

Quickscan™ I QD2200

PRODUCT REFERENCE GUIDE



General Purpose Coded Handheld Linear
Bar Code Reader



Datalogic S.r.l.

Via S. Vitalino, 13
40012 Calderara di Reno (BO)
Italy
Tel. +39 051 3147011
Fax +39 051 3147205

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Patents

See www.patents.datalogic.com for patent list.

Software Version

This manual refers to the following software versions and later:

QD2200 Boot: 610178511

QD2200 App: 610178613

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PREFACE

ABOUT THIS MANUAL

This Product Reference Guide (PRG) is provided for users seeking advanced technical information, including connection, programming, maintenance and specifications. The Quick Reference Guide (QRG) and other publications associated with this product are downloadable free of charge from the website listed on the back cover of this manual.

Typically, units are factory-programmed for the most common terminal and communications settings. If you need to modify any programmable settings, custom configuration can be accomplished by scanning the programming bar codes within this guide.

Programming can alternatively be performed using the Datalogic Aladdin™ Configuration application, which is available from the Datalogic website listed on the back cover of this manual. This multi-platform utility program allows device configuration using a PC. It communicates to the device using a serial or USB cable and can also create configuration bar codes to print.

OVERVIEW

[Chapter 1](#), Introduction provides a product overview, unpacking instructions, and cable connection information.

[Chapter 2](#), Setup presents information about unpacking and setting up the scanner, and interface configuration bar codes and details.

[Chapter 3](#), Configuration Using Bar Codes provides instructions and bar code labels for customizing your scanner. There are different sections for interface types, general features, data formatting, and symbology-specific features.

[Chapter 2](#), References provides details concerning programmable features.

[Appendix A](#), Technical Specifications lists physical and performance characteristics, as well as environmental specifications. It also provides standard cable pin-outs and descriptions of the functions and behaviors of the scanner's LED and Speaker indicators.

[Appendix B](#), references common factory default settings for scanner features and options.

[Appendix C](#), Sample Bar Codes offers sample bar codes of several common symbologies.

[Appendix D](#), Keypad includes numeric bar codes to be scanned for certain parameter settings.

[Appendix E](#), Scancode Tables lists control character emulation information for USB Keyboard interfaces.

[Appendix F](#), ASCII Chart lists hexadecimal reference values for ASCII characters.

Manual Conventions

The following conventions are used in this document:

The symbols listed below are used in this manual to notify the reader of key issues or procedures that must be observed when using the reader:



NOTE: This symbol draws attention to details or procedures that may be useful in improving, maintaining, or enhancing the performance of the hardware or software being discussed.



CAUTION: This symbol advises you of actions that could damage equipment or property.



WARNING: This symbol advises you of actions that could result in harm or injury to the person performing the task.



HIGH VOLTAGE: This symbol alerts the user they are about to perform an action involving, either a dangerous level of voltage, or to warn against an action that could result in damage to devices or electrical shock.



LASER: This symbol alerts the user they are about to perform an action involving possible exposure to laser light radiation.



GROUNDING: This symbol advises you to pay particular attention to the grounding instructions for correct device functioning.



ESD: This symbol identifies a procedure that requires you take measures to prevent Electrostatic Discharge (ESD) e.g., use an ESD wrist strap. Circuit boards are most at risk. Please follow ESD procedures.

TECHNICAL SUPPORT

Support Through the Website

Datalogic provides several services as well as technical support through its website. Log on to (www.datalogic.com).

For quick access, from the home page click on the search icon , and type in the name of the product you're looking for. This allows you access to download Data Sheets, Manuals, Software & Utilities, and Drawings.

Hover over the Support & Service menu for access to Services and Technical Support.

Reseller Technical Support

An excellent source for technical assistance and information is an authorized Datalogic reseller. A reseller is acquainted with specific types of businesses, application software, and computer systems and can provide individualized assistance.

Warranty

Datalogic warrants that the Products shall be free from defects in materials and workmanship under normal and proper use during the Warranty Period. Products are sold on the basis of specifications applicable at the time of manufacture and Datalogic has no obligation to modify or update Products once sold. The Warranty Period shall be five years from the date of shipment by Datalogic, unless otherwise agreed in an applicable writing by Datalogic.

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CHAPTER 1

INTRODUCTION

ABOUT THE SCANNER

Today there is an increased trend towards 2D bar codes, however, linear bar codes are still widespread in Retail POS checkout applications. Long bar codes are also commonly used in a variety of applications including utility bills, document processing and packaging. These long barcodes are a challenge for full area imagers to read due to their narrow field-of-view and shorter depth-of-field. The QuickScan™ QD2200 imager is the 1D entry-level corded imager from Datalogic with a superior scanning performance in its category. It reliably reads any type of 1D barcode from up close to a distance with ease in capturing long bar codes.

The Most Prompt Response at the Pos Check-out

Unlike other devices on the market, this imager provides full control to the operator, from the linear aiming to the most prompt visual and audible good-read feedback. It seamlessly reads through plexiglass barriers and can scan electronic coupons from smartphone screens at an incredibly affordable price.

Comfort and Reliability

Lightweight and easy to handle, the QuickScan QD2200 is very responsive at the pull of the trigger, providing a superior robustness for this class of products where the device is mostly stressed, because of the accurate design and quality of parts. Offering simple configuration and ease of use, this robust entry-level scanner delivers continuous operation capabilities with no failures. Finally, the QuickScan QD2200 imager will prove to be the best long term choice, by cutting down-time, no read/misread management time, and service costs.

USING THE QUICKSCAN™ I QD2200 READER

To read a symbol or capture an image, simply aim the reader and pull the trigger. Datalogic's exclusive patented 'Green Spot' for good-read feedback helps to improve productivity in noisy environments or in situations where silence is required.

The Quickscan™ I QD2200 reliably decodes all standard 1D (linear) including GS1 DataBar™ linear codes, Postal Codes (China Post). The data stream - acquired from decoding a symbol - is rapidly sent to the host. The reader is immediately available to read another symbol.

Figure 1 - Correct positioning of the scanner



PROGRAMMING THE READER

Configuration Methods

Programming Bar Codes

The reader is factory-configured with a standard set of default features. After scanning the interface bar code, you can select other options and customize your reader through use of the instructions and programming bar code labels available in the corresponding features section for your interface. Customizable settings for many features are found in [Configuration Parameters, starting on page 14](#).

Some programming labels, like “Restore Custom Defaults”, require only the scan of the single label to enact the change. Most, however, require the reader to be placed in Programming Mode prior to scanning them. Scan an ENTER/EXIT bar code once to enter Programming Mode. Once the reader is in Programming Mode, scan a number of parameter settings before scanning the ENTER/EXIT bar code a second time, which will then accept your changes, exit Programming Mode and return the reader to normal operation.



NOTE: There are some exceptions to the typical programming sequence described above. Please read the description and setting instructions carefully when configuring each programmable feature.

Datalogic Aladdin™

Datalogic Aladdin™ is a multi-platform utility program providing a quick and user-friendly configuration method via the USB-COM interface. Aladdin allows you to program the reader by selecting configuration commands through a user-friendly graphical interface running on a PC. These commands are sent to the reader over the selected communication interface, or they can be printed as bar codes to be scanned. Aladdin also facilitates image capturing.

In addition, Aladdin makes it easy to upgrade the handheld's firmware, to attain the benefits of new reader features. Reference the Datalogic Aladdin™ Online Help for more details.

Aladdin is available for download free of charge on the Datalogic website.

CHAPTER 2

SETUP

UNPACKING

Check carefully to ensure the scanner and any cables or accessories ordered are present and undamaged. If any damage occurred during shipment, contact "[Technical Support](#)" on page xii.

SETTING UP THE QUICKSCAN™ QD2200 READER

Follow the steps provided in this section to connect and get your reader up and communicating with its host:

1. Connect the Interface Cable to the reader as shown in Figure 2. To disconnect the cable, insert a paper clip or similar object into the opening shown.
2. Connect the other end to the Host (see the next section, "[Connecting the Host Interface](#)" on page 4 and Figure 3).
3. Program the Reader "[Customizing Configuration Settings](#)" on page 11 (only if modifications are needed from factory settings).

CONNECTING THE HOST INTERFACE

The scanner kit you ordered to match your interface should provide a compatible cable for your installation. If this is not so, contact "[Technical Support](#)" on page xii.

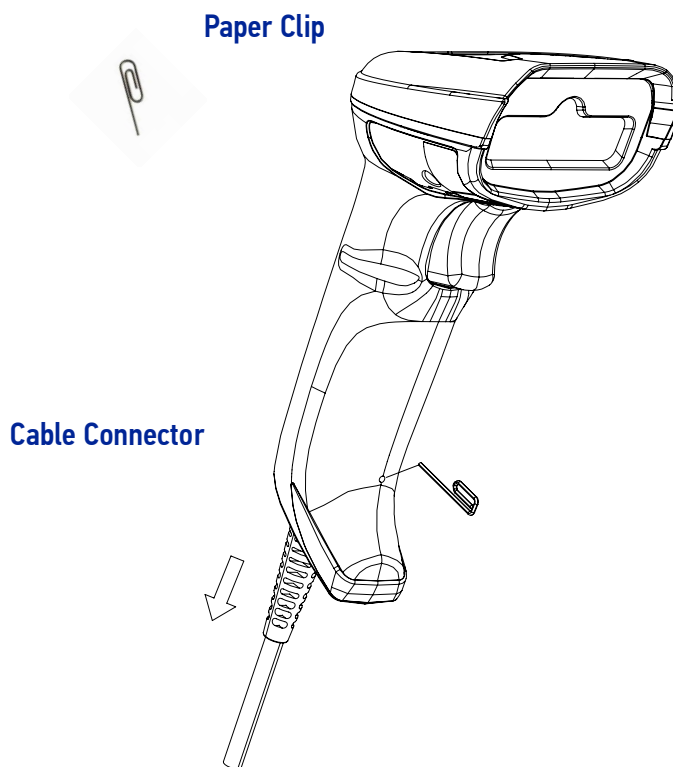
The scanner can communicate using the interface illustrated below.

When inserting the cable, make sure the connector clip is on the same side as the reader release hole. Insert the cable, it should click when it is fully inserted.

To remove the interface cable from the reader, first locate the hole on the front of the handle. Next, take a paper clip and modify it as shown in the figure below. Insert the end of the paper clip into the hole and press it to push on the clip that holds the connector. As you apply pressure, pull out the cable.



NOTE: We recommend the use of a perfectly straight new paper clip to make the operation easier (see the figure below).

Figure 2. Cable Connection/Disconnection at the Scanner

USB Connection

Connect the scanner to a USB port on the terminal/PC using the correct USB cable for the interface type you ordered.

USB: Select to communicate either by USB OEM, USB COM STD, or USB Keyboard interface types by scanning the appropriate interface type bar codes available in this manual. The default interface is USB-KBD.

Figure 3 - Connection to the Host

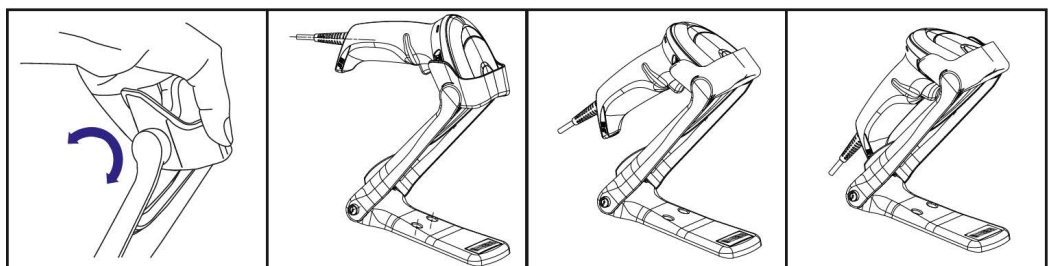
NOTE: Specific cables are required for connection to different hosts. The connections illustrated in Figure 3 are examples only. Actual connectors may vary from those illustrated, but the steps to connect the scanner remain the same.

HANDS FREE STAND/HOLDER

An accessory is available which holds the reader at a convenient angle, allowing hands free scanning of items. It can also be used as a holder.



Figure 4- Adjusting the Stand Arm



Grab and Rotate

Besides the collapsible stand shown in the picture above, all the stands of the Quick-Scan 2500 Series (2D scanners) are also available and compatible with the QD2200 Series, but the auto-sense capability is not active with the QuickScan QD2200.

See [page 50](#) to change Scan Mode and allow the user to operate in hands-free mode.

Figure 5 - Compatible stands for QD2200



STD-AUTO-QD25-BK
Stand, Autosense, Black

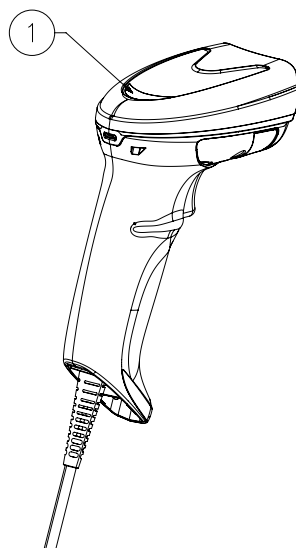


STD-AUTFLX-QD25-BK
Stand, Autosense Flex, Black

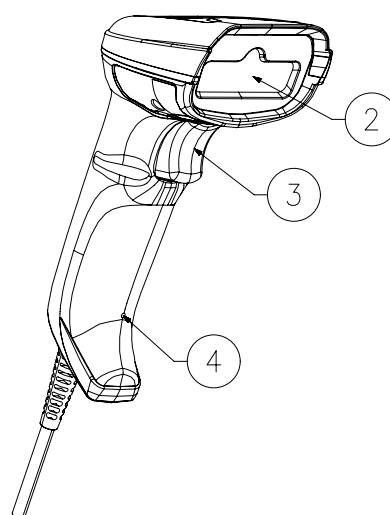
PARTS OF THE READER

LEDs on the gun provide information about data transmission.

Figure 6 - Quickscan™ QD2200 Gun LEDs



1. LED
2. Scan Window



3. Trigger
4. Cable Release Hole

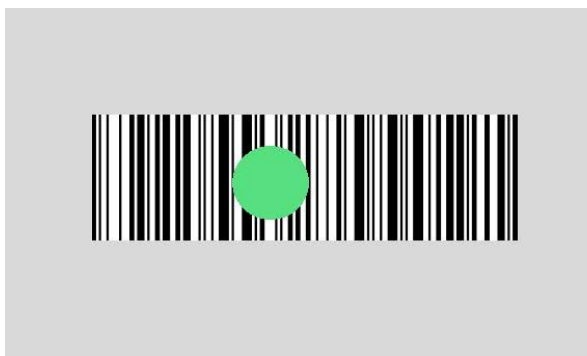
USING THE QUICKSCAN™ I QD2200

The Quickscan™ I QD2200 normally functions by capturing and decoding codes.

Bar Code Reading

Point the reader at the target and pull the trigger to enable the illuminator (red beam) to decode the bar code label. The illuminator will remain on until the symbol is decoded. When scanning a bar code label, you can adjust the distance or angle to the label to help facilitate reading. Successful reading is signaled by an audible tone plus a good-read green spot LED indicator.

Relative Size and Location of Green Spot



INTERFACE SELECTION

Upon completing the physical connection between the scanner and its host, proceed directly to "[Configuring the Interface](#)" on [page 9](#) for information and programming for the interface type the scanner is connected to (for example: USB etc.) and scan the appropriate bar code in that section to select your system's correct interface type.

The scanner will support all the following sets of host interfaces:

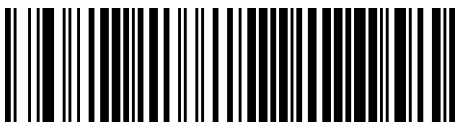
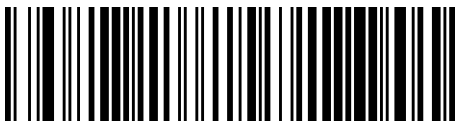
- USB HID POS
- USB Toshiba TEC
- USB (Keyboard, COM, OEM)
- USB Composite (Keyboard + COM)
- USB for Magellan Scanners

CONFIGURING THE INTERFACE

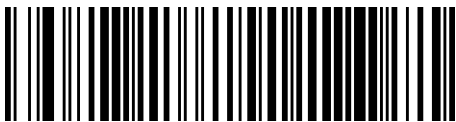
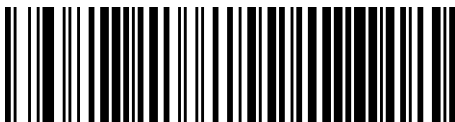
Scan the programming bar code from the following section which selects the appropriate interface type to match the system the scanner will be connected to. Next, proceed to the corresponding chapter in this manual (also listed in the table) to configure any desired settings and features associated with that interface.



NOTE: Unlike some other programming features and options, interface selections require that you scan only one programming bar code label. **DO NOT** scan an ENTER/EXIT bar code prior to scanning an interface selection bar code. Some interfaces require the scanner to start in the disabled state when powered up. If additional scanner configuration is desired while in this state, pull the trigger and hold for 5 seconds. The scanner will change to a state that allows programming with bar codes.

USB-COM ^A	
 Select USB-COM-STD	USB-COM
USB-Composite (combines USB-KBD emulation and USB-COM)	 Select USB-Composite

a. USB-COM driver needs to be installed for these interfaces to work. Please download it from www.datalogic.com

OTHER INTERFACES	
USB HID POS	 Select USB HID POS
 Select USB Toshiba TEC	USB Toshiba TEC
Datalogic Magellan Scanners' specific interface, USB AUX	 Select Datalogic Magellan Scanners' USB AUX

USB-OEM



Select USB-OEM

USB-OEM
(can be used for OPOS/UPOS/JavaPOS)



NOTE: If you erroneously read the USB-OEM interface selection code, it is required to press and hold the trigger to unlock the reader. Then read the correct interface bar code. This will work only at power-up. Please reconnect the scanner if the unlock is not successful.

KEYBOARD

USB Keyboard with standard key encoding



Select USB Standard Keyboard



Select USB Alternative Keyboard

USB Keyboard with alternative key encoding

CUSTOMIZING CONFIGURATION SETTINGS

Using the Programming Bar Codes

This manual contains feature descriptions and bar codes which allow you to reconfigure your scanner. Some programming bar code labels, like [Resetting the Product Configuration to Defaults, starting on page 12](#), require only the scan of that single label to enact the change.

Most of the programming labels in this manual, however, require the scanner to be placed in Programming Mode prior to scanning them. Scan an ENTER/EXIT bar code once to enter Programming Mode. Once the scanner is in Programming Mode, you can scan a number of parameter settings before scanning the ENTER/EXIT bar code a second time, which will then accept your changes, exit Programming Mode and return the scanner to normal operation.



NOTE: There are some exceptions to the typical programming sequence described above. Please read the description and setting instructions carefully when configuring each given programmable feature.

Datalogic Aladdin™ Utility

Programming can alternatively be performed using the Datalogic Aladdin™ Configuration application which is available for free download from the Datalogic website listed on the back cover of this manual. This multi-platform utility program allows device configuration using a PC. It communicates to the device using a USB cable and can also create configuration bar codes to print.

Datalogic Aladdin™ is a multi-platform utility program providing a quick and user-friendly configuration method via the USB-COM interface. The Aladdin utility is available on the Datalogic website. Aladdin allows you to program the scanner by selecting configuration commands through a user-friendly graphical interface running on a PC. These commands are sent to the scanner over the selected communication interface, or they can be printed as bar codes to be scanned.

Aladdin also provides the ability to perform a software upgrade for the connected device (see the Datalogic Aladdin™ Help On-Line for more details).

Interface Settings

The scanner is typically factory-configured with a set of default features standard to the interface type you ordered. See [Appendix B, Standard Defaults](#).

Global Interface Features, starting on [page 16](#) provides settings configurable by all interface types. If your installation requires you to further customize your scanner, you can select other options through use of the instructions and programming bar codes available in the appropriate section for your interface.

- USB-COM INTERFACE on [page 1](#)
- KEYBOARD INTERFACE on [page 9](#)
- USB-OEM INTERFACE on [page 36](#)

Configuring Other Features

If your installation requires different programming than the standard factory default settings, the following sections of this manual allow configuration of non-interface-specific settings you might require:

Configuration Using Bar Codes: General Features includes programming for scanning, speaker and LED indicators and other such universal settings.

Reading Parameters: Reading Parameters include programming for scanning, speaker and LED indicators and other universal settings.

Software Version Transmission

The software version of the device can be transmitted over the Keyboard and USB interfaces by scanning the following label.



Transmit Software Version

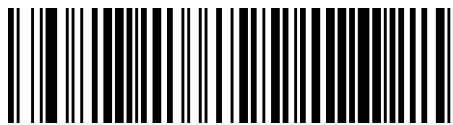
Resetting the Product Configuration to Defaults

Restore Custom Default Configuration

If you aren't sure what programming options are in your scanner, or you've changed some options and want to restore the Custom Default Configuration that may have been saved in the scanner, scan the Restore Custom Default Configuration bar code below. This will restore the custom configuration for the currently active interface.



NOTE: Custom defaults are based on the interface type. Configure the scanner for the correct interface before scanning this label.



Restore Custom Default Configuration

Restore Factory Configuration

If you want to restore the Factory Configuration for your reader, scan either the Restore USA Factory Configuration bar code or the Restore EU Factory Configuration bar code below. Both labels restore the reader configuration to the factory settings, including the interface type. The USA label restores Label IDs to those historically used in the USA. The EU label restores Label IDs to those historically used in Europe. The Label ID sets for USA and EU are shown in the “Label ID” Section on [page 41](#) of this manual.



Restore USA Factory Configuration



Restore EU Factory Configuration

The programming items listed in the following sections show the factory default settings for each of the menu commands.

CHAPTER 3

CONFIGURATION WITH BAR CODES

This and following sections provide programming bar codes to configure your reader by changing the default settings. For details about additional methods of programming, see "Customizing Configuration Settings" on page 11.



NOTE: You must first enable your PowerScan to read bar codes in order to use this section. If you have not done this, go to Setup, starting on page 4 and complete the appropriate procedure.

CONFIGURATION PARAMETERS

Once the reader is set up, you can change the default parameters to meet your application needs. Refer to [Standard Defaults, starting on page 179](#) for initial configuration in order to set the default values and select the interface for your application.



NOTE: In the following sections, text shown with a green star indicates a factory default value.

★ This is an example of a default value.

The following configuration parameters are divided into logical groups, making it easy to find the desired function based on its reference group.

Interface Configuration:

- [USB-COM Settings, starting on page 2](#)
- [Keyboard Interface, starting on page 9](#)
- [USB-OEM Interface, starting on page 36](#)

Parameters Common to all Interface Applications:

- [Global Prefix/Suffix, starting on page 39](#)
- [Data Format, starting on page 38](#) gives options to control the messages sent to the Host system by selecting parameters to control the message strings sent to the handheld.
- [Reading Parameters, starting on page 49](#) controls various operating modes and indicators status functioning.

Symbology-specific Parameters:

Symbologies, starting on page 65 defines options for all symbologies and provides the programming bar codes necessary for configuring these features.



NOTE: You must first enable your reader to read bar codes in order to use this section. If you have not done this, go to Setup, starting on page 4 and complete the appropriate procedure.

To program features:

1. Scan the ENTER/EXIT PROGRAMMING bar code, available at the top of each programming page, when applicable.
2. Scan the bar code to set the desired programming feature. You may need to cover unused bar codes on the page, and possibly the facing page, to ensure that the reader reads only the bar code you intend to scan.
3. If additional input parameters are needed, go to [Appendix D](#), and scan the appropriate characters from the keypad.



NOTE: Additional information about many features can be found in the References, starting on page 147.

If you make a mistake before the last character, scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.

4. Complete the programming sequence by scanning the ENTER/EXIT PROGRAMMING bar code to exit Programming Mode.

For more detailed descriptions, programming information and examples for setting selected configuration items, see [References, starting on page 147](#).



GLOBAL INTERFACE FEATURES

The following interface features are configurable by all interface types.

To set features specific to your interface, turn to that section of this manual.

Host Commands — Obey/Ignore

This option specifies whether the reader will obey or ignore host commands. When set to ignore, the reader will ignore all host commands except those necessary for:

- service mode
- flash programming mode
- keeping the interface active
- transmission of labels.



★ Host Commands = Obey
(Do Not Ignore Host Commands)



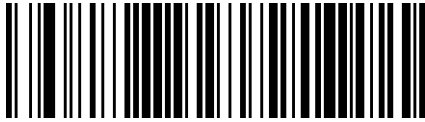
Host Commands = Ignore

USB Suspend Mode

This setting enables/disables the ability of USB interfaces to enter suspend mode.



★ USB Suspend Mode = Disable



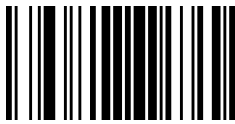
USB Suspend Mode = Enable

CONFIGURATION | USB-COM INTERFACES

SECTION CONTENTS	
•Intercharacter Delay •Beep On ASCII BEL •Beep On Not on File •ACK NAK Options •ACK Character •NAK Character	•ACK NAK Timeout Value •ACK NAK Retry Count •ACK NAK Error Handling •Indicate Transmission Failure •Disable Character •Enable Character

Standard Factory Settings

Reference [Appendix B](#), for a listing of standard factory settings.



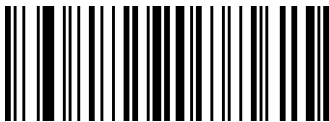
USB-COM SETTINGS

Intercharacter Delay

This parameter specifies the intercharacter delay between the end of one character and the beginning of the next. The delay can be set within a range of zero (0) to 990 milliseconds in 10ms increments. A setting of zero specifies no delay. See "[Intercharacter Delay](#)" on [page 147](#) for more detailed programming instructions.



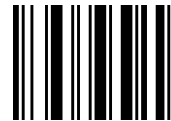
Intercharacter Delay = No Delay



Select Intercharacter Delay Setting

To configure this feature, scan the ENTER/EXIT bar code above, then the bar code at left followed by digits from the Alphanumeric characters in [Appendix D](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★00 = No Intercharacter Delay



Beep On ASCII BEL

When this parameter is enabled, the scanner issues a beep when a <BEL> character is detected on the serial line. <BEL> is issued to gain a user's attention to an illegal entry or other important event.



★ Beep On ASCII BEL = Disable



Beep On ASCII BEL = Enable

Beep On Not on File

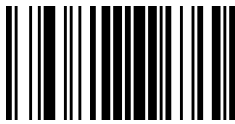
This option enables/disables the action of the scanner to sound a three beep sequence upon receiving a Not-On-File (NOF) host command.



Beep On Not On File = Disable



★ Beep On Not On File = Enable



ACK NAK Options

This enables/disables the ability of the scanner to support the ACK/NAK protocol. When configured, the scanner and/or host sends an “ACK” when it receives data properly, and sends “NAK” when the data is in error.

Options are:

- Disable
- Enable for label transmission — The scanner expects an ACK/NAK response from the host when a label is sent.
- Enable for host-command acknowledge — The scanner will respond with ACK/NAK when the host sends a command.
- Enable for label transmission and host-command acknowledge



★ ACK/NAK Protocol = Disable ACK/NAK



ACK/NAK Protocol = Enable for label transmission



ACK/NAK Protocol = Enable for host-command
acknowledge



ACK/NAK Protocol = Enable for label transmission and
host command acknowledge



ACK Character

This setting specifies an ASCII character or hex value to be used as the ACK character. ASCII characters or any hex value from 0 to 0xFF can be selected. See "[ACK Character](#)" on [page 149](#) for more detailed programming instructions.



NOTE: Setting to previously defined characters such as XON, XOFF, or host commands conflicts with normal operation of these characters.



Select ACK Character Setting

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ 0x06 'ACK' Character

NAK Character

This setting specifies an ASCII character or hex value to be used as the NAK character. ASCII characters or any hex value from 0 to 0xFF can be selected. See "[NAK Character](#)" on [page 150](#) for more detailed programming instructions



NOTE: Setting to previously defined characters such as XON, XOFF, or host commands conflicts with normal operation of these characters.



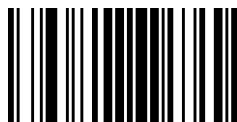
Select NAK Character Setting

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



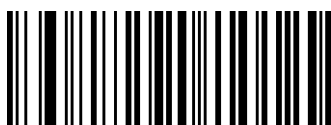
CANCEL

★ 0x15 'NAK' Character



ACK NAK Timeout Value

This option specifies the amount of time the scanner waits for an ACK character from the host following label transmission. The selectable timeout range is 200 milliseconds to 15,000ms (15 seconds) in 200ms increments. A selection of 0 disables the timeout. See "[ACK NAK Timeout Value](#)" on page 151 for more detailed programming instructions.



Select ACK NAK Timeout Value Setting

To configure this feature, scan the ENTER/EXIT bar code above, then the bar code at left followed by digits from the Alphanumeric characters in [Appendix D](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.

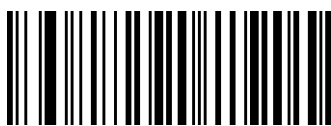


CANCEL

★01 ACK NAK Timeout value is 200ms

ACK NAK Retry Count

This feature specifies the number of times the scanner retries a label transmission due to a retry condition. The selectable range is from 1 to 254 retries. A selection of 0 disables the count, and a selection of 255 specifies unlimited retries. See "[ACK NAK Retry Count](#)" on page 152 for more detailed programming instructions.



Select ACK NAK Retry Count Setting

To configure this feature, scan the ENTER/EXIT bar code above, then the bar code at left followed by digits from the Alphanumeric characters in [Appendix D](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★003 = 3 Retries



ACK NAK Error Handling

This feature specifies the method the scanner uses to handle receive errors detected while waiting for an ACK character from the host.

Options are:

- Ignore errors detected
- Process error as valid ACK character
- Process error as valid NAK character



★ ACK NAK Error Handling = Ignore Errors Detected



ACK NAK Error Handling = Process Error as
Valid ACK Character



ACK NAK Error Handling = Process Error as
Valid NAK Character

Indicate Transmission Failure

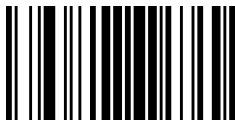
This option enables/disables the scanner's ability to sound an error beep to indicate a transmission failure while in ACK/NAK mode.



Indicate Transmission Failure = Disable Indication



★ Indicate Transmission Failure = Enable Indication



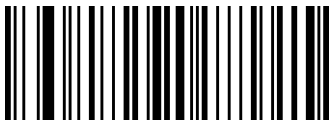
Disable Character

Specifies the value of the host command used to disable the scanner.

ASCII characters or any hex value from 0 to 0xFF can be selected. See "[Disable Character](#)" on page 153 for more detailed programming instructions.



Setting to previously defined characters such as XON, XOFF, or host commands conflicts with normal operation of these characters.



Select Disable Character Setting

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ 0x44 = Disable Character is 'D'

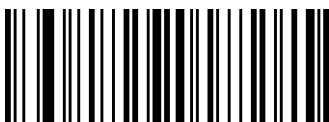
Enable Character

Specifies the value of the host command used to enable the scanner.

ASCII characters or any hex value from 0 to 0xFF can be selected. See "[Enable Character](#)" on page 154 for more detailed programming instructions



Setting to previously defined characters such as XON, XOFF, or host commands conflicts with normal operation of these characters.



Select Enable Character Setting

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ 0x45 = Enable Character is 'E'

CONFIGURATION | KEYBOARD INTERFACE

SECTION CONTENTS	
COUNTRY MODE starting on page 10	
•Setting Country Mode	
OTHER KEYBOARD PARAMETERS starting on page 25	
•Encoding Type •ALT Output Type •Keyboard Numeric Keypad •Keyboard Send Control Characters •Intercharacter Delay	•Intercode Delay •USB Keyboard Speed

Use the programming bar codes in this chapter to select options for USB Keyboard. Reference [Appendix B](#), for a listing of standard factory settings. Information about control character emulation which applies to keyboard interfaces is listed in [Appendix E](#), Scan-code Tables.

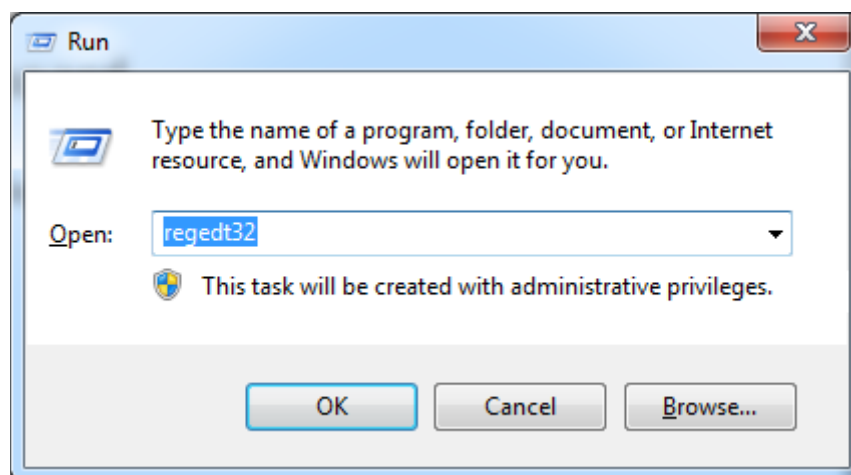
COUNTRY MODE

This feature specifies the country/language supported by the keyboard.

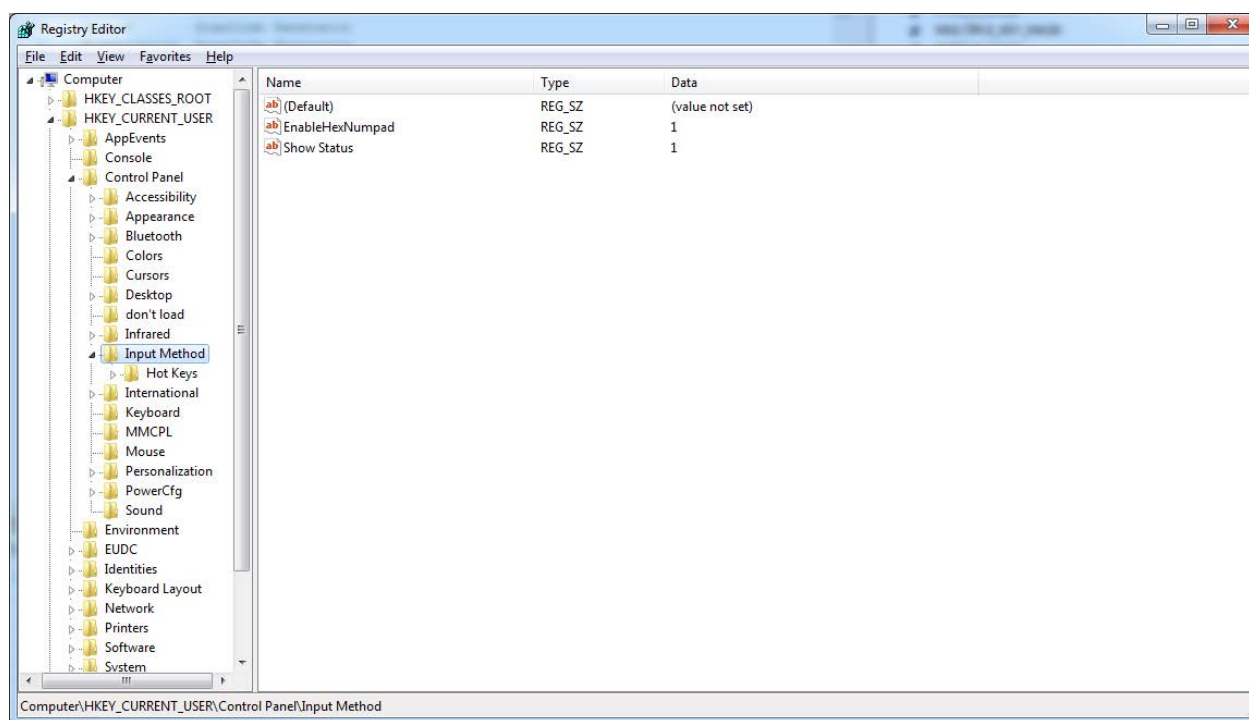
The Country Mode setting is ignored if the interface uses alternate key encoding.

SETUP ON PC TO USE ALT UNIVERSAL

1. Open Registry Edit



2. Set EnableHexNumpad to 1 as follows:



3. Reset the PC.



Setting Country Mode



★ United States



French International (Belgian French)



United Kingdom



Danish



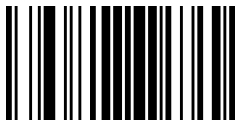
French (France)



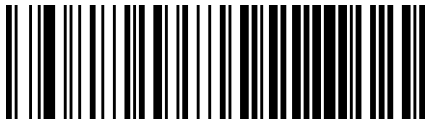
German



Italian



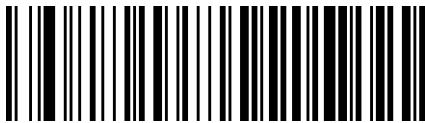
Setting Country Mode (continued)



Norwegian



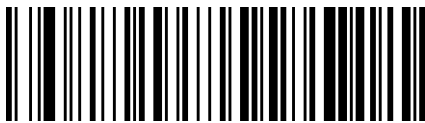
Portuguese (Portugal)



Spanish



Swedish



Swiss French



Japanese ASCII



Hungarian



Setting Country Mode (continued)



Czech



Slovak



Romanian



Croatian



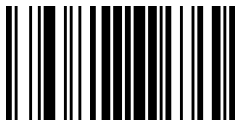
Polish_214



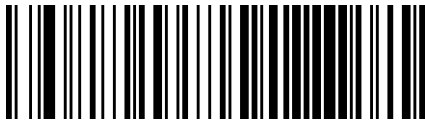
French Canadian Win7



Lithuanian



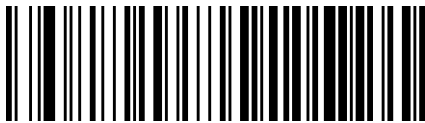
Setting Country Mode (continued)



Vietnamese



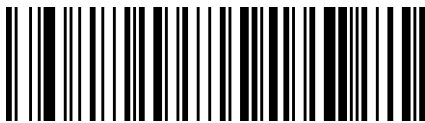
Russian



Arabic 101



Chinese ASCII



Thai-Kedmanee



Albanian



Arabic 102



Setting Country Mode (continued)



Arabic 102 AZERTY



Azeri Cyrillic



Azeri Latin



Belarusian



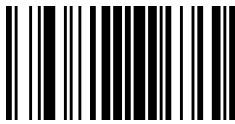
Bosnian Cyrillic



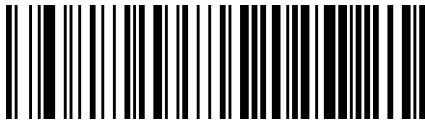
Bosnian Latin



Bulgarian Cyrillic



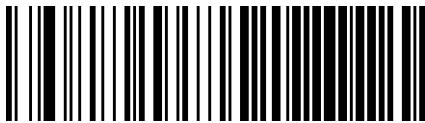
Setting Country Mode (continued)



Bulgarian Latin



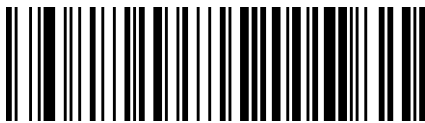
Canadian French (Legacy)



Canadian Multilingual



Chinese (Simplified)



Chinese (Traditional)



Czech Programmers



Czech QWERTY



Setting Country Mode (continued)



Dutch Netherland



Estonian



Faeroese



Finnish



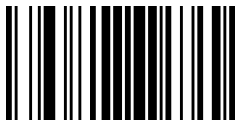
French (Canada) 2000/XP



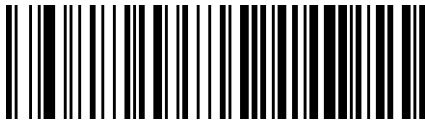
French (Canada) 95/98



Galician



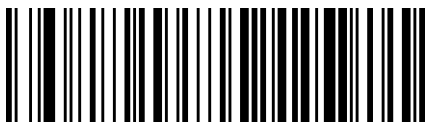
Setting Country Mode (continued)



Greek



Greek Latin



Greek Polytonic



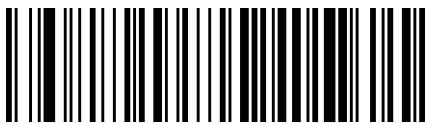
Greek220



Greek220 Latin



Greek319



Greek319 Latin



Setting Country Mode (continued)



Hebrew Israel



Hungarian_101KEY



Icelandic



Irish



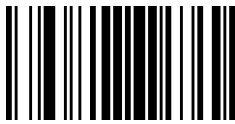
Italian_142



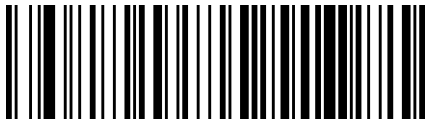
Japanese (Shift-JIS)



Kazakh



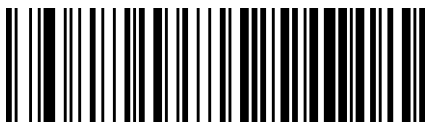
Setting Country Mode (continued)



Korean (Hangul)



Korean ASCII



Kyrgyz Cyrillic



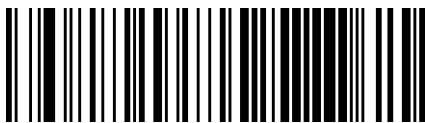
Latin America



Latvian



Latvian QWERTY



Lithuanian_IBM

Setting Country Mode (continued)



Macedonian -FYROM



Maltese_47KEY



Mongolian-Cyrillic



Polish Programmer



Portuguese Brazil



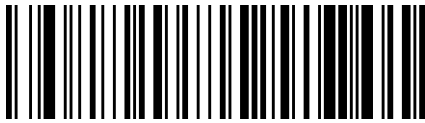
Portuguese Brazilian ABNT



Portuguese Brazilian ABNT2



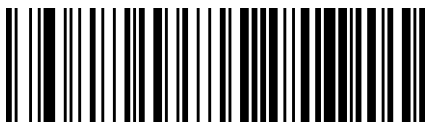
Setting Country Mode (continued)



Romanian Legacy



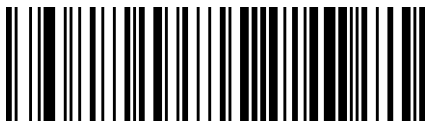
Romanian Programmer



Romanian Standard



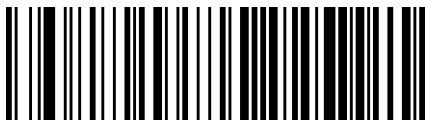
Russian Typewriter



Serbian Cyrillic



Serbian Latin



Slovak QWERTY



Setting Country Mode (continued)



Slovenian



Spanish Variation



Swiss German



Tatar



Turkish F



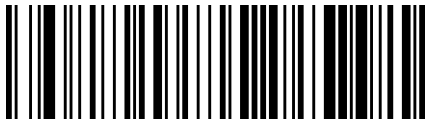
Turkish Q



Ukrainian



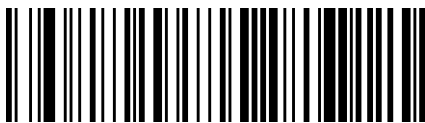
Setting Country Mode (continued)



US Dvorak



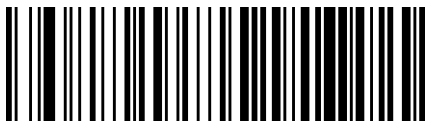
US Dvorak Left Hand



US Dvorak Right Hand



US English (Mac)



US English (North American)



US International



Uzbek Cyrillic



OTHER KEYBOARD PARAMETERS

Encoding Type



Encoding Type = Don't Use Encoding



Encoding Type = UTF_8



Encoding Type = Windows 874



Encoding Type = Windows 932



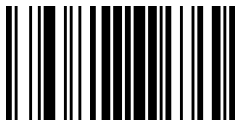
Encoding Type = Windows 936



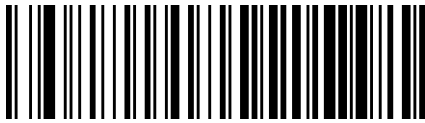
Encoding Type = Windows 949



Encoding Type = Windows 950



Encoding Type (continued)



Encoding Type = Windows 1250



Encoding Type = Windows 1251



Encoding Type = Windows 1252



Encoding Type = Windows 1253



Encoding Type = Windows 1254



Encoding Type = Windows 1255



Encoding Type = Windows 1256



Encoding Type (continued)



Encoding Type = Windows 1257



Encoding Type = Windows 1258



Encoding Type = Windows 20866



Encoding Type = Windows 54936



Encoding Type = ISO 8859-1



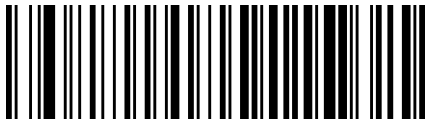
Encoding Type = ISO 8859-2



Encoding Type = ISO 8859-3



Encoding Type (continued)



Encoding Type = ISO 8859-4



Encoding Type = ISO 8859-5



Encoding Type = ISO 8859-6



Encoding Type = ISO 8859-7



Encoding Type = ISO 8859-8



Encoding Type = ISO 8859-9



Encoding Type = ISO 8859-10



Encoding Type (continued)



Encoding Type = ISO 8859-11



Encoding Type = ISO 8859-13



Encoding Type = ISO 8859-14



Encoding Type = ISO 8859-15



Encoding Type = ISO 8859-16



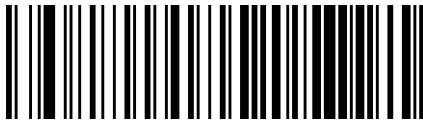
Encoding Type = MS-DOS 437



Encoding Type = MS-DOS 737



Encoding Type (continued)



Encoding Type = MS-DOS 775



Encoding Type = MS-DOS 850



Encoding Type = MS-DOS 852



Encoding Type = MS-DOS 855



Encoding Type = MS-DOS 857



Encoding Type = MS-DOS 860



Encoding Type = MS-DOS 861



Encoding Type (continued)



Encoding Type = MS-DOS 862



Encoding Type = MS-DOS 863



Encoding Type = MS-DOS 865



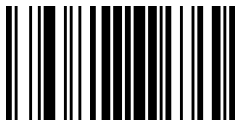
Encoding Type = MS-DOS 866



Encoding Type = MS-DOS 869

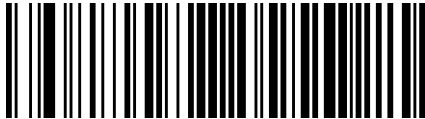


Encoding Type = Mac CP10000

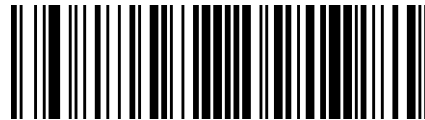


ALT Output Type

This option specifies the encode type of ALT Mode when the scanner sends Output Keyboard Data in Alt Mode. (Be aware that the scanner may switch automatically between ALT mode & Normal Keyboard Scancode, to correctly display some characters that are not present in the current Keyboard Country).



ALT Output Type = ALT Codepage
(use on non Unicode application: Notepad)



★ ALT Output Type = ALT Unicode
(use on Unicode application: Word)



ALT Output Type = ALT Universal
(Use for all)



ALT Output Type = ALT Unicode for Linux



Keyboard Numeric Keypad

This feature specifies if numeric characters will be sent using the standard keys or the numeric keypad.



★ Keyboard Numeric Keypad = Standard Keys



Keyboard Numeric Keypad = Numeric Keypad

Keyboard Send Control Characters

This feature is used by the USB Keyboard interfaces. It specifies how the scanner transmits ASCII control characters to the host. Reference [Appendix E Scancode Tables](#) for more information about control characters.

Options are as follows:

Send Ctrl+Key : ASCII characters from 00H to 0x1FH inclusive are transmitted in the format Ctrl+Key. Special keys are available in the range from 81H to A1.

Send Ctrl+Shift+Key : The behavior is the same as above, but control keys are sent in the format Ctrl+Shift+Keys.

Send Special Function Key : Send characters between 00H and 1FH according to the special function key mapping table (see "[Interface Type PC AT PS/2 Alt Mode or USB-Keyboard Alt Mode](#)" on page 196). This is used to send keys that are not in the normal ASCII set. A unique set is provided for each available scancode set.



★ Keyboard Send Control Characters = Send Ctrl+Key



Keyboard Send Control Characters = Send Ctrl+Shift+Key

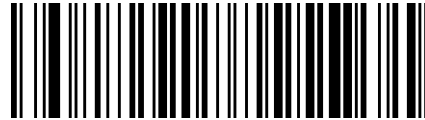


Keyboard Send Control Characters = Send Special Function Key



Intercharacter Delay

This parameter specifies the intercharacter delay between the end of one character and the beginning of the next. The delay can be set within a range of zero (0) to 990 milliseconds in 10ms increments. A setting of zero specifies no delay. See "[Intercharacter Delay](#)" on page 155 for more detailed programming instructions.



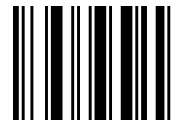
Intercharacter Delay = No Delay



Select Intercharacter Delay Setting

To configure this feature, scan the ENTER/EXIT bar code above, then the bar code at left followed by digits from the Alphanumeric characters in [Appendix D](#), Keypad representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★00 = No Intercharacter Delay

Intercode Delay

Specifies the delay between labels transmitted to the host for this interface. The selectable range for this feature is from 0 to 99 seconds. See "[Intercode Delay](#)" on page 156 for more detailed programming instructions



Set Intercode Delay

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D](#), Keypad representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★00 = No Intercode Delay



USB Keyboard Speed

This option specifies the USB poll rate for a USB Keyboard.



NOTE: This feature applies ONLY to the USB Keyboard interface.



★ USB Keyboard Speed = 1ms



USB Keyboard Speed = 2ms



USB Keyboard Speed = 3ms



USB Keyboard Speed = 5ms



USB Keyboard Speed = 7ms



USB Keyboard Speed = 10ms

CONFIGURATION | USB-OEM INTERFACE

SECTION CONTENTS	
•USB-OEM Device Usage	•USB-OEM Interface Options



USB-OEM Device Usage

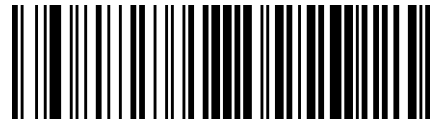
The USB-OEM protocol allows for the scanner to be identified as one of two different types of bar code scanners. Depending on what other scanners you may already have connected to a USB-OEM POS, you may need to change this setting to enable all devices to communicate.

Options are:

- Tabletop Scanner
- Handheld Scanner



NOTE: This feature is not compatible with Multiple Labels Reading in a Volume.



USB-OEM Device Usage = Tabletop Scanner



★ USB-OEM Device Usage = Handheld Scanner

USB-OEM Interface Options

This setting provides for an interface specific control mechanism.

Options are:

- Obey — Obey Scanner Configuration Host Commands
- Ignore — Ignore Scanner Configuration Host Commands



★ Interface Options = Obey Scanner Configuration
Host Commands



Interface Options = Ignore Scanner Configuration
Host Commands

CONFIGURATION | DATA FORMAT

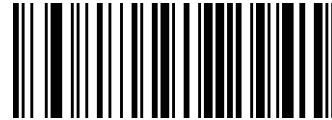
SECTION CONTENTS	
•Global Prefix/Suffix •Global AIM ID	•GS1-128 AIM ID
LABEL ID starting on page 41	
•Label ID: Pre-loaded Sets •Label ID: Set Individually Per Symbology	•Label ID Control •Label ID Symbology Selection
•Case Conversion	•Character Conversion



Global Prefix/Suffix

Up to 20 ASCII characters may be added as a prefix (in a position before the bar code data) and/or as a suffix (in a position following the bar code data). See "Global Prefix/Suffix" on page 158 for more detailed programming instructions.

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at right followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.



Set Global Prefix

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.



Set Global Suffix

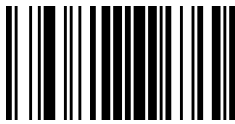
Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ No Global Prefix

★ Global Suffix = 0x0D(CR)



Global AIM ID



NOTE: This feature enables/disables addition of AIM IDs for all symbology types.

AIM label identifiers (as opposed to custom characters you select yourself as with label identifiers) can be included with scanned bar code data. See "Global AIM ID" on page 159 for more detailed programming instructions.



★ Global AIM ID = Disable



Global AIM ID = Enable

GS1-128 AIM ID

If Global AIM ID is disabled, the AIM ID for GS1-128 can be enabled/disabled independently. The AIM ID for GS1-128 is a]C1,]C2.

AIM IDs for other symbologies can be enabled/disabled independently as well. Contact Customer Support for assistance.



GS1-128 AIM ID = Disable



★ GS1-128 AIM ID = Enable



LABEL ID

A Label ID is a customizable code of up to three ASCII characters (each can be one of hex 0x01-0xFF), used to identify a bar code (symbology) type. It can be appended previous to or following the transmitted bar code data depending upon how this option is enabled. This feature provides options for configuring custom Label IDs as a pre-loaded set (see "Label ID: Pre-loaded Sets" below) or individually per symbology (see "[Label ID: Set Individually Per Symbology](#)" on page 42). If you wish to program the scanner to always include an industry standard label identifier for ALL symbology types, see the previous feature "[Global AIM ID](#)" on page 40.

Label ID: Pre-loaded Sets

The scanner supports two pre-loaded sets of Label IDs, the USA set and the EU set. See "[Label ID: Pre-loaded Sets](#)" on page 160 for more information concerning the pre-loaded sets that are provided.



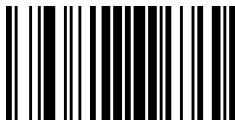
CAUTION: When changing from one Label ID set to another, all other scanner configuration settings, including the host interface type, will be erased and set to the factory defaults. Any custom configuration or custom defaults will be lost.



★ Label ID Pre-loaded Set = USA Set



Label ID Pre-loaded Set = EU Set



Label ID: Set Individually Per Symbology

This feature configures a Label ID individually for a single symbology.



NOTE: This setting requires the scanning of bar codes from multiple sections. See "Label ID: Set Individually Per Symbology" on page 162 for more detailed programming instructions.

Label ID Control

This option controls whether a Label ID is disabled, or sent as a prefix or suffix for a given symbology type.



★ Label ID Transmission = Disable



Label ID Transmission = Enable as Prefix



Label ID Transmission = Enable as Suffix



Label ID Symbology Selection

This option selects the symbology for which a Label ID is to be configured. See "[Label ID: Set Individually Per Symbology](#)" on page 162 for full instructions.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL



Set UPC-A Label ID Character(s)



Set UPC-A/P2 Label ID Character(s)



Set UPC-A/P5 Label ID Character(s)



Set UPC-E Label ID Character(s)



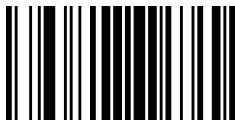
Set UPC-E/P2 Label ID Character(s)



Set UPC-E/P5 Label ID Character(s)



Set EAN-13 Label ID Character(s)



Label ID Symbology Selection (continued)



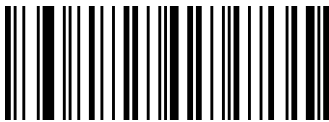
Set EAN-13/P2 Label ID Character(s)



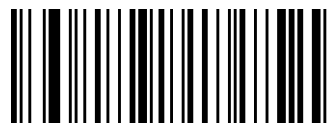
Set EAN-13/P5 Label ID Character(s)



Set ISBN Label ID Character(s)



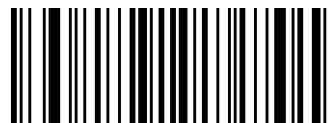
Set ISSN Label ID Character(s)



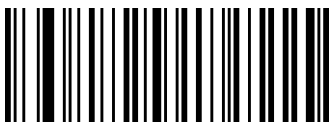
Set EAN-8 Label ID Character(s)



Set EAN-8/P2 Label ID Character(s)

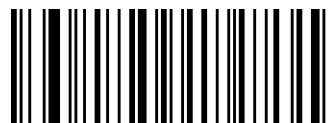


Set EAN-8/P5 Label ID Character(s)



Set GS1 DataBar Omnidirectional Label ID Character(s)

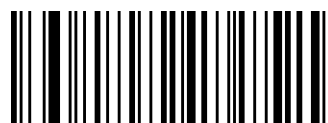
Label ID Symbology Selection (continued)



Set GS1 DataBar Expanded Label ID Character(s)



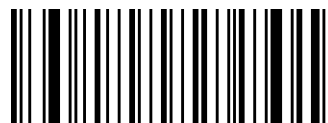
Set GS1 DataBar Limited Label ID Character(s)



Set Code 39 Label ID Character(s)



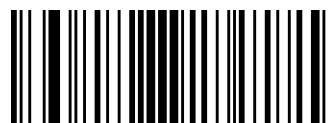
Set Code 32 Label ID Character(s)



Set Code 39 CIP Label ID Character(s)



Set Code 128 Label ID Character(s)



Set Code GS1-128 Label ID Character(s)



Set Interleaved 2 of 5 Label ID Character(s)



Label ID Symbology Selection (continued)



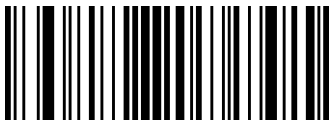
Set Interleaved 2 of 5 CIP HR Label ID Character(s)



Datalogic 2 of 5 Label ID Character(s)



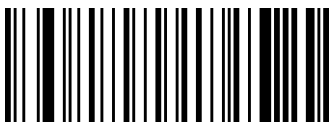
Standard 2 of 5 Label ID Character(s)



Industrial 2 of 5 Label ID Character(s)



IATA Label ID Character(s)



Codabar Label ID Character(s)



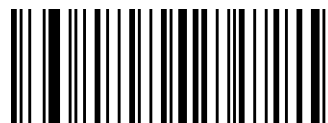
ABC Codabar Label ID Character(s)



ISBT 128 Label ID Character(s)
(single and concatenated)



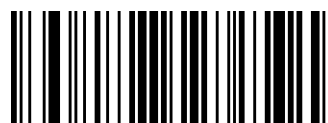
Label ID Symbology Selection (continued)



Code 11 Label ID Character(s)



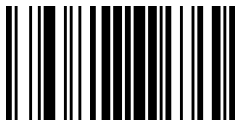
MSI Label ID Character(s)



Plessey Label ID Character(s)



Anker Plessey Label ID Character(s)

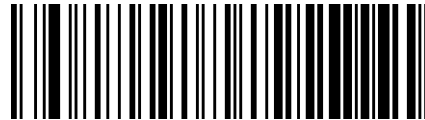


Case Conversion

This feature allows conversion of the case of all alphabetic characters to upper or lower case.



NOTE: Case conversion affects ONLY scanned bar code data, and does not affect Label ID, Prefix, Suffix, or other appended data.



★ Case Conversion = Disable (no case conversion)



Case Conversion = Convert to upper case



Case Conversion = Convert to lower case

Character Conversion

Character conversion is an eight byte configuration item. The eight bytes are 4 character pairs represented in hexadecimal ASCII values. The first character in the pair is the character that will be converted. The second character in the pair is the character to convert to. If the character to convert in a pair is FF, then no conversion is done. See "[Character Conversion](#)" on page 164 for more detailed programming instructions.



Configure Character Conversion

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.

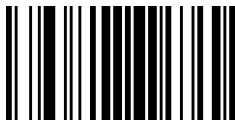


CANCEL

★ 0xFFFFFFFFFFFFFFF
(no character conversion)

CONFIGURATION | READING PARAMETERS

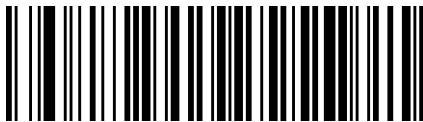
SECTION CONTENTS	
SCANNING FEATURES starting on page 50	
•Scan Mode •Scanning Active Time •Flash On Time •Flash Off Time •Double Read Timeout	•Stand Mode/Object Detection Sensitivity •Stand Mode/Object Detection Sensitivity •Stand Mode/Object Detection Sensitivity •Stand Mode/Object Detection Illumination Off Time
BEEPER CONTROL starting on page 56	
•Power On Alert •Good Read Beep Type •Good Read Beep Frequency	•Good Read Beep Length •Good Read Beep Volume
LED CONTROL starting on page 60	
•Green LED Good Read Enable •Good Read LED Duration	•Good Read: When to Indicate •Green Spot Duration •Illuminator Intensity (Power Level)



SCANNING FEATURES

Scan Mode

Selects the reader's scan operating mode. See [page 165](#) in "References" for descriptions.



★ Scan Mode = Trigger Single



Scan Mode = Trigger Hold Multiple



Scan Mode = Trigger Pulse Multiple



Scan Mode = Flashing



Scan Mode = Always On



Scan Mode = Stand Mode



Scan Mode = Trigger Object Sense



Scanning Active Time

This setting specifies the amount of time that the reader stays in scan ON state once the state is entered. The range for this setting is from 1 to 255 seconds in 1-second increments. See [page 166](#) in “References” for further description of this feature.



Scanning Active Time = 3 seconds



★ Scanning Active Time = 5 seconds



Scanning Active Time = 8 seconds

Flash On Time

This feature specifies the ON time for the indicator LED while in Flash Mode. The selectable range is 100 to 9,900 milliseconds (0.1 to 9.9 seconds), in 100 millisecond increments. See [page 167](#) in “References” for detailed information on setting this feature.



Select Flash ON Time Setting

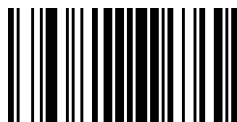
To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ 10 = Flash is ON for 1 Second



Flash Off Time

This feature specifies the OFF time for the indicator LED while in Flash Mode. The selectable range is 100 to 9,900 milliseconds (0.1 to 9.9 seconds), in 100 millisecond increments. See [page 168](#) in “References” for detailed information on setting this feature.



Select Flash OFF Time Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★06 = Flash is OFF for 600ms

Double Read Timeout

Double Read Timeout prevents a double read of the same label by setting the minimum time allowed between reads of labels of the same symbology and data. If the unit reads a label and sees the same label again within the specified timeout, the second read is ignored. Double Read Timeout does not apply to scan modes that require a trigger pull for each label read.



Double Read Timeout = 0.1 Second



Double Read Timeout = 0.2 Second



Double Read Timeout = 0.3 Second



Double Read Timeout = 0.4 Second

Double Read Timeout (continued)

★ Double Read Timeout = 0.6 Second



Double Read Timeout = 0.5 Second



Double Read Timeout = 0.7 Second



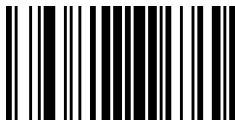
Double Read Timeout = 0.8 Second



Double Read Timeout = 0.9 Second

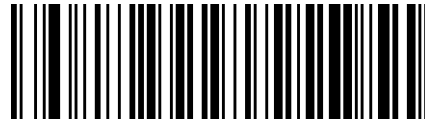


Double Read Timeout = 1 Second



Stand Mode/Object Detection Sensitivity

Sets the sensitivity level for stand mode/object detection wakeup. Choices are low, medium and high.



Stand/Base Detection Sensitivity = Low



★ Stand/Base Detection Sensitivity = Medium



Stand/Base Detection Sensitivity = High



Stand Mode/Object Detection Illumination Off Time

Specifies the amount of time reader illumination stays off after pulling the trigger when in Stand Mode/Object Detection. The configurable range is 01 to 32 by 01 in increments of 500ms (500ms to 16 seconds).



Set Illumination OFF Time

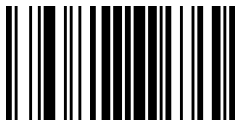
To configure, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

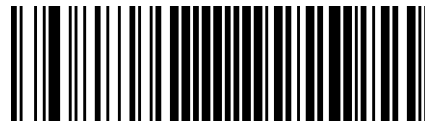
★04 = Illumination OFF Time 2 second



BEEPER CONTROL

Power On Alert

Disables or enables the indication (from the Beeper) that the reader is receiving power.



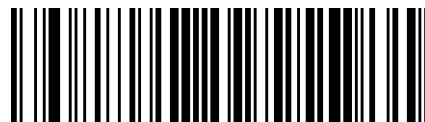
Power On Alert = Disable (No Audible Indication)



★ Power On Alert = Power-up Beep

Good Read Beep Type

Specifies whether the good read beep has a mono or bitonal beep sound.



★ Good Read Beep Type = Mono



Good Read Beep Type = Bitonal



Good Read Beep Frequency

Adjusts the good read beep to sound at a selectable low, medium or high frequency, selectable from the list below. (Controls the beeper's pitch/tone.)



Good Read Beep Frequency = Low



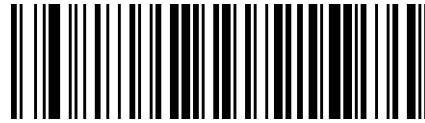
Good Read Beep Frequency = Medium



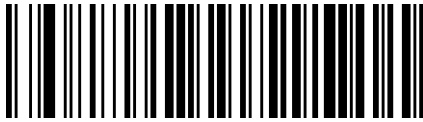
★ Good Read Beep Frequency = High



Good Read Beep Length



Good Read Beep Length = 60 msec



★ Good Read Beep Length = 80 msec



Good Read Beep Length = 100 msec



Good Read Beep Length = 120 msec



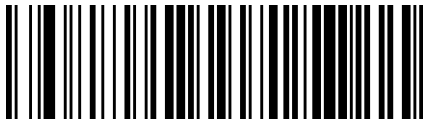
Good Read Beep Length = 140 msec



Good Read Beep Length = 160 msec



Good Read Beep Length = 180 msec



Good Read Beep Length = 200 msec



Good Read Beep Volume

Selects the beeper volume (loudness) upon a good read beep. There are three selectable volume levels.



Good Read Beep Volume = Low



Good Read Beep Volume = Beeper Off



Good Read Beep Volume = Medium



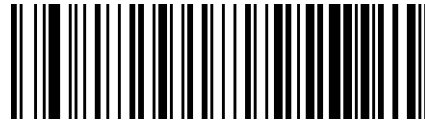
★ Good Read Beep Volume = High



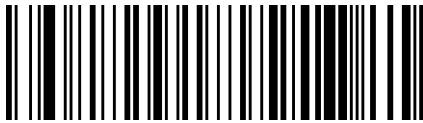
LED CONTROL

Green LED Good Read Enable

Specifies whether the green LED good read indicator is enabled or disabled.



Green LED Good Read = Disable



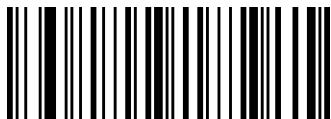
★ Green LED Good Read = Enable



Good Read LED Duration

This feature specifies the amount of time that the Good Read LED remains on following a good read. The good read LED on time can be set within a range of 100 milliseconds to 25,500 milliseconds (0.1 to 25.5 seconds) in 100ms increments.

See [page 169](#) in “References” for detailed instructions and examples for setting this feature.



Select Good Read LED Duration Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★003 = Good Read LED stays on for 300 ms.

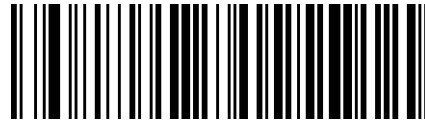


NOTE: Indicators are dimmed during sleep.

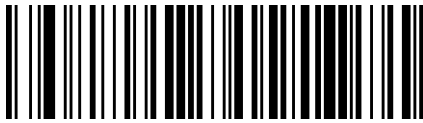


Good Read: When to Indicate

This feature specifies when the reader will provide indication (beep and/or flash its green LED) upon successfully reading a bar code.



★ Indicate Good Read = After Decode



Indicate Good Read = After Transmit



Indicate Good Read =
After CTS goes inactive then active



Green Spot Duration

Specifies the duration of the good read pointer beam after a good read.



Green Spot Duration = Disable (Green Spot is Off)



★ Green Spot Duration = Short (300 msec)



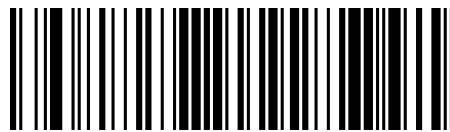
Green Spot Duration = Medium (500 msec)



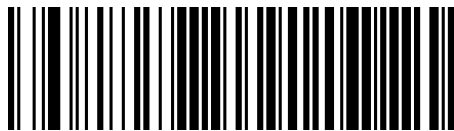
Green Spot Duration = Long (800 msec)

Illuminator Intensity (Power Level)

This setting selects the illumination level for bar code reading.



Illuminator Intensity = Low



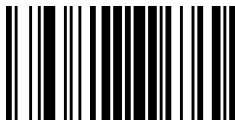
Illuminator Intensity = Medium



★ Illuminator Intensity = High

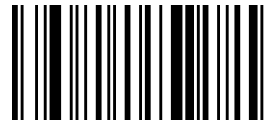
CONFIGURATION | SYMBOLOGIES

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DISABLE ALL SYMBOLOGIES starting on page 66	
• COUPON CONTROL starting on page 66	• GS1-128 starting on page 101
• UPC-A starting on page 67	• INTERLEAVED 2 OF 5 (I 2 OF 5) starting on page 101
• UPC-E starting on page 69	• INTERLEAVED 2 OF 5 CIP HR starting on page 105
• EAN-13 starting on page 72	• STANDARD 2 OF 5 starting on page 106
• EAN-8 starting on page 75	• COMPRESSED 2 OF 5 starting on page 109
• UPC/EAN GLOBAL SETTINGS starting on page 77	• DATALOGIC 2 OF 5 starting on page 112
• GS1 DATABAR™ OMNIDIRECTIONAL starting on page 82	• INDUSTRIAL 2 OF 5 starting on page 115
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• TRIOPTIC CODE starting on page 93	• ABC CODABAR starting on page 126
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• CODE 32 (ITALIAN PHARMACEUTICAL) starting on page 95	• MSI starting on page 138
• CODE 39 CIP (FRENCH PHARMACEUTICAL) starting on page 96	• PLESSEY starting on page 141
• CODE 128 starting on page 97	• BC412 starting on page 144



DISABLE ALL SYMBOLOLOGIES

Scan this label to disable all symbolologies.



Disable All Symbolologies

COUPON CONTROL

This feature is used to control the method of processing coupon labels.

Options are:

- Allow all — allow all coupon bar codes to be decoded
- Enable only UPC/EAN — enables only UPC/EAN coupon decoding
- Enable only GS1 DataBar — enables only GS1 DataBar coupon decoding

To set this feature:

1. Scan the Enter/Exit bar code.
2. Scan either the enable or disable bar code below. You'll need to cover any unused bar codes on this and the facing page to ensure that the scanner sees only the bar code you intend to scan.
3. Complete the programming sequence by scanning the Enter/Exit bar code.



Coupon Control = Allow all



★ Coupon Control = Enable only UPC/EAN



Coupon Control = Enable only GS1 DataBar



UPC-A

The following options apply to the UPC-A symbology.

UPC-A Enable/Disable

When disabled, the scanner will not read UPC-A bar codes.



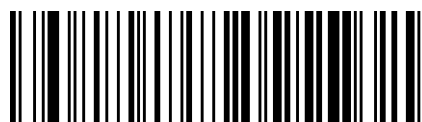
UPC-A = Disable



★ UPC-A = Enable

UPC-A Check Character Transmission

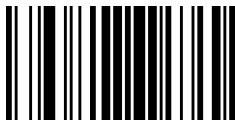
Enable this option to transmit the check character along with UPC-A bar code data.



UPC-A Check Character Transmission = Don't Send



★ UPC-A Check Character Transmission = Send

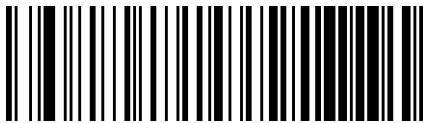


Expand UPC-A to EAN-13

Expands UPC-A data to the EAN-13 data format. Selecting this feature also changes the symbology ID to match those required for EAN-13.



★ UPC-A to EAN-13 = Don't Expand



UPC-A to EAN-13 = Expand

UPC-A Number System Character Transmission

This feature enables/disables transmission of the UPC-A number system character.



UPC-A Number System Character = Do not transmit



★ UPC-A Number System Character = Transmit



UPC-E

The following options apply to the UPC-E symbology.

UPC-E Enable/Disable

When disabled, the scanner will not read UPC-E bar codes.



UPC-E = Disable



★ UPC-E = Enable

UPC-E Check Character Transmission

Enable this option to transmit the check character along with UPC-E bar code data.



UPC-E Check Character Transmission = Don't Send



★ UPC-E Check Character Transmission = Send

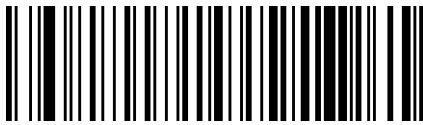


Expand UPC-E to EAN-13

Expands UPC-E data to the EAN-13 data format. Selecting this feature also changes the symbology ID to match those required for EAN-13.



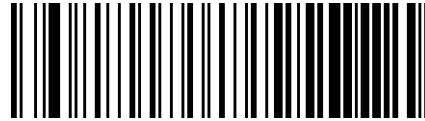
★ UPC-E to EAN-13 = Don't Expand



UPC-E to EAN-13 = Expand

Expand UPC-E to UPC-A

Expands UPC-E data to the UPC-A data format. Selecting this feature also changes the symbology ID to match those required for UPC-A.



★ UPC-E to UPC-A = Don't Expand



UPC-E to UPC-A = Expand

UPC-E Number System Character Transmission

This feature enables/disables transmission of the UPC-E number system character.



UPC-E Number System Character = Do not transmit



★ UPC-E Number System Character = Transmit



GTIN Formatting

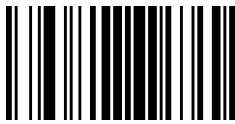
This feature enables/disables the ability to convert UPC-E, UPC-A, EAN-8, and EAN-13 labels into the GTIN 14-character format.



★ GTIN Formatting = Disable



GTIN Formatting = Enable



EAN-13

The following options apply to the EAN-13 symbology.

EAN-13 Enable/Disable

When disabled, the scanner will not read EAN-13 bar codes.



EAN-13 = Disable



★ EAN-13 = Enable

EAN-13 Check Character Transmission

Enable this option to transmit the check character along with EAN-13 bar code data.



EAN-13 Check Character Transmission = Don't Send



★ EAN-13 Check Character Transmission = Send



EAN-13 Flag 1 Character

Enables/disables transmission of an EAN/JAN-13 Flag1 character. The Flag 1 character is the first character of the label



EAN-13 Flag 1 Char = Don't transmit



★ EAN-13 Flag 1 Char = Transmit

EAN-13 to ISBN Conversion

This option enables/disables conversion of EAN-13/JAN-13 Bookland labels starting with 978 to ISBN labels.



★ EAN-13 ISBN Conversion = Disable



EAN-13 ISBN Conversion = Enable

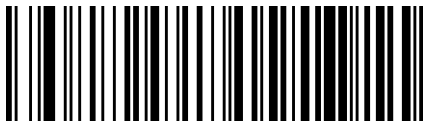


EAN-13 to ISSN Conversion

Enables/disables conversion of EAN/JAN-13 Bookland labels starting with 977 to ISSN labels.



★ ISSN = Disable



ISSN = Enable



EAN-8

The following options apply to the EAN-8 symbology.

EAN-8 Enable/Disable

When disabled, the scanner will not read EAN-8 bar codes.



EAN-8 = Disable



★ EAN-8 = Enable

EAN-8 Check Character Transmission

Enable this option to transmit the check character along with EAN-8 bar code data.



EAN-8 Check Character Transmission = Don't Send



★ EAN-8 Check Character Transmission = Send



Expand EAN-8 to EAN-13

Enable this option to expand EAN-8/JAN-8 labels to EAN-13/JAN-13.



★ EAN-8 to EAN-13 = Don't Expand



EAN-8 to EAN-13 = Expand



UPC/EAN GLOBAL SETTINGS

This section provides configuration settings for UPC-A, UPC-E, EAN 13 and EAN 8 symbologies, and affects all of these unless otherwise marked for each feature description.

UPC/EAN Price Weight Check

This feature enables/disables calculation and verification of price/weight check digits.

Options are

- Disabled
- Enable 4-digit price-weight check-digit calculation
- Enable 5-digit price-weight check-digit calculation
- Enable European 4-digit price-weight check-digit calculation
- Enable European 5-digit price-weight check-digit calculation



★ Price Weight Check = Disabled



Price Weight Check = 4-digit price-weight check



Price Weight Check = 5-digit price-weight check



Price Weight Check = European 4-digit price-weight check

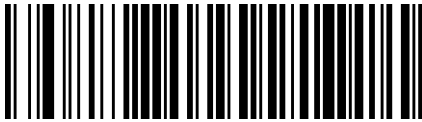


Price Weight Check = European 5-digit price-weight check



UPC/EAN Quiet Zones

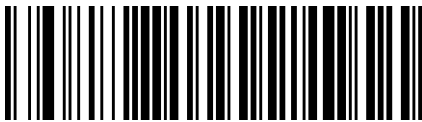
This feature specifies the number of quiet zones for UPC/EAN labels. Quiet zones are blank areas at the ends of a bar code, typically 10 times the width of the narrowest bar or space in the label. The property applies to all EAN-UPC symbologies globally and to the ADD-ONS.



UPC/EAN Quiet Zones = One Module



★ UPC/EAN Quiet Zones = Two Modules



UPC/EAN Quiet Zones = Three Modules



UPC/EAN Quiet Zones = Four Modules



UPC/EAN Quiet Zones = Five Modules



UPC/EAN Quiet Zones = Six Modules



UPC/EAN Quiet Zones = Seven Modules



UPC/EAN Quiet Zones = Eight Modules

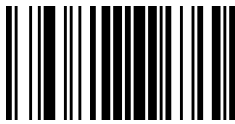


Add-Ons

The following features apply to optional add-ons.



NOTE: Contact Customer Support for advanced programming of optional and conditional add-ons.



Optional Add-ons

The scanner can be enabled to optionally read the following add-ons (supplementals):

- P2
- P5



NOTE: If a UPC/EAN base label and a an add-on are both decoded, the scanner will transmit the base label and add-on. If a UPC/EAN base label is decoded without an add-on, the base label will be transmitted without an add-on.

Conditional add-on settings (if enabled) are considered by the scanner before optional add-on settings.



★ Optional Add-Ons = Disable P2



Optional Add-Ons = Enable P2



★ Optional Add-Ons = Disable P5



Optional Add-Ons = Enable P5



Optional Add-On Timer

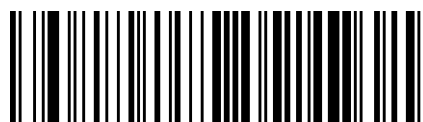
This option sets the time the scanner will look for an add-on when an add-on fragment has been seen and optional add-ons are enabled.



Optional Add-on Timer = 10ms



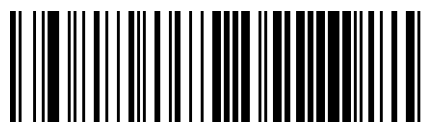
Optional Add-on Timer = 20ms



Optional Add-on Timer = 30ms



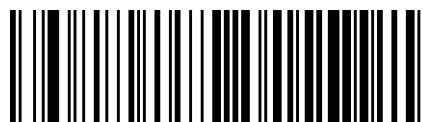
Optional Add-on Timer = 50ms



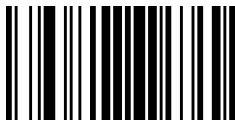
★ Optional Add-on Timer = 70ms



Optional Add-on Timer = 100ms



Optional Add-on Timer = 160ms



GS1 DATABAR™ OMNIDIRECTIONAL

The following options apply to the GS1 DataBar Omnidirectional (formerly RSS-14) symbology.

GS1 DataBar Omnidirectional Enable/Disable

When disabled, the scanner will not read GS1 DataBar Omnidirectional bar codes.



★ GS1 DataBar Omnidirectional = Disable



GS1 DataBar Omnidirectional = Enable

GS1 DataBar Omnidirectional to GS1-128 Emulation

When enabled, GS1 DataBar Omnidirectional bar codes will be translated to the GS1-128 label data format.



★ GS1 DataBar Omnidirectional to GS1-128 Emulation
= Disable



GS1 DataBar Omnidirectional to GS1-128 Emulation
= Enable



GS1 DATABAR™ EXPANDED

The following options apply to the GS1 DataBar Expanded (formerly RSS Expanded) symbology.

GS1 DataBar Expanded Enable/Disable

When disabled, the scanner will not read GS1 DataBar Expanded bar codes.



★ GS1 DataBar Expanded = Disable



GS1 DataBar Expanded = Enable

GS1 DataBar Expanded to GS1-128 Emulation

When enabled, GS1 DataBar Expanded bar codes will be translated to the GS1-128 label data format.



★ GS1 DataBar Expanded to GS1-128 Emulation
= Disable



GS1 DataBar Expanded to GS1-128 Emulation
= Enable



GS1 DataBar Expanded Length Control

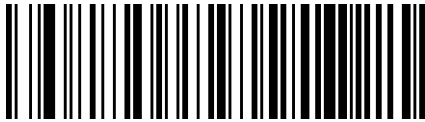
This feature specifies either variable length decoding or fixed length decoding for the GS1 DataBar Expanded symbology.

Variable Length: For variable-length decoding, a minimum length may be set.

Fixed Length: For fixed-length decoding, two different lengths may be set.



★ GS1 DataBar Expanded Length Control
= Variable Length



GS1 DataBar Expanded Length Control = Fixed Length

GS1 DataBar Expanded Set Length 1

This feature specifies one of the bar code lengths for "GS1 DataBar Expanded Length Control" on page 84. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the bar code's data characters only.

The length can be set from 1 to 74 characters. See "Set Length 1" on page 170 for more detailed programming instructions.



Select GS1 DataBar Expanded Set Length 1 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 1 = 01 (one character)



GS1 DataBar Expanded Set Length 2

This feature specifies one of the bar code lengths for "[GS1 DataBar Expanded Length Control](#)" on [page 84](#). Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the bar code's data characters only.

The length can be set from 1 to 74 characters. A setting of 00 specifies to ignore this length (only one fixed length). See "[Set Length 2](#)" on [page 171](#) for more detailed programming instructions.



Select GS1 DataBar Expanded Set Length 2 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 2 = 74 (74 characters)



GS1 DATABAR™ LIMITED

The following options apply to the GS1 DataBar Limited (formerly RSS Limited) symbol-
ogy.

GS1 DataBar Limited Enable/Disable

When disabled, the scanner will not read GS1 DataBar Limited bar codes.



★ GS1 DataBar Limited = Disable



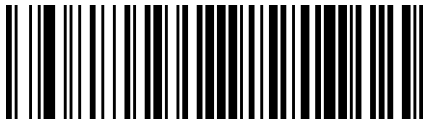
GS1 DataBar Limited = Enable

GS1 DataBar Limited to GS1-128 Emulation

When enabled, GS1 DataBar Limited bar codes will be translated to the GS1-128 label
data format.



★ GS1 DataBar Limited to GS1-128 Emulation
= Disable



GS1 DataBar Limited to GS1-128 Emulation
= Enable



CODE 39

The following options apply to the Code 39 symbology.

Code 39 Enable/Disable

When disabled, the scanner will not read Code 39 bar codes.



Code 39 = Disable



★ Code 39 = Enable

Code 39 Check Character Calculation

Enable this option to enable/disable calculation and verification of an optional Code 39 check character. When disabled, any check character in the label is treated as a data character.



★ Code 39 Check Character Calculation =
Don't Calculate



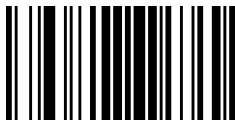
Code 39 Check Character Calculation = Calculate Std Check



Code 39 Check Character Calculation
= Calculate Mod 7 Check



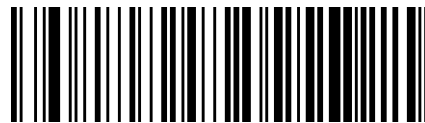
Code 39 Check Character Calculation
= Enable Italian Post Check



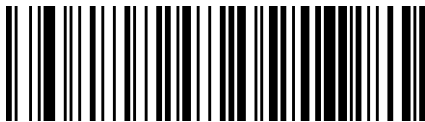
Code 39 Check Character Calculation
= Enable Daimler Chrysler Check

Code 39 Check Character Transmission

Enable this option to transmit the check character along with Code 39 bar code data.



Code 39 Check Character Transmission = Don't Send



★ Code 39 Check Character Transmission = Send

Code 39 Start/Stop Character Transmission

Enable this option to enable/disable transmission of Code 39 start and stop characters.



★ Code 39 Start/Stop Character Transmission
= Don't Transmit



Code 39 Start/Stop Character Transmission
= Transmit



Code 39 Full ASCII

In Code 39 decoding, this enables/disables the translation of Code 39 characters to Code 39 full-ASCII characters.



★ Code 39 Full ASCII = Disable



Code 39 Full ASCII = Enable

Code 39 Quiet Zones

This feature specifies the number of quiet zones for Code 39 labels. Quiet zones are blank areas at the ends of a bar code and are typically 10 times the width of the narrowest bar or space in the label.



★ Code 39 Quiet Zones = No Quiet Zones



Code 39 Quiet Zones = Quiet Zone on one side



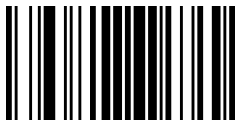
Code 39 Quiet Zones = Quiet Zones on two sides



Code 39 Quiet Zones = Auto



Code 39 Quiet Zones = Virtual Quiet Zones on two sides



Code 39 Quiet Zones =
Small Quiet Zones on two sides

Code 39 Length Control

This feature specifies either variable length decoding or fixed length decoding for the Code 39 symbology.

Variable Length: For variable-length decoding, a minimum length may be set.

Fixed Length: For fixed-length decoding, two different lengths may be set.



★ Code 39 Length Control
= Variable Length



Code 39 Length Control = Fixed Length



Code 39 Set Length 1

This feature specifies one of the bar code lengths for "[Code 39 Length Control](#)" on [page 90](#). Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the bar code's check, data, and full-ASCII shift characters. The length does not include start/stop characters.

The length can be set from 0 to 50 characters. See "[Set Length 1](#)" on [page 170](#) for more detailed programming instructions.



Select Code 39 Set Length 1 Setting

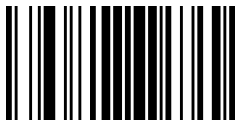
To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

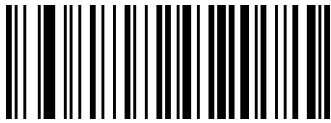
★ Length 1 = 02 (2 characters)



Code 39 Set Length 2

This feature specifies one of the bar code lengths for "[Code 39 Length Control](#)" on [page 90](#). Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the bar code's check, data, and full-ASCII shift characters. The length does not include start/stop characters.

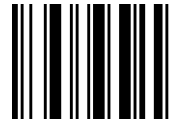
The length can be set from 1 to 50 characters. A setting of 00 specifies to ignore this length (only one fixed length). See "[Set Length 2](#)" on [page 171](#) for more detailed programming instructions.



Select Code 39 Set Length 2 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 2 = 50 (50 characters)



TRIOPTIC CODE

The following options apply to the trioptic symbology.

Trioptic Code Enable/Disable

When disabled, the scanner will not read Trioptic Code bar codes.



★ Trioptic Code = Disable



Trioptic Code = Enable

CODE 39 DANISH PPT

The following options apply to the Code 39 Danish PPT symbology.

Code 39 Danish PPT Enable/Disable

When disabled, the scanner will not read Code 39 Danish PPT bar codes.



★ Code 39 Danish PPT = Disable



Code 39 Danish PPT = Enable



CODE 39 PZN

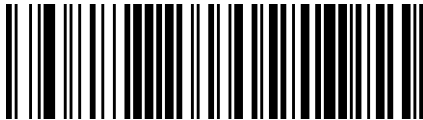
The following options apply to the Code 39 PZN symbology.

Code 39 PZN Enable/Disable

When disabled, the scanner will not read Code 39 PZN bar codes.



★ Code 39 PZN = Disable



Code 39 PZN = Enable

CODE 39 LA POSTE

The following options apply to the Code 39 La Poste symbology.

Code 39 La Poste Enable/Disable

When disabled, the scanner will not read Code 39 La Poste bar codes.



★ Code 39 La Poste = Disable



Code 39 La Poste = Enable



CODE 32 (ITALIAN PHARMACEUTICAL)

The following options apply to the Code 32 symbology.

Code 32 Enable/Disable

When disabled, the scanner will not read Code 32 bar codes.



★ Code 32 = Disable



Code 32 = Enable

Code 32 Feature Setting Exceptions



NOTE: The following features are set for Code 32 by using these Code 39 settings:

"Code 39 Quiet Zones" on page 89

"Code 39 Length Control" on page 90

Code 32 Check Character Transmission

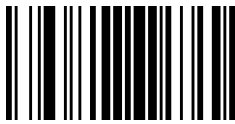
Enable this option to transmit the check character along with Code 32 bar code data.



★ Code 32 Check Character Transmission = Don't
Send



Code 32 Check Character Transmission = Send



Code 32 Start/Stop Character Transmission

Enable this option to enable/disable transmission of Code 32 start and stop characters.



★ Code 32 Start/Stop Character Transmission
= Don't Transmit



Code 32 Start/Stop Character Transmission
= Transmit

CODE 39 CIP (FRENCH PHARMACEUTICAL)

The following options apply to the Code 39 CIP symbology.

Code 39 CIP Enable/Disable

Enables/Disables ability of the scanner to decode Code 39 CIP labels.



★ Code 39 CIP = Disable



Code 39 CIP = Enable



CODE 128

The following options apply to the Code 128 symbology.

Code 128 Enable/Disable

Enables/Disables ability of the scanner to decode Code 128 labels.



Code 128 = Disable



★ Code 128 = Enable

Expand Code 128 to Code 39

This feature enables/disables expansion of Code 128 labels to Code 39 labels. When enabled, the label identifier for a Code 128 label shall be set to Code 39 and all Code 39 formatting control shall be applied to the label.



★ Code 128 to Code 39 = Don't Expand



Code 128 to Code 39 = Expand

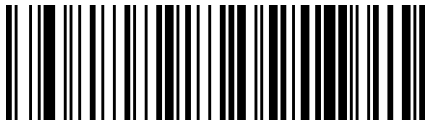


Code 128 Check Character Transmission

Enable this option to transmit the check character along with Code 128 bar code data.



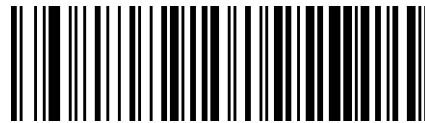
★ Code 128 Check Character Transmission =
Don't Send



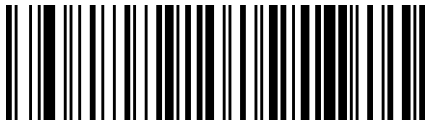
Code 128 Check Character Transmission = Send

Code 128 Function Character Transmission

Enables/disables transmission of Code128 function characters 1, 2, 3, and 4.



★ Code 128 Function Character Transmission =
Don't Send



Code 128 Function Character Transmission = Send



Code 128 Quiet Zones

This feature specifies the number of quiet zones for Code 128 labels. Quiet zones are blank areas at the ends of a bar code and are typically 10 times the width of the narrowest bar or space in the label.



Code 128 Quiet Zones = No Quiet Zones



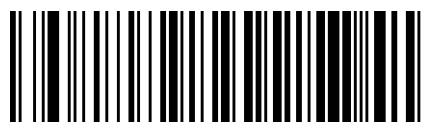
Code 128 Quiet Zones = Quiet Zone on one side



Code 128 Quiet Zones = Quiet Zones on two sides



★ Code 128 Quiet Zones = Auto



Code 128 Quiet Zones = Virtual Quiet Zones on two sides

Code 128 Length Control

This feature specifies either variable length decoding or fixed length decoding for the Code 128 symbology.

Variable Length: For variable-length decoding, a minimum length may be set.

Fixed Length: For fixed-length decoding, two different lengths may be set.



★ Code 128 Length Control = Variable Length



Code 128 Length Control = Fixed Length



Code 128 Set Length 1

This feature specifies one of the bar code lengths for "[Code 128 Length Control](#)" on [page 99](#). Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the bar code's data characters only.

The length can be set from 1 to 80 characters. See "[Set Length 1](#)" on [page 170](#) for more detailed programming instructions.



Select Code 128 Set Length 1 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 1 = 01 (one character)

Code 128 Set Length 2

This feature specifies one of the bar code lengths for "[Code 128 Length Control](#)" on [page 99](#). Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the bar code's data characters only.

The length can be set from 1 to 80 characters. A setting of 00 specifies to ignore this length (only one fixed length). See "[Set Length 2](#)" on [page 171](#) for more detailed programming instructions.



Select Code 128 Set Length 2 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 2 = 80 (80 characters)



GS1-128

The following options apply to the GS1-128 symbology. (Also known as USS-128, GTIN-128, UCC-128.)

GS1-128 Enable

This option enables/disables the ability of the scanner to translate GS1-128 labels to the GS1-128 data format. Options are:

- Transmit GS1-128 labels in Code 128 data format.
- Transmit GS1-128 labels in GS1-128 data format.
- Do not transmit GS1-128 labels.



GS1-128 = Transmit in Code 128 data format



★ GS1-128 = Transmit in GS1-128 data format



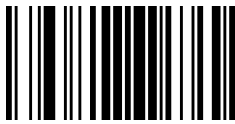
GS1-128 = Do not transmit GS1-128 labels

INTERLEAVED 2 OF 5 (I 2 OF 5)

The following options apply to the I 2 of 5 symbology.



CAUTION: When reading this symbology, the settings for I 2 of 5 Length Control AND I 2 of 5 Check Character Calculation MUST be enabled to increase decoding safety.



I 2 of 5 Enable/Disable

When disabled, the scanner will not read I 2 of 5 bar codes.



★ I 2 of 5 = Disable



I 2 of 5 = Enable

I 2 of 5 Check Character Calculation

This option enables/disables calculation and verification of an optional I 2 of 5 check character.



★ I 2 of 5 Check Character Calculation = Disable



I 2 of 5 Check Character Calculation
= Calculate Std Check (Modulo 10 no AR)



I 2 of 5 Check Character Calculation
= Calculate German Parcel Check



I 2 of 5 Check Character Calculation
= Calculate DHL Check



I 2 of 5 Check Character Calculation
= Calculate Daimler Chrysler Check



I 2 of 5 Check Character Calculation (continued)



I 2 of 5 Check Character Calculation
= Calculate Bosch Check



I 2 of 5 Check Character Calculation
= Calculate Italian Post Check

I 2 of 5 Check Character Transmission

Enable this option to transmit the check character along with I 2 of 5 bar code data.



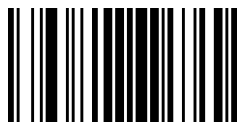
NOTE: This feature is valid only when I 2 of 5 Check Character Calculation is enabled.



I 2 of 5 Check Character Transmission = Don't Send



★ I 2 of 5 Check Character Transmission = Send



I 2 of 5 Length Control

This feature specifies either variable length decoding or fixed length decoding for the I 2 of 5 symbology.

Variable Length: For variable-length decoding, a minimum length may be set.

Fixed Length: For fixed-length decoding, two different lengths may be set.



★ I 2 of 5 Length Control = Variable Length



I 2 of 5 Length Control = Fixed Length

I 2 of 5 Set Length 1

This feature specifies one of the bar code lengths for "I 2 of 5 Length Control" on page 104. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. The length includes the bar code's check and data characters. The length can be set from 2 to 62 characters in increments of two. See "Set Length 1" on page 170 for more detailed programming instructions.



Select I 2 of 5 Set Length 1 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 1 = 06 (6 characters)



I 2 of 5 Set Length 2

This feature specifies one of the bar code lengths for "I 2 of 5 Length Control" on page 104. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. The length includes the bar code's check and data characters. The length can be set from 2 to 62 characters in increments of two. A setting of 00 specifies to ignore this length (only one fixed length). See "Set Length 2" on page 171 for more detailed programming instructions.



Select I 2 of 5 Set Length 2 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 2 = 62 (62 characters)

INTERLEAVED 2 OF 5 CIP HR

The following options apply to the Interleaved 2 of 5 CIP HR symbology.

Interleaved 2 of 5 CIP HR Enable/Disable

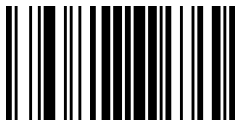
Enables/Disables ability of the scanner to decode Interleaved 2 of 5 CIP HR labels.



★ Interleaved 2 of 5 CIP HR = Disable



Interleaved 2 of 5 CIP HR = Enable



STANDARD 2 OF 5

The following options apply to the Standard 2 of 5 symbology.

Standard 2 of 5 Enable/Disable

When disabled, the scanner will not read Standard 2 of 5 bar codes.



★ Standard 2 of 5 = Disable



Standard 2 of 5 = Enable

Standard 2 of 5 Check Character Calculation

This option enables/disables calculation and verification of an optional Standard 2 of 5 check character.



★ Standard 2 of 5 Check Character Calculation
= Disable



Standard 2 of 5 Check Character Calculation = Enable



Standard 2 of 5 Check Character Transmission

This feature enables/disables transmission of an optional Standard 2 of 5 check character.



Standard 2 of 5 Check Character Transmission
= Don't Send



★ Standard 2 of 5 Check Character Transmission
= Send

Standard 2 of 5 Length Control

This feature specifies either variable length decoding or fixed length decoding for the Standard 2 of 5 symbology.

Variable Length: For variable-length decoding, a minimum length may be set.

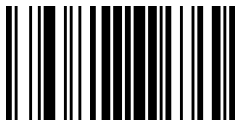
Fixed Length: For fixed-length decoding, two different lengths may be set.



★ Standard 2 of 5 Length Control = Variable Length



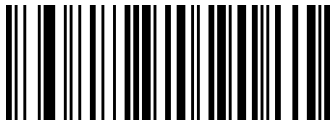
Standard 2 of 5 Length Control = Fixed Length



Standard 2 of 5 Set Length 1

This feature specifies one of the bar code lengths for "[Standard 2 of 5 Length Control](#)" on [page 107](#). Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. The length includes the bar code's check and data characters.

The length can be set from 1 to 50 characters. See "[Set Length 1](#)" on [page 170](#) for more detailed programming instructions.



Select Standard 2 of 5 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 1 = 08 (8 characters)

Standard 2 of 5 Set Length 2

This feature specifies one of the bar code lengths for "[Standard 2 of 5 Length Control](#)" on [page 107](#). Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. The length includes the bar code's check and data characters.

The length can be set from 1 to 50 characters. A setting of 00 specifies to ignore this length (only one fixed length). See "[Set Length 2](#)" on [page 171](#) for more detailed programming instructions.



Select Standard 2 of 5 Set Length 2 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 2 = 50 (50 characters)



COMPRESSED 2 OF 5

The following options apply to the Compressed 2 of 5 symbology.

Compressed 2 of 5 Enable/Disable

When disabled, the scanner will not read Compressed 2 of 5 bar codes.



★ Compressed 2 of 5 = Disable



Compressed 2 of 5 = Enable

Compressed 2 of 5 Check Character Calculation

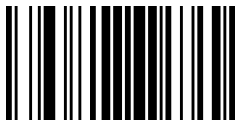
This option enables/disables calculation and verification of an optional Compressed 2 of 5 check character.



★ Compressed 2 of 5 Check Character Calculation
= Disable

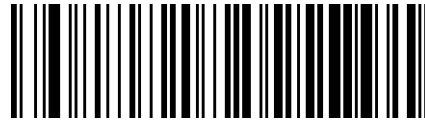


Compressed 2 of 5 Check Character Calculation = Enable

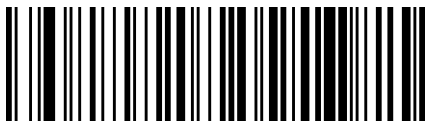


Compressed 2 of 5 Check Character Transmission

This feature enables/disables transmission of an optional Compressed 2 of 5 check character.



Compressed 2 of 5 Check Character Transmission
= Don't Send



★ Compressed 2 of 5 Check Character Transmission
= Send

Compressed 2 of 5 Length Control

This feature specifies either variable length decoding or fixed length decoding for the Compressed 2 of 5 symbology.

Variable Length: For variable-length decoding, a minimum length may be set.

Fixed Length: For fixed-length decoding, two different lengths may be set.



★ Compressed 2 of 5 Length Control = Variable
Length



Compressed 2 of 5 Length Control = Fixed Length



Compressed 2 of 5 Set Length 1

This feature specifies one of the bar code lengths for "[Compressed 2 of 5 Length Control](#)" on page 110. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. The length includes the bar code's check and data characters.

The length can be set from 1 to 50 characters. See "[Set Length 1](#)" on page 170 for more detailed programming instructions.



Select Compressed 2 of 5 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 1 = 01 (one character)

Compressed 2 of 5 Set Length 2

This feature specifies one of the bar code lengths for "[Compressed 2 of 5 Length Control](#)" on page 110. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. The length includes the bar code's check and data characters.

The length can be set from 1 to 50 characters. A setting of 00 specifies to ignore this length (only one fixed length). See "[Set Length 2](#)" on page 171 for more detailed programming instructions.



Select Compressed 2 of 5 Set Length 2 Setting

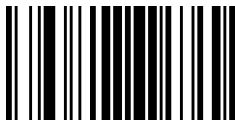
To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 2 = 50 (50 characters)



DATALOGIC 2 OF 5

The following options apply to the Datalogic 2 of 5 symbology.

Datalogic 2 of 5 Enable/Disable

When disabled, the scanner will not read Datalogic 2 of 5 bar codes.



★ Datalogic 2 of 5 = Disable



Datalogic 2 of 5 = Enable

Datalogic 2 of 5 Check Character Calculation

This option enables/disables calculation and verification of an optional Datalogic 2 of 5 check character.



★ Datalogic 2 of 5 Check Character Calculation
= Disable

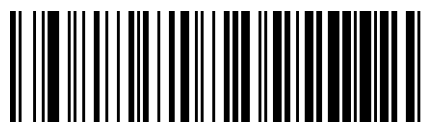


Datalogic 2 of 5 Check Character Calculation = Enable



Datalogic 2 of 5 Check Character Transmission

Enable this option to transmit the check character along with Datalogic 2 of 5 bar code data.



Datalogic 2 of 5 Check Character Transmission
= Don't Send



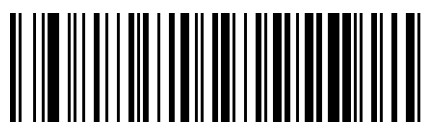
★ Datalogic 2 of 5 Check Character Transmission
= Send

Datalogic 2 of 5 Length Control

This feature specifies either variable length decoding or fixed length decoding for the Datalogic 2 of 5 symbology.

Variable Length: For variable-length decoding, a minimum length may be set.

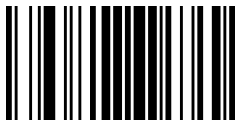
Fixed Length: For fixed-length decoding, two different lengths may be set.



★ Datalogic 2 of 5 Length Control = Variable Length



Datalogic 2 of 5 Length Control = Fixed Length



Datalogic 2 of 5 Set Length 1

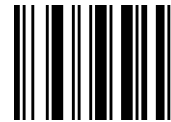
This feature specifies one of the bar code lengths for "Datalogic 2 of 5 Length Control" on [page 113](#). Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. The length includes the bar code's check and data characters. The length can be set from 2 to 50 characters in increments of two. See "[Set Length 1](#)" on [page 170](#) for more detailed programming instructions.



Select Datalogic 2 of 5 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 1 = 06 (6 characters)

Datalogic 2 of 5 Set Length 2

This feature specifies one of the bar code lengths for "Datalogic 2 of 5 Length Control" on [page 113](#). Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. The length includes the bar code's check and data characters. The length can be set from 2 to 50 characters. A setting of 00 specifies to ignore this length (only one fixed length). See "[Set Length 2](#)" on [page 171](#) for more detailed programming instructions.



Select Datalogic 2 of 5 Set Length 2 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 2 = 50 (50 characters)



INDUSTRIAL 2 OF 5

The following options apply to the Industrial 2 of 5 symbology.

Industrial 2 of 5 Enable/Disable

When disabled, the scanner will not read Industrial 2 of 5 bar codes.



★ Industrial 2 of 5 = Disable



Industrial 2 of 5 = Enable

Industrial 2 of 5 Check Character Calculation

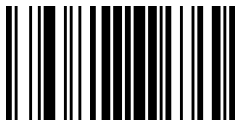
Enables/Disables calculation and verification of an optional Industrial 2 of 5 check character.



★ Industrial 2 of 5 Check Character Calculation
= Disable

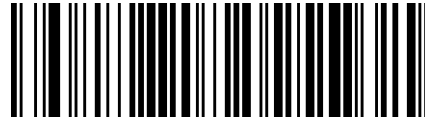


Industrial 2 of 5 Check Character Calculation = Enable

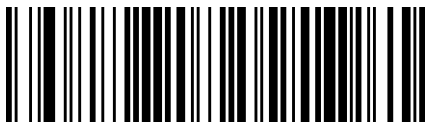


Industrial 2 of 5 Check Character Transmission

Enables/disables transmission of an Industrial 2 of 5 check character.



Industrial 2 of 5 Check Character Transmission
= Don't Send



★ Industrial 2 of 5 Check Character Transmission
= Send

Industrial 2 of 5 Length Control

This feature specifies either variable length decoding or fixed length decoding for the Industrial 2 of 5 symbology.

Variable Length: For variable-length decoding, a minimum length may be set.

Fixed Length: For fixed-length decoding, two different lengths may be set.



★ Industrial 2 of 5 Length Control = Variable Length



Industrial 2 of 5 Length Control = Fixed Length



Industrial 2 of 5 Set Length 1

This feature specifies one of the bar code lengths for "[Industrial 2 of 5 Length Control](#)" on [page 116](#). Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. The length includes the bar code's check and data characters.

The length can be set from 1 to 50 characters. See "[Set Length 1](#)" on [page 170](#) for more detailed programming instructions.



Select Industrial 2 of 5 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 1 = 06 (6 characters)

Industrial 2 of 5 Set Length 2

This feature specifies one of the bar code lengths for "[Industrial 2 of 5 Length Control](#)" on [page 116](#). Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. The length includes the bar code's check and data characters.

The length can be set from 1 to 50 characters. A setting of 00 specifies to ignore this length (only one fixed length). See "[Set Length 2](#)" on [page 171](#) for more detailed programming instructions.



Select Industrial 2 of 5 Set Length 2 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 2 = 50 (50 characters)

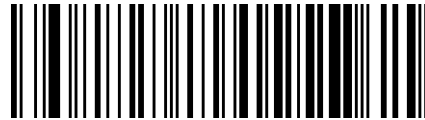


IATA

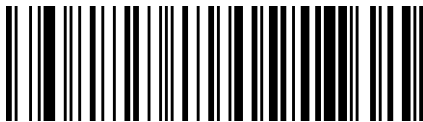
The following options apply to the IATA symbology.

IATA Enable/Disable

Enables/Disables the ability of the scanner to decode IATA labels.



★ IATA = Disable



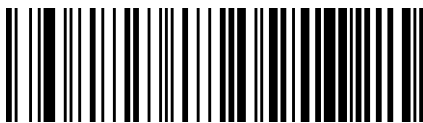
IATA = Enable

IATA Check Character Transmission

Enables/Disables calculation and verification of an optional IATA check character.



IATA Check Character Transmission
= Don't Send



★ IATA Check Character Transmission
= Send



FOLLETT 2 OF 5

The following options apply to the Follett 2 of 5 symbology.

Follett 2 of 5 Enable/Disable

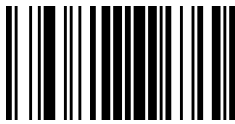
Enables/Disables ability of scanner to decode Follett 2 of 5 labels.



★ Follett 2 of 5 = Disable



Follett 2 of 5 = Enable



CODABAR

The following options apply to the Codabar symbology.

Codabar Enable/Disable

When disabled, the scanner will not read Codabar bar codes.



★ Codabar = Disable



Codabar = Enable

Codabar Check Character Calculation

This option enables/disables calculation and verification of an optional Codabar check character. When disabled, any check characters in the label are treated as data characters.



★ Codabar Check Character Calculation = Disable



Codabar Check Character Calculation
= Calculate AIM Std Check



Codabar Check Character Calculation
= Calculate Modulo 10 Check



Codabar Check Character Calculation
= Calculate NW-7 Check



Codabar Check Character Transmission

Enable this option to transmit the check character along with Codabar bar code data.



NOTE: This feature is valid only when Codabar Check Character Calculation is enabled.



Codabar Check Character Transmission
= Don't Send



★ Codabar Check Character Transmission
= Send

Codabar Start/Stop Character Transmission

This option enables/disables transmission of Codabar start and stop characters.



Codabar Start/Stop Character Transmission
= Don't Transmit



★ Codabar Start/Stop Character Transmission
= Transmit

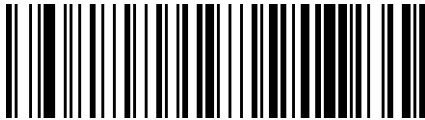


Codabar Start/Stop Character Set

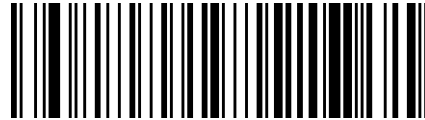
This option specifies the format of transmitted Codabar start/stop characters.



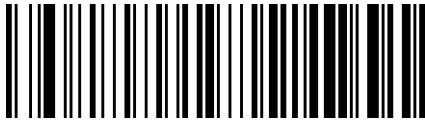
Codabar Check Character Set = ABCD/TN*E



Codabar Check Character Set = ABCD/ABCD



Codabar Check Character Set = abcd/tn*e



★ Codabar Check Character Set = abcd/abcd

Codabar Start/Stop Character Match

When enabled, this option requires that start and stop characters match



★ Codabar Start/Stop Character Match
= Don't Require Match



Codabar Start/Stop Character Match = Require Match



Codabar Quiet Zones

This feature specifies the number of quiet zones for Codabar labels. Quiet zones are blank areas at the ends of a bar code and are typically 10 times the width of the narrowest bar or space in the label.



Codabar Quiet Zones = Quiet Zone on one side



★ Codabar Quiet Zones = Quiet Zones on two sides



Codabar Quiet Zones = Auto



Codabar Quiet Zones = Virtual Quiet Zones on two sides



Codabar Quiet Zones = Small Quiet Zones on two sides



Codabar Length Control

This feature specifies either variable length decoding or fixed length decoding for the Codabar symbology.

Variable Length: For variable-length decoding, a minimum length may be set.

Fixed Length: For fixed-length decoding, two different lengths may be set.



★ Codabar Length Control = Variable Length



Codabar Length Control = Fixed Length

Codabar Set Length 1

This feature specifies one of the bar code lengths for "[Codabar Length Control](#)" on [page 124](#). Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the bar code's start, stop, check and data characters. The length must include at least one data character.

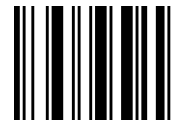
The length can be set from 3 to 50 characters. See "[Set Length 1](#)" on [page 170](#) for more detailed programming instructions.



Select Codabar Length 1 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 1 = 03 (3 characters)



Codabar Set Length 2

This feature specifies one of the bar code lengths for "Codabar Length Control" on page 124. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. The length includes the bar code's start, stop, check and data characters. The length must include at least one data character.

The length can be set from 3 to 50 characters. A setting of 00 specifies to ignore this length (only one fixed length). See "Set Length 2" on page 171 for more detailed programming instructions.



Select Codabar Length 2 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 2 = 50 (50 characters)

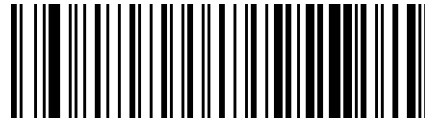


ABC CODABAR

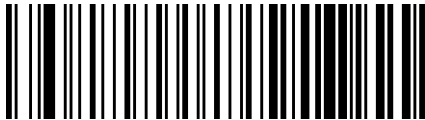
The following options apply to the ABC Codabar symbology.

ABC Codabar Enable/Disable

Enables/Disables ability of scanner to decode ABC Codabar labels.



★ ABC Codabar = Disable



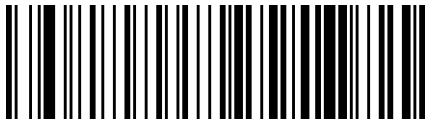
ABC Codabar = Enable

ABC Codabar Concatenation Mode

Specifies the concatenation mode between Static and Dynamic.



★ ABC Codabar Contatenation Mode = Static

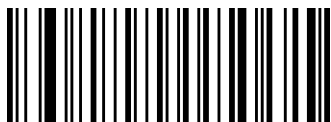


ABC Codabar Concatenation Mode = Dynamic



ABC Codabar Dynamic Concatenation Timeout

This parameter specifies the timeout in 10-millisecond ticks used by the ABC Codabar Dynamic Concatenation Mode. The timeout can be set within a range of 05 to 255 in 10ms increments. A setting of zero specifies no delay.



Select ABC Codabar Dynamic Concatenation
Timeout Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphabetic characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Timeout = 20 (200 ms)

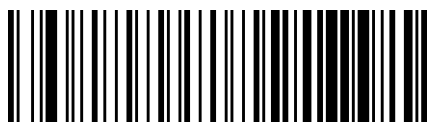
ABC Codabar Force Concatenation

When ABC Codabar Concatenation is enabled and Force Concatenation is disabled, both Codabar stand alone labels and ABC Codabar concatenated labels are transmitted. When ABC Codabar Concatenation is enabled and Force Concatenation is enabled only ABC Codabar concatenated labels are transmitted while Codabar stand alone labels are not transmitted.

Force Concatenation has no effect if the ABC Codabar Concatenation is disabled. The Force Concatenation mode has effect both in Static and Dynamic Concatenation Modes.



★ ABC Codabar Force Concatenation = Disable



ABC Codabar Force Concatenation = Enable

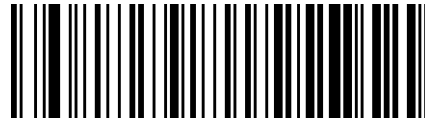


ISBT 128

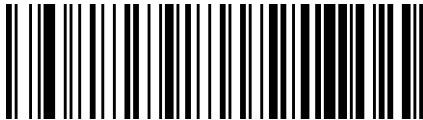
The following options apply to the ISBT 128 symbology.

ISBT 128 Concatenation

Enables/disables ISBT 128 concatenation of 2 labels.



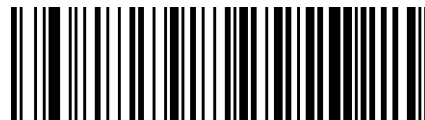
★ ISBT 128 Concatenation = Disable



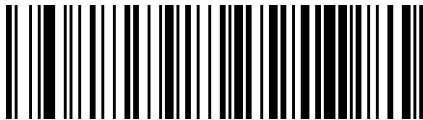
ISBT 128 Concatenation = Enable

ISBT 128 Concatenation Mode

Specifies the concatenation mode between Static and Dynamic.



★ ISBT 128 Concatenation Mode = Static



ISBT 128 Concatenation Mode = Dynamic



ISBT 128 Dynamic Concatenation Timeout

Specifies the timeout used by the ISBT 128 Dynamic Concatenation Mode.



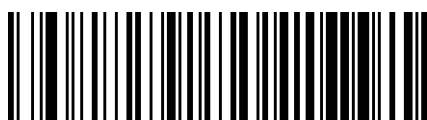
ISBT 128 Dynamic Concatenation Timeout = 50 msec



ISBT 128 Dynamic Concatenation Timeout = 100 msec



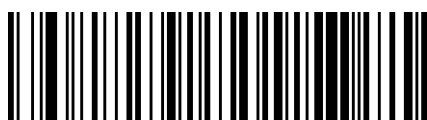
★ ISBT 128 Dynamic Concatenation Timeout = 200 msec



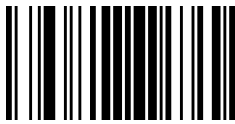
ISBT 128 Dynamic Concatenation Timeout = 500 msec



ISBT 128 Dynamic Concatenation Timeout = 750 msec



ISBT 128 Dynamic Concatenation Timeout = 1 second

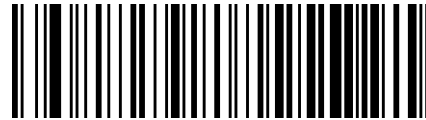


ISBT 128 Force Concatenation

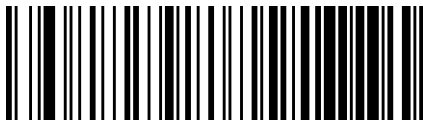
When enabled, this feature forces all ISBT 128 labels to be concatenated.



NOTE: This option is only valid when "ISBT 128 Concatenation" on page 128 is enabled.



★ ISBT 128 Force Concatenation = Disable



ISBT 128 Force Concatenation = Enable

ISBT 128 Advanced Concatenation Options



NOTE: Use the Datalogic Aladdin configuration application or Contact Customer Support to set up pairs of label types for concatenation.



CODE 11

The following options apply to the Code 11 symbology.

Code 11 Enable/Disable

When disabled, the scanner will not read Code 11 bar codes.



★ Code 11 = Disable



Code 11 = Enable

Code 11 Check Character Calculation

This option enables/disables calculation and verification of optional Code 11 check character.



Code 11 Check Character Calculation = Disable



Code 11 Check Character Calculation = Calculate Check C



Code 11 Check Character Calculation
= Calculate Check K



★ Code 11 Check Character Calculation
= Calculate Check C and K



Code 11 Check Character Transmission

This feature enables/disables transmission of an optional Code 11 check character.



Code 11 Check Character Transmission = Don't Send



★ Code 11 Check Character Transmission = Send

Code 11 Length Control

This feature specifies either variable length decoding or fixed length decoding for the Code 11 symbology.

Variable Length: For variable-length decoding, a minimum length may be set.

Fixed Length: For fixed-length decoding, two different lengths may be set.



★ Code 11 Length Control = Variable Length



Code 11 Length Control = Fixed Length



Code 11 Set Length 1

This feature specifies one of the bar code lengths for "Code 11 Length Control" on page 132. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the bar code's check and data characters.

The length can be set from 2 to 50 characters. See "Set Length 1" on page 170 for more detailed programming instructions.



Select Code 11 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 1 = 04 (4 characters)

Code 11 Set Length 2

This feature specifies one of the bar code lengths for "Code 11 Length Control" on page 132. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the bar code's check and data characters.

The length can be set from 2 to 50 characters. A setting of 00 specifies to ignore this length (only one fixed length). See "Set Length 2" on page 171 for more detailed programming instructions.



Select Code 11 Length 2 Setting

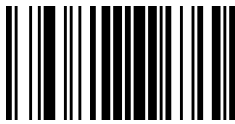
To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 2 = 50 (50 characters)



CODE 93

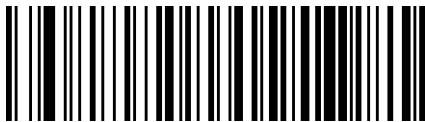
The following options apply to the Code 93 symbology.

Code 93 Enable/Disable

Enables/Disables ability of scanner to decode Code 93 labels.



★ Code 93 = Disable



Code 93 = Enable

Code 93 Check Character Calculation

This option enables/disables calculation and verification of optional Code 93 check character.



Code 93 Check Character Calculation = Disable



Code 93 Check Character Calculation = Calculate Check C



Code 93 Check Character Calculation
= Calculate Check K



★ Code 93 Check Character Calculation
= Calculate Check C and K

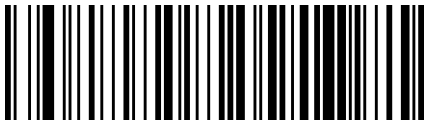


Code 93 Check Character Transmission

This feature enables/disables transmission of an optional Code 93 check character.



★ Code 93 Check Character Transmission = Don't
Send



Code 93 Check Character Transmission = Send

Code 93 Length Control

This feature specifies either variable length decoding or fixed length decoding for the Code 93 symbology.

Variable Length: For variable-length decoding, a minimum length may be set.

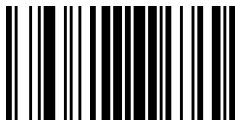
Fixed Length: For fixed-length decoding, two different lengths may be set.



★ Code 93 Length Control = Variable Length



Code 93 Length Control = Fixed Length



Code 93 Set Length 1

This feature specifies one of the bar code lengths for "[Code 93 Length Control](#)" on [page 135](#). Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the bar code's check and data characters.

The length can be set from 1 to 50 characters. See "[Set Length 1](#)" on [page 170](#) for more detailed programming instructions.



Select Code 93 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 1 = 01 (one character)

Code 93 Set Length 2

This feature specifies one of the bar code lengths for "[Code 93 Length Control](#)" on [page 135](#). Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. The length includes the bar code's check and data characters.

The length can be set from 1 to 50 characters. A setting of 00 specifies to ignore this length (only one fixed length). See "[Set Length 2](#)" on [page 171](#) for more detailed programming instructions.



Select Code 93 Length 2 Setting

To configure this feature, scan the ENTER/EXIT PROGRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in [Appendix D, Keypad](#) representing your desired character(s). End by scanning the ENTER/EXIT bar code again.

Make a mistake? Scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.



CANCEL

★ Length 2 = 50 (50 characters)



Code 93 Quiet Zones

This feature specifies the number of quiet zones for Code 93 labels. Quiet zones are blank areas at the ends of a bar code and are typically 10 times the width of the narrowest bar or space in the label.



Code 93 Quiet Zones = No Quiet Zones



Code 93 Quiet Zones = Quiet Zone on one side



Code 93 Quiet Zones = Quiet Zones on two sides



★ Code 93 Quiet Zones = Auto



Code 93 Quiet Zones = Virtual Quiet Zones on two sides