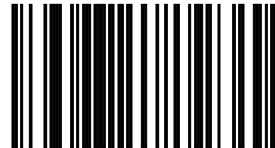
301140



Requires 5...

5 Redundant Scans

301150

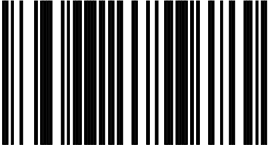


Requires 6...

MetroSelect™

6 Redundant Scans

301160



Requires 7...

7 Redundant Scans

301170

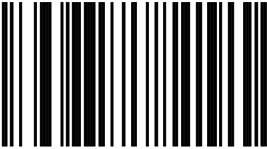


Requires 8...

Miscellaneous Decode Features

*Enable MAJIC

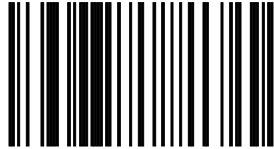
101113



The Metrologic Algorithm for Joining Incomplete Codes (MAJIC) aids in deciphering damaged or incomplete bar codes. Enable for more aggressive decoding.

Disable MAJIC

101103



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

118113



Require 1 different character between successive bar codes to consider the bar code "new".

*Normal Same Symbol Check

118103



Require 3 different characters between successive bar codes to consider the bar code "new".

Depth of Field Adjustments

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

*Optimize for Low Density Codes

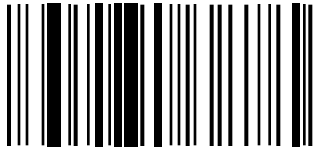
418790



For use with omnidirectional
scanners only.

Optimize for High Density Codes

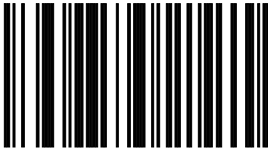
4187130



For use with omnidirectional
scanners only.

Fixed for High Density Codes

418700



For use with omnidirectional
scanners only.

Fixed for Medium Density

418710



For use with omnidirectional
scanners only.

Fixed for Low Density Codes

418720



For use with omnidirectional
scanners only.

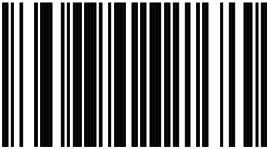
Same Symbol Time outs

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 msec of No, 50, 100, 200, 500, 1200 (1.2 sec), 2000 (2.0 sec) and infinite are available. Also, user-configurable value can be set in user-configurable increments of 50 for a range of 50 msec to 6350 (6.35 sec).

If using the MS9500 series, please go to Section L.

No Same Symbol Time Out

818900



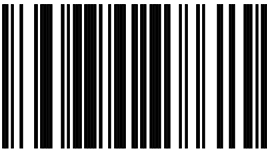
Same Symbol Time Out 100 msec

818920



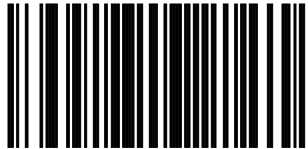
Same Symbol Time Out 200 msec

818940



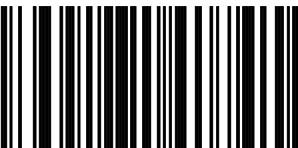
*Same Symbol Time Out 500 msec

8189100



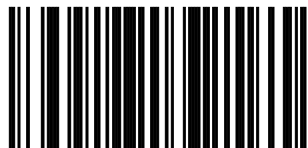
Same Symbol Time Out 1200 msec

8189240



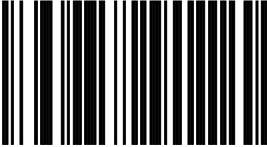
Same Symbol Time Out 2000 msec

8189400



Infinite Same Symbol Time Out

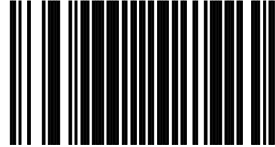
118917



When selected, the scanner will not repetitively scan the same bar code. This option overrides the symbol rescan time-outs.

~Variable Same Symbol Time-out

918900

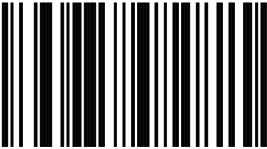


In configuration mode, scan this bar code and a code byte sequence from Section M to set the same symbol time out duration. Values range from 001 to 127 (50 to 6350 msec). Refer to MultiCode Method on page iii.

LED Options

Flash Green LED if Rescan
Allowed

118313



This indicates same symbol timeout
has elapsed.

*Do Not Flash Green LED if
Rescan Allowed

118303



Reverse LED
Functions

118312



Red = Laser On
Green = Good Read

*Normal LED
Functions

118302



Green = Laser On
Red = Good Read

MetroSelect™

Beeper Options

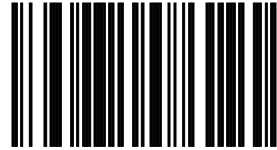
*Normal Tone

318575



Optional Tone 1

318565



Optional Tone 2

318555



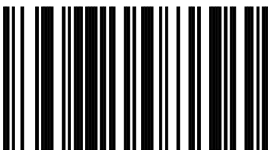
Optional Tone 3

318545



Optional Tone 4

318535



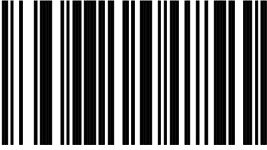
Optional Tone 5

318525



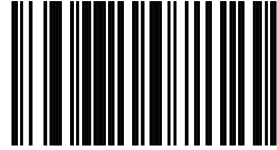
Optional Tone 6

318515



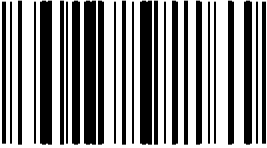
No Beep

318505



*Beep Once on Supplements

118406



Beep Twice on Supplements

118416



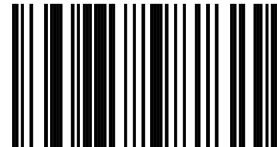
Enable Fast Beep

118414



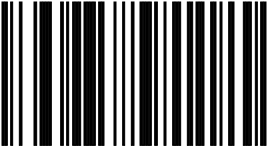
*Disable Fast Beep

118404



Beep on BEL Command

118417



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

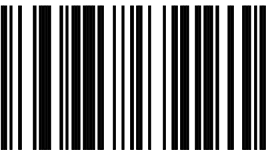
*Ignore BEL Command

118407



Enable Light Pen Toggle During Beep

116913



When enabled, the scanner beeps and toggles the light pen data line on a successful decode. This drives a good read indicator.

*Disable Light Pen Toggle During Beep

116903



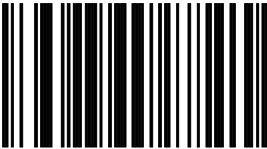
Data Transmission Delays

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.

Intercharacter Delay Options

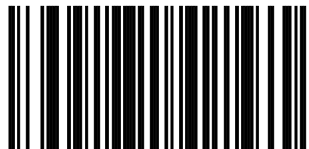
*1 msec Intercharacter Delay

818810



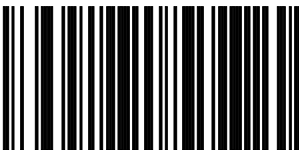
10 msec Intercharacter Delay

8188100



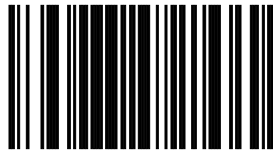
25 msec Intercharacter Delay

8188250



~Variable msec Intercharacter Delay

918800



Scan this bar code and a sequence of code bytes in Section M to set the delay between characters sent to the host system. (Range from 1 to 255 msec.) Refer to the MultiCode Method on page iii.

MetroSelect™

No Intercharacter Delay

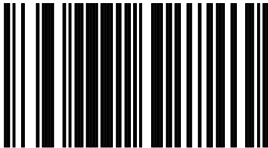
818800



Inter-Record Delay

~Variable Inter-Record Delay

919300



Turn Off Laser During Inter-Record Delay

119317



*Leave Laser On During Inter-Record Delay

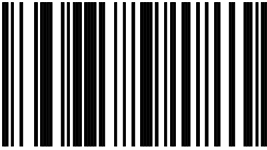
119307



Communication Timeout Options

Enable Communications
Time Outs

118412



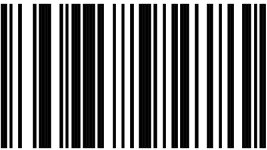
*Disable Communications

118402



*Beep Before
Transmit

118413



Scanner will beep after each label is transmitted.

Beep After
Transmit

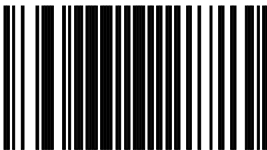
118403



Scanner will beep after each label is transmitted.

-Variable Communications Time Out

919100



*Default Communications Time Out
(2 secs)

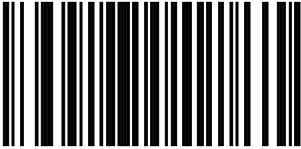
8191400



MetroSelect™

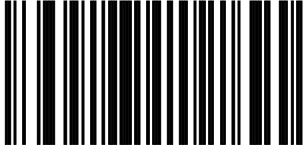
Short Communications Time Out
(1 secs)

8191200



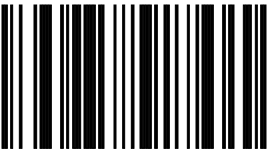
Long Communications Time Out
(4 secs)

8191800



Three Beeps on
Time Out

118410



*No Beeps on
Time Out

118400



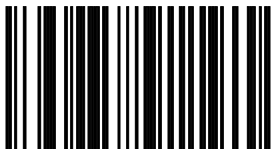
Razzberry Tone on Time Out

118411



*No Razzberry Tone on Time
Out

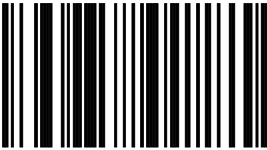
118401



Host Scanner Commands

Enable "D/E" Disable Command

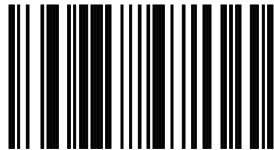
118115



When this option is chosen, the scanner will disable scanning after it receives an ASCII "D" from the host device. It will enable scanning when it receives an ASCII "E."

*Disable "D/E" Disable

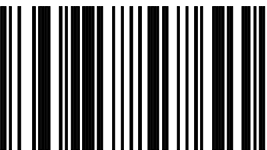
118105



Do not monitor D/E commands.

Enable Z/R Type D/E Simulation

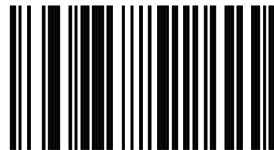
118211



When this option is chosen, 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

118201



Do not monitor Z/R commands.

MetroSelect™

Enable "F/L" Laser Command

118014



When enabled, the scanner will turn off the laser after the scanner receives an ASCII "F" character. The laser will turn on after it receives an ASCII "L" character.

*Disable "F/L" Laser Command

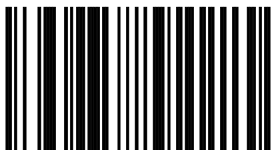
118004



Do not monitor "F/L" commands.

Motor On/Off Using
M/O Commands

118213



When enabled, the motor will turn on after the scanner receives an ASCII "M" character. The scanner will turn off the laser and motor after it receives an ASCII "O" character. For use with omnidirectional scanners only.

*Disable M/O
Commands

118203



Do not monitor M/ O commands.

Use DTRScan Disable

118115



When enabled, 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 DTRScan Disable

118105

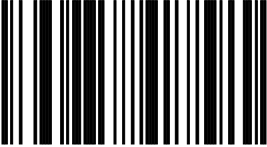


Do not monitor the DTR input.

MetroSelect™

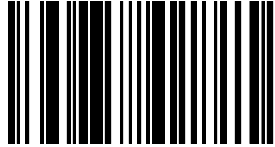
Activate on DC2 Character

118110



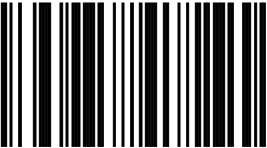
*Do Not Activate on DC2
Character

118100



Transmit "NO READ" if DC2
Activated

118111



Do Not Transmit "NO READ" if
DC2 Activated

118101



No Green LED During
"NO READ" Xmit

118311



*Green LED During "NOREAD"
Xmit

118301



Power Save Modes

Always Power Save Mode

118617



Enters power save mode immediately after power-up and after each bar code scanned. For use with Omnidirectional scanners only.

No Power Save Mode

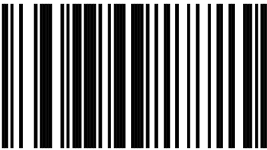
818600



The scanner will never enter power save mode. For use with Omnidirectional scanners only.

Power Save Mode in 1 Minute

118610



Enters power save mode when the scanner remains idle for 1 minute. For use with Omnidirectional scanners only.

Power Save in 2 Minutes

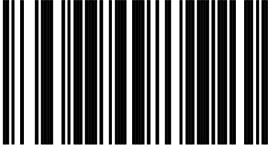
818620



Enters power save mode if the scanner remains idle for 2 minutes. For use with Omnidirectional scanners only.

Power Save in
5 Minutes

818650



Enters power save mode if the scanner remains idle for 5 minutes. For use with Omnidirectional scanners only.

Power Save in
10 Minutes

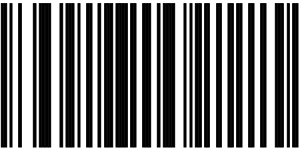
8186100



Enters power save mode if the scanner remains idle for 10 minutes. For use with Omnidirectional scanners only.

Power Save in
20 Minutes

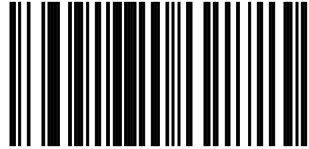
8186200



Enters power save mode if the scanner remains idle for 20 minutes. For use with Omnidirectional scanners only.

Power Save in
30 Minutes

8186300

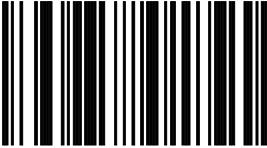


Enters power save mode if the scanner remains idle for 30 minutes. For use with Omnidirectional scanners only.

Miscellaneous Features

Enable Japan Mode

118112



*Disable Japan Mode

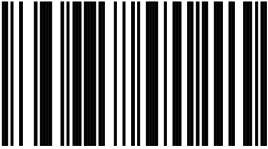
118102



Test Modes

Scanability ON

118017



This option enters scanability test mode. Do not enable unless instructed by a Metrologic representative.

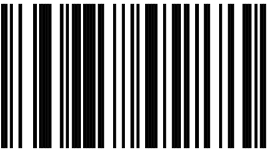
*Scanability OFF

118007



Scan Count Mode ON

118016



When enabled, the scanner will enter scan count test mode and the scanner's firmware number will transmit to the host. Do not enable unless instructed by a Metrologic representative.

*Scan Count Mode OFF

118006



Section E

Prefixes/Suffixes

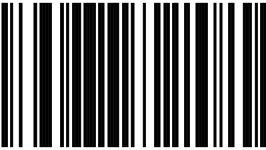
User Configurable Prefixes, All Data	E-1
User Configurable ID Characters, Code Specific	E-3
Standard Prefix Characters	E-8
Standard Suffix Characters	E-13
Longitudinal Redundancy Check (LRC)	E-15
User Configurable Suffixes, All Data	E-16
Special Formats	E-19

User Configurable Prefixes, All Data

Note: Scan "Enter configuration mode" code before trying to set this feature. Please refer to MultiCode Method pn page iii.

~Configurable Prefix
Character #1

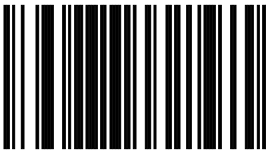
903500



When this option is chosen, 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 #3

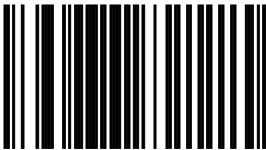
903700



Assigns a third configurable prefix character.

~Configurable Prefix
Character #5

903900



Assigns a fifth configurable prefix character.

~Configurable Prefix
Character #2

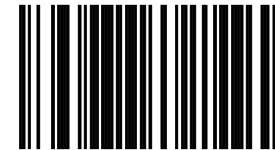
903600



Assigns a second configurable prefix character.

~Configurable Prefix Character
#4

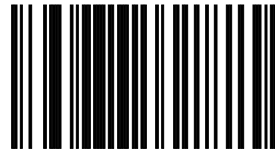
903800



Assigns a fourth configurable prefix character.

~Configurable Prefix
Character #6

904000



Assigns a sixth configurable prefix character.

~Configurable Prefix
Character #7

904100



Assigns a seventh configurable prefix character.

~Configurable Prefix
Character #8

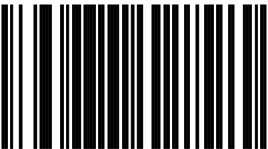
904200



Assigns an eighth configurable prefix character.

~Configurable Prefix
Character #9

904300



Assigns a ninth configurable prefix character.

~Configurable Prefix
Character #10

904400



Assigns a tenth configurable prefix character.

*Clear All User Configurable
Prefixes

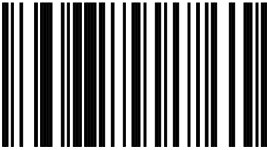
999985



User Configurable ID Characters, Code Specific

*Use Configurable Code ID Bytes
as Prefixes

105507



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

105517

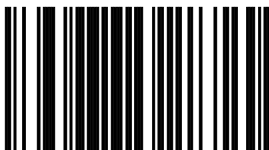


User configured, code specific ID bytes are transmitted after the data. If using suffixes, user configured prefixes can not be used.

Identifiers Characters

Configurable
UPC-A ID

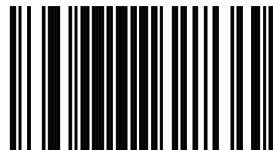
905600



While using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
UPC-E ID

905700



While using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
EAN-8 ID

905800



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
EAN-13 ID

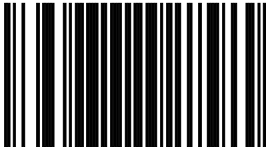
905900



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
Code 39 ID

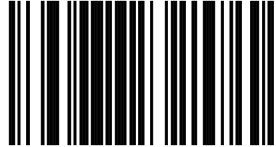
906000



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
Code 128 ID

906100



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

MetroSelect™

Configurable Code 93 ID

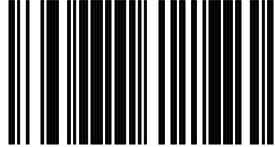
906300



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable Code 11 ID

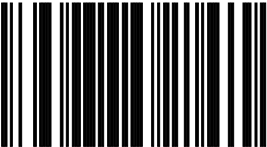
906400



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable Telepen ID

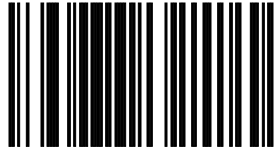
906200



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable TRI-OPTIC ID

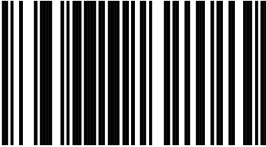
907200



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
Standard 2 of 5 ID

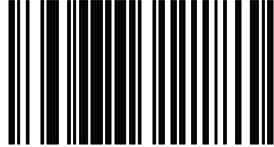
907100



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
Interleaved 2 of 5 ID

906700



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
Matrix 2 of 5 ID

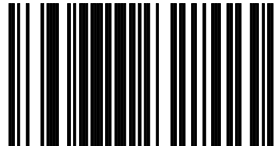
906800



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
Airline 2 of 5 ID

906900



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
MSI Plessey ID

906500



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
UK Plessey ID

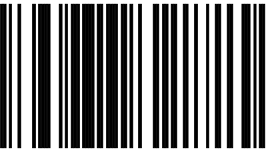
907000



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

Configurable
Codabar ID

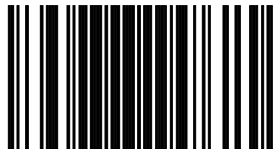
906600



While in using the MultiCode 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. Please refer to MultiCode Method on page iii.

*Clear all Configurable Code
Specific ID's

999983

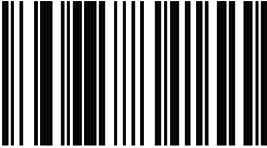


While in using the MultiCode Method, scan this bar code followed by the 3 code byte bar codes in Section M that represent a unique ID character to be associated with this bar code type. Please refer to MultiCode Method on page iii.

Standard Prefix Characters

Enable STX Prefix

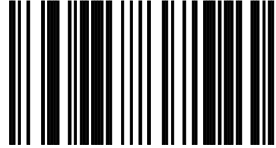
116615



When enabled, the scanner will transmit a Start of TeXt (ASCII 02H) before each bar code.

*Disable STX Prefix

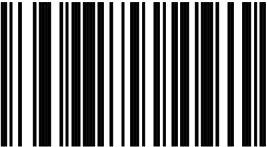
116605



Will not transmit a Start of TeXt (ASCII 02H) before each bar code.

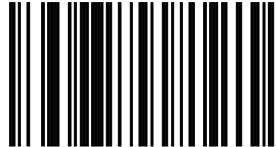
Enable Rochford-Thomson Mode

105513



*Disable Rochford-Thomson Mode

105503



Enable AIM ID Characters

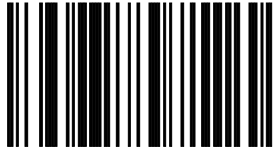
107915



The scanner will transmit AIM symbology identifiers. Some scanners may not support this feature

*Disable AIM ID Characters

107905



The scanner will not transmit AIM symbology identifiers.

MetroSelect™

Enable UPC Prefix ID

116617



When enabled, the scanner will transmit a prefix before any UPC/EAN bar code. The prefixes are A (UPC-A), E0 (UPC-E), F (EAN-13), and FF (EAN-8).

*Disable UPC Prefix ID

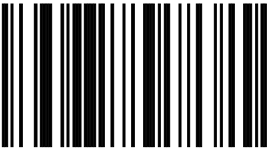
116607



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

Enable NCR Prefix ID

107911



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)
 B3 (Code 128 and other codes)

*Disable NCR Prefix ID

107901



Enable Nixdorf ID Characters

107917



When enabled, this option transmits code identifiers before each bar code for many Siemens/Nixdorf registers.

*Disable Nixdorf ID Characters

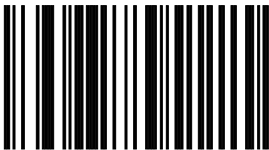
107907



This bar code will not transmit Siemens/Nixdorf code identifiers.

Enable SANYO ID Characters

107916



Transmit Sanyo ID Characters.

*Disable SANYO ID Characters

107906



Do not transmit Sanyo ID Characters.

MetroSelect™

Enable Manufacturer ID Prefix

105512



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

*Disable Manufacturer ID Prefix

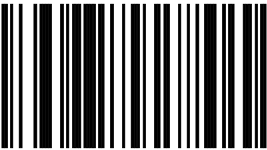
105502



Will not transmit the identification string.

Enable "C" Prefix

105511

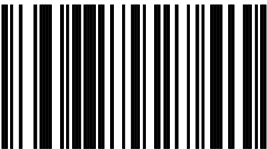


*Disable "C" Prefix

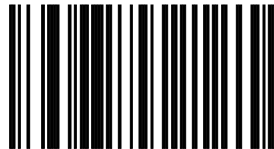
105501

Enable "\$" Prefix ID for
UPC/EAN

105510

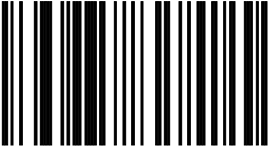
*Disable "\$" Prefix ID for
UPC/EAN

105500



Enable Tab Prefix

116611



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

*Disable Tab Prefix

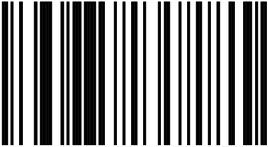
116601



Will not transmit a TAB.

Enable SNI Beetle Mode

116111



*Disable SNI Beetle Mode

116101



Enable Cipher 1021 IDs

116113



*Disable Cipher 1021 IDs

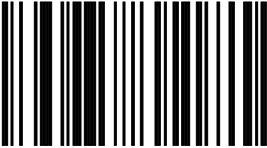
116103



Standard Suffix Characters

*Enable CR Suffix

116613



When enabled, the scanner transmits a Carriage Return after each bar code.

Disable CR Suffix

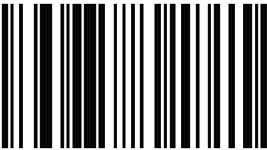
116603



The scanner will not transmit a Carriage Return after each bar code.

*Enable LF Suffix

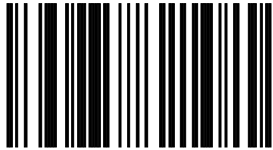
116612



When enabled, the scanner transmits a Line Feed after each bar code.
Note: Disabled when keyboard wedge defaults are loaded.

Disable LF Suffix

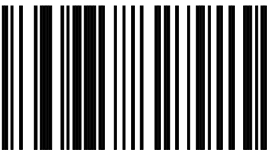
116602



The scanner will not transmit a Line Feed after each bar code.

Enable Tab Suffix

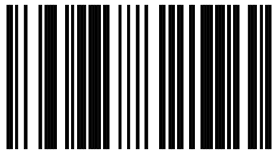
116610



When enabled, the scanner will transmit a TAB (ASCII 09H) after each bar code.

*Disable Tab Suffix

116600



Will not transmit TAB (ASCII 09H) after each bar code.

Enable ETX Suffix

116614



When enabled, the scanner will transmit End of TeXt (ASCII 03H) after the bar code data.

*Disable ETX Suffix

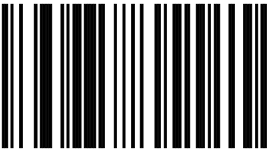
116604



When disabled, the scanner will not transmit End of TeXt (ASCII 03H).

Enable UPC Suffix ID

116616



When enabled, the scanner will transmit a suffix after any UPC/EAN bar code. The suffixes are A (UPC-A), E (UPC-E), F (EAN-13) and F (EAN-8).

*Disable UPC Suffix ID

116606

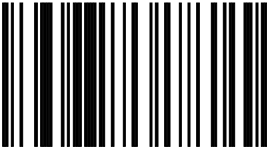


Will not transmit a suffix after UPC/EAN bar codes.

Longitudinal Redundancy Check (LRC)

Enable Transmit of LRC
Calculation

107811



With this option, the scanner outputs an LRC check character after the bar code.

*Disable Transmit of LRC
Calculation

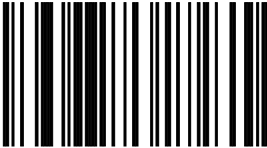
107801



Will not output an LRC (check character) after the bar code.

Start LRC on
Second Byte

107810



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

*Start LRC on
First Byte

107800



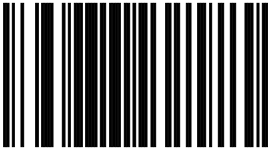
The scanner will calculate the LRC check digit starting with the first character

User Configurable Suffixes, All Data

Note: Scan “Enter configuration mode” code before trying to set this feature. Refer to MultiCode Method on page iii.

~Configurable Suffix Character #1

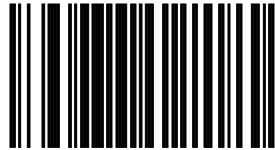
904500



When chosen, 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

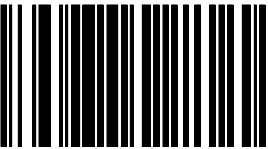
904600



Assigns a second configurable suffix character.

~Configurable Suffix Character #3

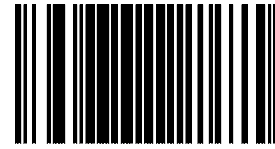
904700



Assigns a third configurable suffix character.

~Configurable Suffix Character #4

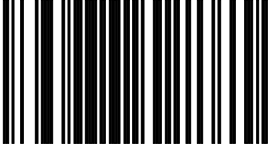
904800



Assigns a fourth configurable suffix character.

~Configurable Suffix
Character #5

904900



Assigns a fifth configurable suffix character.

~Configurable Suffix
Character #6

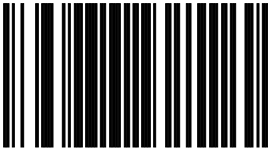
905000



Assigns a sixth configurable suffix character.

~Configurable Suffix
Character #7

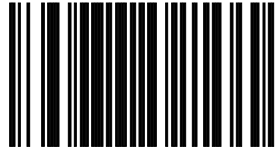
905100



Assigns a seventh configurable suffix character.

~Configurable Suffix
Character #8

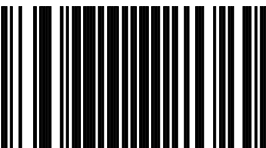
905200



Assigns an eighth configurable suffix character.

~Configurable Suffix
Character #9

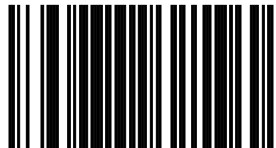
905300



Assigns a ninth configurable suffix character.

~Configurable Suffix
Character #10

905400



Assigns a tenth configurable suffix character.

*Clear All User Configurable
Suffixes

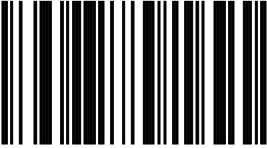
999984



Special Formats

Enable SINEKO
Mode

107914



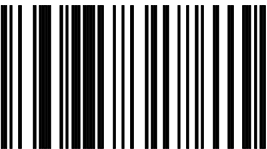
*Disable SINEKO Mode

107904



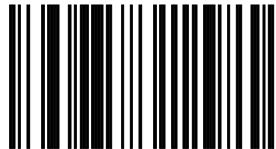
Enable Newcode Formatting
Mode A

116711



*Disable Newcode Formatting
Mode A

116701



Enable Newcode Formatting
Mode B

116710



*Disable Newcode Formatting
Mode B

116700



Section F

Code Formatting

UPC-EAN Formatting	F-1
Codabar Formatting	F-5
Code 39 Formatting	F-6
Code 11	F-7
Telepen	F-7
Plessey	F-8
2 of 5 Code Formatting	F-9

UPC/EAN Formatting

*Transmit UPC-A
Check Digit

116617



Do Not Transmit UPC-A
Check Digit

116607



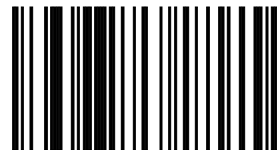
Transmit UPC-E
Check Digit

107516



*Do Not Transmit UPC-E
Check Digit

107506



Expand UPC-E to
12 Digits

107515



*Do Not Expand UPC-E to
12 Digits

107505

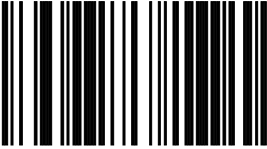


Expand UPC-E bar codes to the 12 digit
equivalent, UPC-A bar codes.

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

Convert UPC-A to EAN-13

107514



With this option, 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

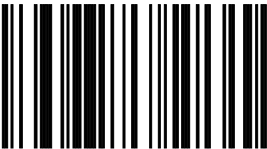
107504



With this option, the scanner will not convert UPC-A to EAN-13.

Transmit Lead Zero on UPC-E

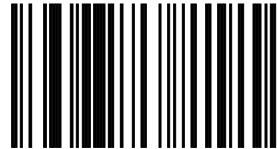
107513



When chosen, this option will transmit a zero before each UPC-E bar code

Do Not Transmit Lead Zero on UPC-E

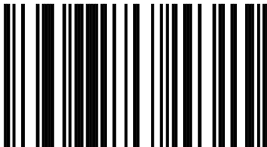
107503



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

Convert EAN-8 to EAN-13

107512



When chosen, 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

107502

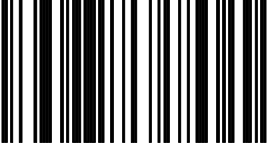


When chosen, the scanner will not convert EAN-8 to Ean-13.

MetroSelect™

*Transmit UPC-A
Number System

107511



Do Not Transmit UPC-A
Number System

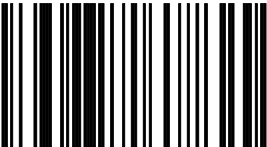
107501



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

*Transmit UPC-A MFR#

107611



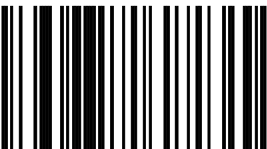
Do Not Transmit
UPC-A MFR#

107601



*Transmit UPC-A ITEM#

107610



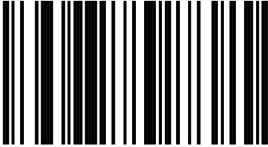
Do Not Transmit
UPC-A ITEM#

107600



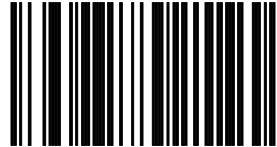
*Transmit EAN-8
Check Digit

107910



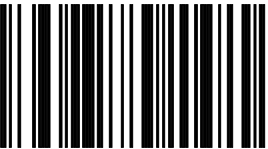
Do Not Transmit EAN-8
Check Digit

107900



*Transmit EAN-13 Check Digit

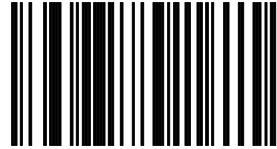
107912



Scanner will transmit EAN-13
Check Digit.

Do Not Transmit
EAN-13 Check Digit

107902

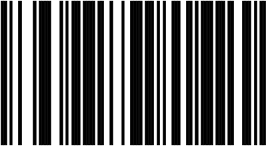


Scanner will not transmit EAN-13
Check Digit.

Codabar Formatting

Transmit Codabar Start/Stop Characters

107717



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

*Do Not Transmit Codabar Start/Stop

107707



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

Enable CLSI Editing

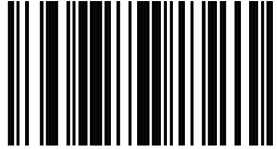
107716



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

*Do Not Enable CLSI Editing

107706

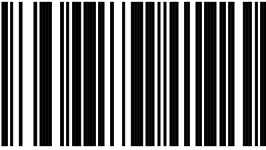


This option will not perform CLSI type editing before the information is transmitted to the host.

Code 39 Formatting

Transmit Mod 43 Check
Digit On Code 39

107715



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

*Do Not Transmit Mod 43 Check
Digit On Code 39

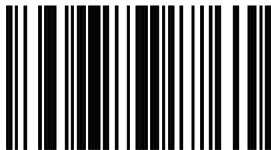
107705



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

Transmit Code 39
Stop/Start Characters

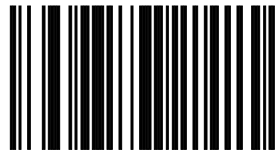
107710



When chosen, the scanner transmits Code 39's start and stop characters before and after each bar code.

*Do Not Transmit Code 39

107700



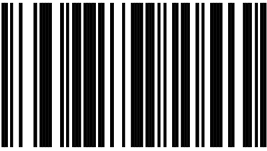
When chosen, the scanner will not transmit Code 39's start and stop characters before and after each bar code.

MetroSelect™

Code 11

Transmit Code 11 Check Digit

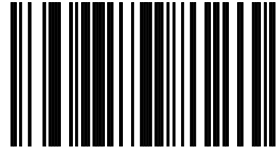
107713



This bar code will transmit Code 11 check characters when used with Enabled Code 11 in section A.

*Do Not Transmit Code 11 Check Digit

107703

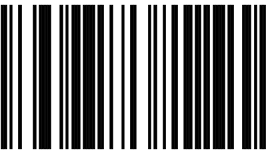


This bar code will not transmit Code 11 check characters.

Telepen

Enable Convert
Telepen ^L to E

107814



*Disable Convert
Telepen ^L to E

107804



Plessey

Transmit UK Plessey Check Digit

107816



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

*Do Not Transmit UK Plessey Check Digit

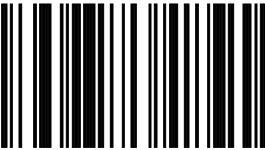
107806



Will not transmit UK Plessey Check Digit characters.

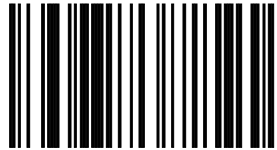
Enable UK Plessey Special Format

107815



Disable UK Plessey Special Format

107805



Transmit MSI Plessey Check Digit

107711



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

* Do Not Transmit MSI Plessey Check Digit

107701

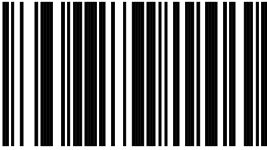


The scanner will not transmit MSI Plessey's check digit characters.

2 of 5 Code Formatting

Transmit Mod 10 Check Digit
on ITF

107714



With this option, the scanner transmits Interleaved 2 of 5 (ITF) Mod 10 check character.

*Do not Transmit Mod 10 Check
Digit on ITF

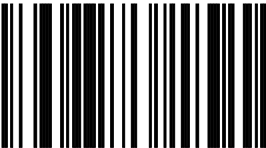
107704



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

Transmit Matrix 2 of 5
Check Digit

107812



*Do Not Transmit Matrix 2 of
5 Check Digit

107802



Section G

RS-232

Enable RS-232	G-1
Parity Features	G-2
BAUD Rate Features	G-3
Data/Stop Bit Features	G-5
Hardware Handshaking	G-6
Software Handshaking	G-9
Miscellaneous	G-11

MetroSelect™

*Enable RS-232 Mode

415554



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

Parity Features

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

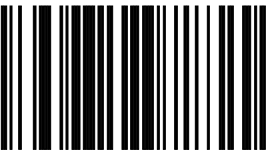
No Parity

316045



Odd Parity

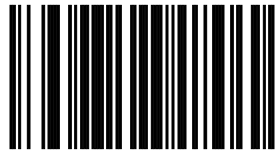
316005



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

*Space Parity

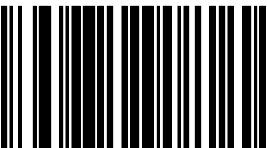
316015



Select Space Parity to set the parity bit always 0.

Even Parity

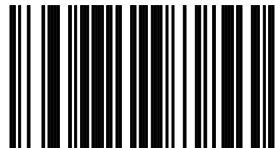
316025



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

Mark Parity

316035



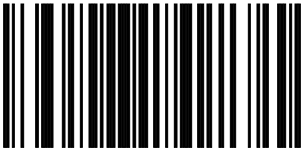
Select Mark Parity to set the parity bit always 1.

BAUD Rate

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

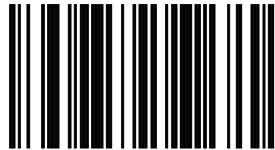
4158100



Not supported on the
MS9500 Voyager.™

57600 BAUD Rate

415890



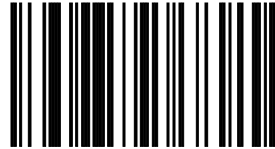
Not supported on the
MS9500 Voyager.™

38400 BAUD Rate

415880

**19200 BAUD Rate**

415870

**14400 BAUD Rate**

415860

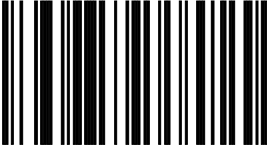
***9600 BAUD Rate**

415850



4800 BAUD Rate

415840



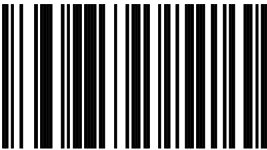
2400 BAUD Rate

415830



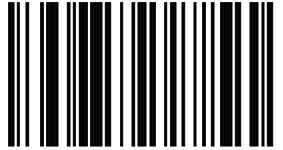
1200 BAUD Rate

415820



600 BAUD Rate

415810



300 BAUD Rate

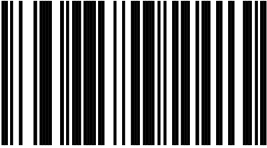
415800



Data/Stop Bits

8 Data Bits

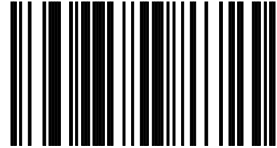
116013



Number of data bits transmitted for each character.

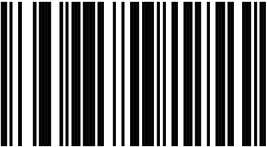
*7 Data Bits

116003



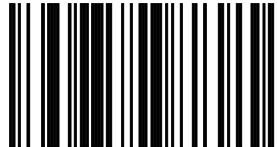
1 Stop Bit

116014



*2 Stop Bits

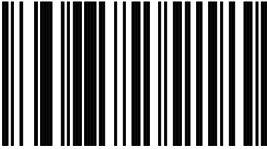
116004



Hardware Handshaking

Enable RTS/CTS Handshaking

115816



Output a Request To Send (RTS) signal and wait for a Clear To Send (CTS) signal before transmitting data.

*Disable RTS/CTS Handshaking

115806



Do not use RTS/CTS handshaking.

*Character RTS/CTS

115815



Activate/Deactivate RTS signal for each character.

Message RTS/CTS

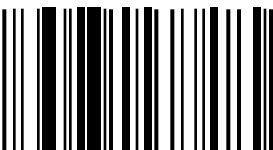
115805



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

Invert RTS Polarity (RSV1)

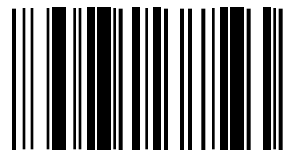
124510



+12v = Inactive
-12v = Active

*Standard RTS Polarity

124500

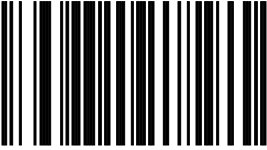


Use standard RTS polarity
-12v = Inactive
+12v = Active

MetroSelect™

Invert CTS Polarity (RSV2)

124511



+12v = Inactive, do not send
 -12v = Active, OK to send

*Standard CTS Polarity

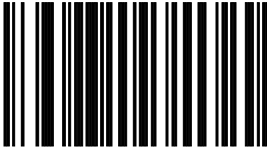
124501



-12v = Inactive, do not send
 +12v = Active, OK to send

Activate RTS,
 Do Not wait for CTS (RSV3)

124512



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

*Activate RTS, Wait for CTS

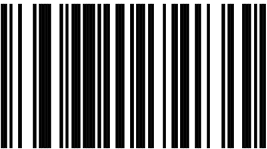
124502



Wait for CTS after activating RTS.

Test CTS Not Present
 Before RTS (RSV4)

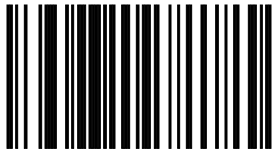
124513



Do not activate RTS if CTS is already
 present.

*Do Not Test for CTS Present
 Before RTS

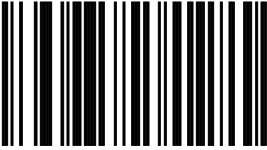
124503



Activate RTS without testing if CTS is
 already active.

Enable DTR Support

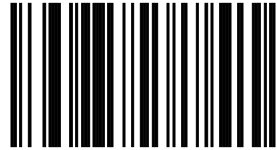
115817



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

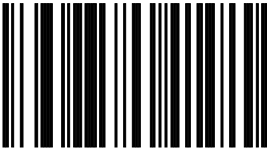
*Disable DTR Support

115807



Enable RTS Counter Toggle

115915



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

*Disable RTS Counter Toggle

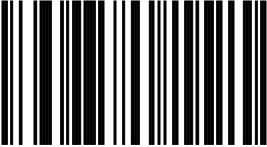
115905



Software Handshaking

Enable XON/XOFF Handshaking

115914



When enabled, 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

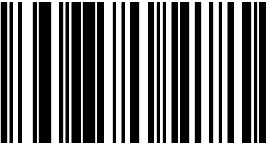
115904



The scanner will not test for XON/XOFF.

Enable ACK/NAK

115913



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

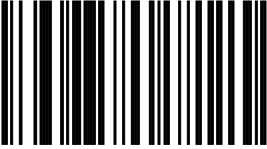
115903



Do not support ACK/NAK handshaking.

Support BEL/CAN in ACK/NAK

115911



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

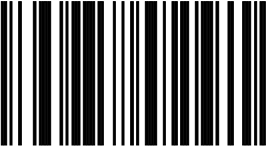
115901



Ignore BEL/CAN characters in communication loop.

Enable 5 Retries on ACK/NAK
Time Out

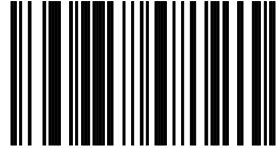
118013



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

*Disable 5 Retries on ACK/NAK
Time Out

118003

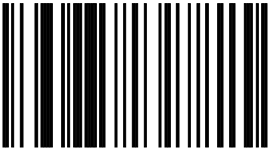


Do not limit retransmission to 5 NAK cycles.

Miscellaneous

Enable French PC Term

116110



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

*Disable French PC Term

116100



Do not transmit in French PC Term mode.

Section H

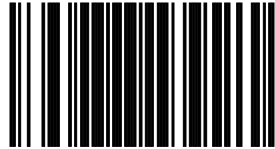
Keyboard

Enable Keyboard Emulations	H-1
Country/Scan Code Table Selects	H-2
Keyboard/System Type	H-4
Special Keyboard Features	H-5
InterScan Code Delays	H-8
Control Sets	H-9

Enable Keyboard Emulation

Load Keyboard Wedge Defaults

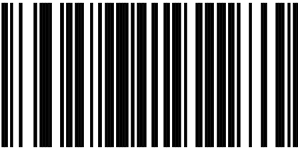
999994



Loads default settings for keyboard wedge mode.

Enable Stand-Alone Keyboard Emulation

5155153



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

*Enable Keyboard Wedge Emulation

415574

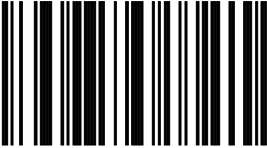


Use this with an external keyboard. Transmit in wedge mode to allow standard PC Keyboards to communicate when no bar code data is available.

Country/Scan Code Table Selects

*USA Keyboard

416240



Enable USA Keyboard.

Switzerland Keyboard

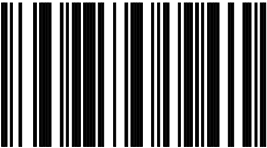
416280



Enable Swiss Keyboard.

Spain Keyboard

416250



Enable Spanish Keyboard.

Italy Keyboard

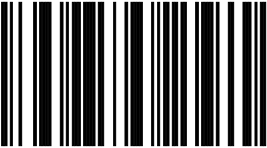
416240



Enable Italian Keyboard.

Germany Keyboard

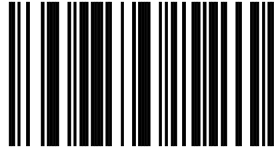
416230



Enable German Keyboard.

France Keyboard

416220



Enable French Keyboard.

UK Keyboard

416210



Enable UK Keyboard.

Belgium Keyboard

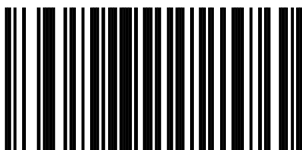
416200



Enable Belgium Keyboard.

Japanese Keyboard

4162100



Enable Japanese Keyboard.

IBM 4700 Financial Keyboard

416270

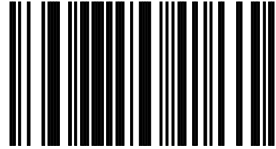


Enable IBM 4700 Financial
Keyboard.

Keyboard/System Type

*AT Keyboard

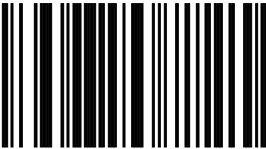
216215



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

XT Keyboard

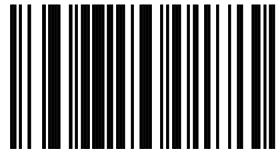
216205



If using an XT computer, scan the above.

PS/2 Keyboard

216225

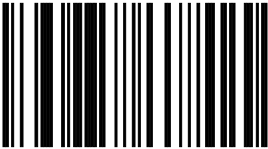


Scan the above for PS/2 computer. (Includes IBM PC and compatible models 30, 70, 8556)

Special Keyboard Features

Transmit Make Code Only

116311



Do not scan unless instructed by a Metrologic representative.

*Transmit Make/Break Code

116301



Do not scan unless instructed by a Metrologic representative.

Do Not Transmit FOH Break Code

116300



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

*Transmit FOH Break Code

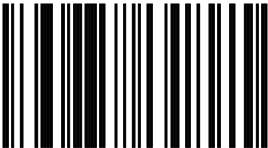
116310



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

Transmit Cleanup Bit

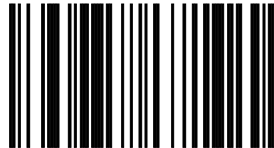
116315



Use for certain NEC computers.

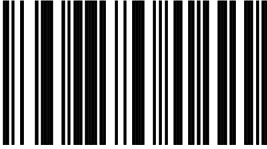
*Do Not Transmit Cleanup Bit

116305



Enable Alt Mode

116217



When enabled, the scanner will duplicate this keyboard sequence:
Hold down ALT key: Type decimal number that corresponds to the appropriate character.

*Disable Alt Mode

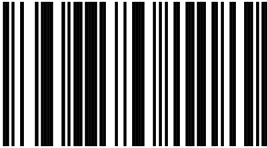
116207



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

Enable Auto Detect Mode
(AT/PS2)

116214



Automatically detects caps lock status.

*Disable Auto Detect Mode
(AT/PS2)

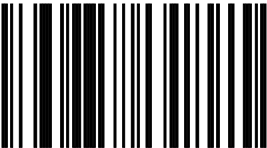
116204



When disabled, the Caps Lock feature is not supported.

Enable Caps Lock (XT)

116315



*Disable Caps Lock (XT)

116305

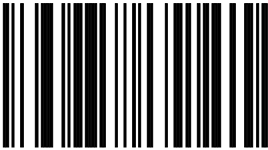


When disabled, the Caps Lock feature is not supported.

MetroSelect™

Send Numbers as Keypad Data

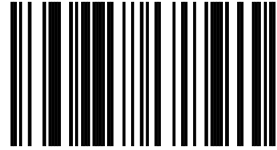
116316



When enabled, all data is sent as if it has been entered on a keypad.

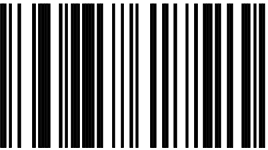
*Send Numbers as Normal Data

116306



Enable Reserved Feature

116410



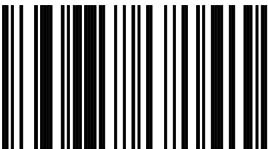
*Disable Reserved Feature

116400



*Use Extended ASCII To Send Extended Key Codes

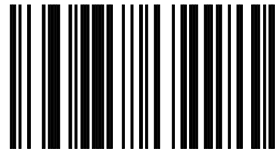
116303



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

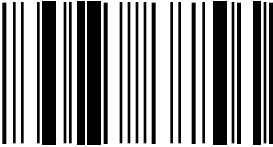
116313



Transmit extended ASCII codes via ALT Mode.

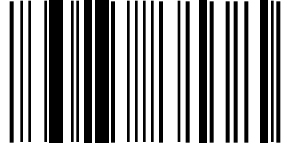
*Character KBInhibit

116304



Message KB Inhibit

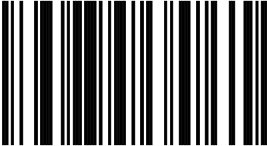
116314



InterScan Code Delays

*InterScan Code Delay 800
Microseconds

816580



InterScan Code Delay 7.5 msec

8165750



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.

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.

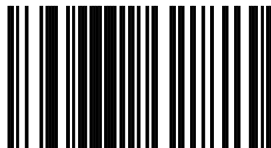
InterScan Code Delay
15 msec

81651500



-Variable InterScan Code
Delay msec

916500



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.

Refer to Multi-Code Method on page iii.

MetroSelect™

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 IBMcompatible keyboard do not translate to ASCII characters. One method of "bar coding" the extended keys is to substitute the extended key codes when a specific ASCII control character is found in the bar code stream. The Control Sets are specific translations of the ASCII (HEX) set.

Control Set #1

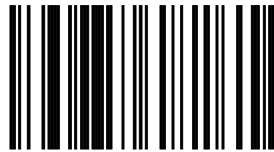
Enable Control Set #1

416484



Disable Control Set #1

416404



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

Control Set #1 Continued

ASCII (HEX)	ASCII Control	Extended Key
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 I

OCIA

OCIA	I-1
Load OCIA Defaults	I-1
DTS/Nixdorf	I-1
DTS/Siemens	I-1
NCR-S	I-1
NCR-F	I-1



Enable OCIA Mode

415544



Select this option if communications requires OCIA (Optically Coupled Interface Adapter). This serial interface is clocked by the host.

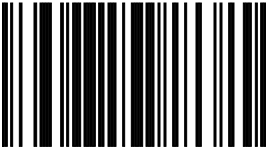
Load OCIA Defaults

999993



Enable DTS/Siemens

217706



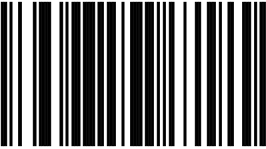
*Enable DTS/Nixdorf

217716



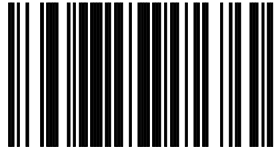
Enable NCR-S

217736



Enable NCR-F

217726



Section J

Light Pen Parameters

Enable Light Pen Mode	J-1
Spaces/Bar High	J-1
Transmit as Scanned/Code 39	J-1
Poll Light Pen Source	J-2
Light Pen Extra Toggle	J-2
10x Narrow Element Border	J-2
50x Narrow Element Border	J-2
Set Narrow Element Width	J-3

Enable Light Pen Mode

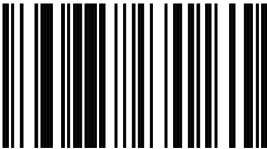
415524



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.

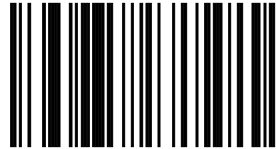
*Bars High

116917



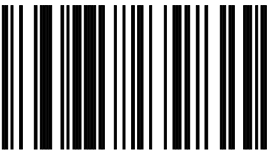
Spaces High

116907



Transmit Code 39

116916



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

*Transmit as Scanned

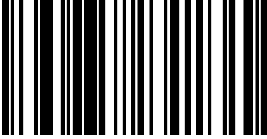
116906



All bar codes will be decoded and transmitted in that symbology.

Poll Light
Pen Source

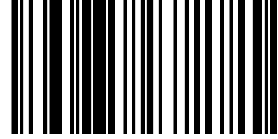
116915



When chosen, the scanner waits for an active source voltage before transmitting data.

*Do Not Poll Light
Pen Source

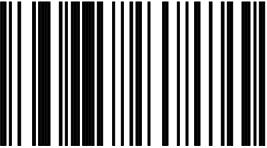
116905



When chosen, the scanner will not wait for an active source voltage before transmitting data.

Enable Light Pen Extra Toggle

116911



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

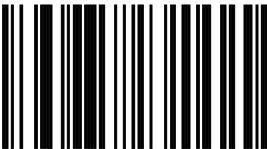
*Disable Light Pen Extra Toggle

116901



10x Narrow Element Border

116912



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

*50x Narrow Element Border

116902



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

Set Narrow Element Width

*1 ms Narrow
Element Width

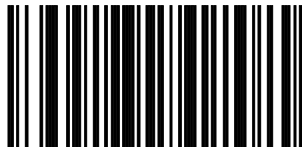
81681630



This option allows the transmission of Light/Pen Wand emulation at 1ms Narrow Element width.

60 μ s Narrow
Element Width

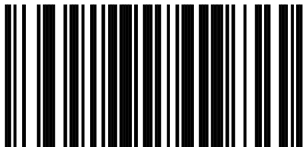
8168100



This transmits at 60 μ s Narrow element width.

100 μ s Narrow
Element Width

8168160



This transmits at 100 μ s Narrow element width.

500 μ s Narrow Element Width

8168820



This transmits at 500 μ s Narrow element width.

~Variable Narrow Element Width

916800



Sets the minimum x-dimension in 6 μ s increments. Scan this code followed by a 3 digit code byte sequence found in Section M. Refer to MultiCode Method on page iii.

Section K

IBM 46xx Configuration

IBM Port	K-1
IBM Reserved Codes	K-2

MetroSelect™

Enable IBM 46xx Communication

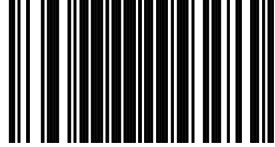
415504



Select this option for IBM 46XX SIOC/RS485 communications. Not all scanners support this interface. The correct interface board is required.

Load 46xx IBM Defaults

999995



Load default format settings for the IBM 46xx systems.

IBM Port

IBM Port 17B 3687-2 In Counter

317250



IBM Port 5B 1520 HH Laser

317260



IBM Port 9B 4500 CCD HH BCRI

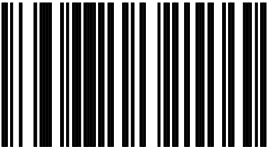
317270



IBM Reserved Codes

IBM Reserved #1

317200



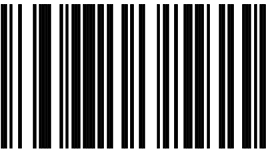
IBM Reserved #2

317210



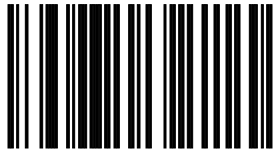
IBM Reserved #3

317220



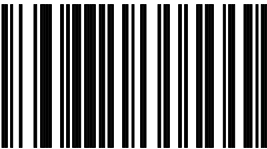
IBM Reserved #4

317230



IBM Reserved #5

317240



Section L

MS9500 Voyager™

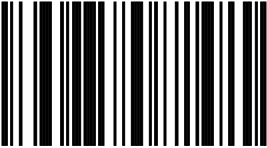
Activation Range	L-1
CodeGate™ Status	L-2
Laser/Scan Modes	L-3
Same Symbol Time Outs	L-4

Activation Range

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

*Long Range in Stand

118705



Short Range in Stand

118715



*Long Range out of Stand

118701



Short Range out of Stand

118711

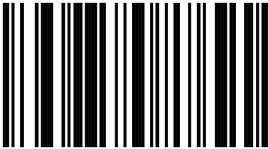


CodeGate™ Status

Use the following to control button functions.

CodeGate Active in the Stand

118707



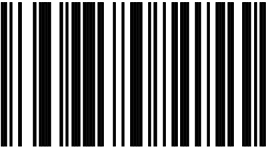
*CodeGate Inactive in the Stand

118717



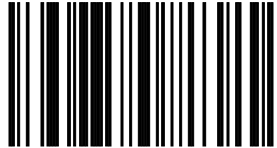
*CodeGate Active Out of Stand

118713



CodeGate Inactive Out of Stand

118703



Laser/Scan Modes

*Normal Scan

418304



Laser turns on after the IR senses a bar code. The laser remains on for approximately 3 to 10 seconds.

Blinky Scan

418324



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

Continuous Blinky Scan

418334



The laser blinks continuously. The IR is inactive.

Custom (One Shot) Scan

418344

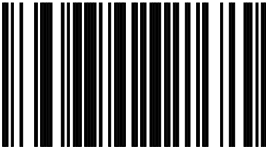


Laser turns on after the IR senses a bar code. The laser will turn off after a good decode.

Same Symbol Time Outs

No Same Symbol
Time Out

818900



1000 msec Same Symbol
Time Out

318910



*875 msec Same Symbol
Time Out

318920



750 msec Same Symbol
Time Out

318930



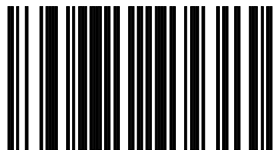
625 msec Same Symbol
Time Out

318940



500 msec Same Symbol
Time Out

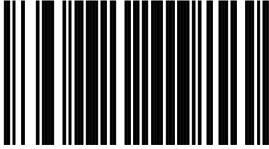
318950



MetroSelect™

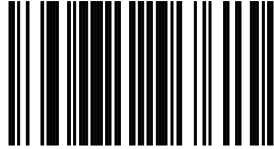
375 msec Same Symbol
Time Out

318960



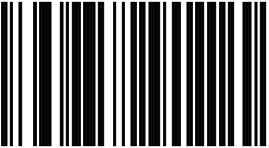
250 msec Same Symbol
Time Out

318970



Infinite Same Symbol
Time Out

118917



Section M

Code Bytes

Code Byte Usage	M-1
Code Bytes 0-5	M-2
Code Bytes 6-9	M-3
Reserved Codes	M-4
Code Byte/Code Type Table	M-5
ASCII Reference Table	M-6
Extended Key Code Reference Table	M-11

Code Byte Usage

NOTE!

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.

Example #1

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.

Add an Asterisk (*) as a Prefix

1. Enter/Exit (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 (3 beeps)

Code Bytes 0-5

Code Byte 0



Code Byte 1



Code Byte 2



Code Byte 3



Code Byte 4



Code Byte 5

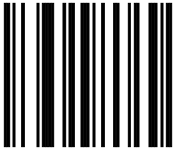


MetroSelect™

Code Bytes 6-9

Code Byte 6

6



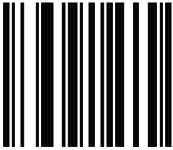
Code Byte 7

7



Code Byte 8

8



Code Byte 9

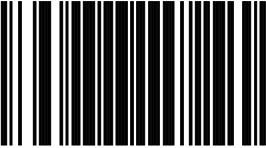
9



Reserved Codes

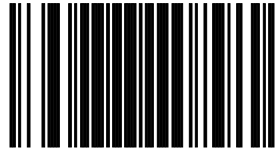
-Enable Reserved Code

999988



-Disable Reserved Code

999987



Contact Metrologic for information
about this feature.

Code Byte/Code Type Table

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

ASCII Reference Table

HEX Value	Decimal Value/ Code Byte Value	Character	Control Keyboard FOV
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

ASCII Reference Table

HEX Value	Decimal/ Code Byte Value	Character	Control Keyboard FOV
1A	026	SUB	Z
1B	027	ESC	[
1C	028	FS	\
1D	029	GS	^
1E	030	RS	_
1F	031	US	space, blank
20	032	SP	
21	033	!	
22	034	"	
23	035	#	
24	036	\$	
25	037	%	
26	038	&	
27	039	'	apostrophe
28	040	(
29	041)	
2A	042	*	
2B	043	+	
2C	044	,	comma
2D	045	-	minus
2E	046	.	period
2F	047	/	
30	048	0	number zero
31	049	1	number one
32	050	2	
33	051	3	

ASCII Reference Table

HEX Value	Decimal/ Code Byte Value	Character	Control Keyboard EQV
34	052	4	
35	053	5	
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	

ASCII Reference Table

HEX Value	Decimal/ Code Byte Value	Character	Control Keyboard FOV
4E	078	N	
4F	079	O	letter O
50	080	P	
51	081	Q	
52	082	R	
53	083	S	
54	084	T	
55	085	U	
56	086	V	
57	087	W	
58	088	X	
59	089	Y	
5A	090	Z	
5B	091	[shift K
5C	092	\	shift L
5D	093]	shift M
5E	094	^	à, shift N
5F	095	_	☛, shift O,
60	096	'	underscore
61	097	a	accent grave
62	098	b	
63	099	c	
64	100	d	
65	101	e	
66	102	f	
67	103	g	

ASCII Reference Table

HEX Value	Decimal/ Code Byte Value	Character	Control Keyboard EQV
68	104	h	
69	105	i	
6A	106	j	
6B	107	k	
6C	108	l	
6D	109	m	
6E	110	n	
6F	111	o	
70	112	p	
71	113	q	
72	114	r	
73	115	s	
74	116	t	
75	117	u	
76	118	v	
77	119	w	
78	120	x	
79	121	y	
7A	122	z	
7B	123	{	
7C	124		vertical slash
7D	125	}	alt mode
7E	126	~	(alt mode)
7F	127	DEL	delete, rubout

Extended Key Code Reference Table

Key	At Scan Code	XT/PS2 Scan Code	Prefix/Suffix Value Hex = Decimal
↑	75H	48H	80H = 128
↓	72H	50H	81H = 129
→	74H	4DH	82H = 130
←	6BH	4BH	83H = 131
Insert	70H	52H	84H = 132
Delete	71H	53H	85H = 133
Home	6CH	47H	86H = 134
End	69H	4FH	87H = 135
Page Up	7DH	49H	88H = 136
Page Down	7AH	51H	89H = 137
Right Alt	11H	38H	8AH = 138
Right Ctrl	14H	1DH	8BH = 139
Reserved	00H	00H	8CH = 140
Reserved	00H	00H	8DH = 141
Numeric Keypad Enter	5AH	1CH	8EH = 142
Numeric Keypad /	4AH	35H	8FH = 143
F1	05H	3BH	90H = 144
F2	06H	3CH	91H = 145
F3	04H	3DH	92H = 146
F4	0CH	3EH	93H = 147
F5	03H	3FH	94H = 148
F6	0BH	40H	95H = 149
F7	83H	41H	96H = 150
F8	0AH	42H	97H = 151
F9	01H	43H	98H = 152
F10	09H	44H	99H = 153

Extended Key Code Reference Table

Key	At Scan Code	XT/PS2 Scan Code	Prefix/Suffix Value Hex = Decimal
F11	78H	57H	9AH = 154
F12	07H	58H	9BH = 155
Numeric +	79H	4EH	9CH = 156
Numeric -	7BH	4AH	9DH = 157
Numeric *	7CH	37H	9EH = 158
Caps Lock	58H	3AH	9FH = 159
Num Lock	77H	45H	A0H = 160
Left Alt	11H	38H	A1H = 161
Left Ctrl	14H	1DH	A2H = 162
Left Shift	12H	2AH	A3H = 163
Right Shift	59H	36H	A4H = 164
Print Screen	Multiple		A5H = 165
Tab	0DH	0FH	A6H = 166
Shift Tab	8DH	8FH	A7H = 167
Enter	5AH	1CH	A8H = 168
ESC	76H	01H	A9H = 169
Left ALT Make	11H	36H	AAH = 170
Left ALT Break	11H	B6H	ABH = 171
Left CTRL Make	14H	1DH	ACH = 172
Left CTRL Break	14H	9DH	ADH = 173
* Left ALT + 1 character	11H	36H	AEH = 174
* Left CTRL + 1 character	14H	1DH	AFH = 175

* Example

1st Configurable Prefix = 174

2nd Configurable Prefix = 065

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

Section N

Miscellaneous Features

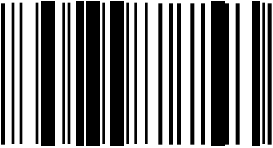
Custom Defaults	N-1
Serial Program Mode	N-3

Custom Defaults

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

Enable Factory Defaults

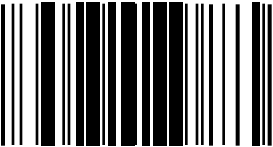
846600



Scan this code followed by "Recall Defaults" code to enable and load Metrologic Factory Defaults.

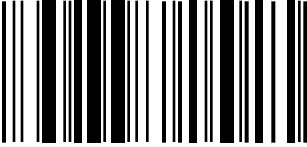
Recall Defaults

999998



Ruby Verifone Defaults

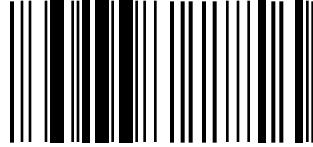
84661280



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

RCH

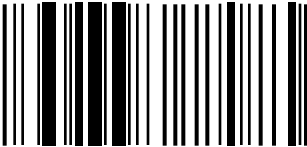
84660010



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

Sanyo

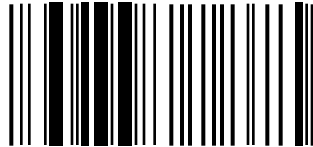
84660020



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

Gilbarco

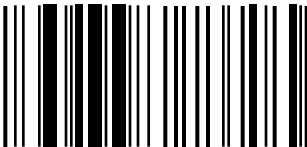
84660030



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

ALT Defaults

84660040



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

Serial Program Mode

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

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

If at anytime, the scanner cannot recognize a command, it will respond with a NAK (15 Hex).
Please refer to the Installation and User's Guide of the scanner for a complete description of Serial Program Mode.

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