CODiScan[™] HS7600

PRODUCT REFERENCE GUIDE



Wearable Bluetooth[®] Bar Code Reader



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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 Regulatory Addendum (RA) 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 USB cable and can also create configuration bar codes to print.

OVERVIEW

Chapter 1, Introduction provides a product overview, battery safety information, and general information about programming the reader.

Chapter 2, Setup presents information about unpacking and setting up the reader, and interface configuration bar codes and details.

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

Chapter 4, 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 reader's LED and Beeper indicators.

Appendix B, Standard Defaults references common factory default settings for reader 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 interface.

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 Q, 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 **one year** from the date of shipment by Datalogic, unless otherwise agreed in an applicable writing by Datalogic.

Datalogic will not be liable under the warranty if the Product has been exposed or subjected to any: (1) maintenance, repair, installation, handling, packaging, transportation, storage, operation or use that is improper or otherwise not in compliance with Datalogic's instruction; (2) Product alteration, modification or repair by anyone other than Datalogic or those specifically authorized by Datalogic; (3) accident, contamination, foreign object damage, abuse, neglect or negligence after shipment to Buyer; (4) damage caused by failure of a Datalogicsupplied product not under warranty or by any hardware or software not supplied by Datalogic; (5) any device on which the warranty void seal has been altered, tampered with, or is missing; (6) any defect or damage caused by natural or man-made disaster such as but not limited to fire, water damage, floods, other natural disasters, vandalism or abusive events that would cause internal and external component damage or destruction of the whole unit, consumable items; (7) use of counterfeit or replacement parts that are neither manufactured nor approved by Datalogic for use in Datalogic-manufactured Products; (8) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.; (9) loss of data; (10) any consumable or equivalent (e.g. cables, power supply, batteries, etc.); or (11) any device on which the serial number is missing or not recognizable.

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CHAPTER 1 INTRODUCTION

ABOUT THE READER

CODiScan[™] is the new Bluetooth wearable scanner series developed by Datalogic to address Logistics and Manufacturing applications as well as Retail and Healthcare warehousing operations, all while providing the following benefits:

- Improve businesses daily operations accuracy and productivity with a small, lightweight super-reliable device
- Increase the throughput and overall efficiency with best-in-class scanning performances reducing TCO with 1D/2D decoding, Datalogic reading library, Green Spot
- 2 working shifts and up to 12,000 scans with a single charge
- Extreme flexibility and modularity providing a scalable optimized asset management solution with multiple mounting options for optimal comfort
- Easy configuration and pairing thanks to the Aladdin Desk, Web, and Mobile app
- Forefront 5.2 reliable radio Bluetooth communication with bidirectional communication
- Multiple mounting options and the ability to monitor battery status and scanner connectivity with a multi-functional key on the device Product Description www.datalogic.com

CODiScan is available with two optics to fulfill different needs: Standard Range - ideal for scanning activities at intuitive distances and Mid-Range - adds the capability to decode with an increased depth of field up to 1.5 m / 4.9 ft.

GENERAL FEATURES

The CODiScan[™] HS7600 normally functions by capturing and decoding codes. HS7600 is a powerful omni-directional reader, so the orientation of the symbol is not important. Datalogic's unique 'Green Spot' for good-read feedback helps to improve productivity in noisy environments or in situations where silence is required.

The CODiScan[™] HS7600 readers reliably decode all standard 1D (linear) and 2D bar codes, including GS1 DataBar[™] linear codes, Postal Codes (China Post), Stacked Codes (such as GS1 DataBar Expanded Stacked, GS1 DataBar Stacked, GS1 DataBar, Stacked Omnidirectional). The data stream - acquired from decoding a symbol - is rapidly sent to the host. The reader is immediately available to read another symbol.

BATTERY SAFETY

To reinstall, replace and/or perform any other action on the battery, contact authorized repair centers.



NOTE: Datalogic recommends the Ease Of Care Service Programs, which provide superior life-cycle support to ensure that products are always operating at peak performance when you need them the most.



WARNING: Do not discharge the battery using any device except for the reader. When the battery is used in devices other than the designated product, it may damage the battery or reduce its life expectancy. If the device causes an abnormal current to flow, it may cause the battery to become hot, explode or ignite and cause serious injury.

Lithium-ion battery packs may get hot, explode or ignite and cause serious injury if exposed to abusive conditions. Be sure to follow the safety warnings listed below:

- Do not place the battery pack in fire or heat.
- Do not connect the positive terminal and negative terminal of the battery pack to each other with any metal object (such as wire).
- Do not carry or store the battery pack together with metal objects.
- Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts or shocks.
- Do not solder directly onto the battery pack.
- Do not expose the battery pack to liquids, or allow the battery to get wet.
- Do not apply voltages to the battery pack contacts.

In the event the battery pack leaks and the fluid gets into your eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.



CAUTION: Always charge the battery at 32° - 104°F (0° - 40°C) temperature range.

Use only the authorized power supplies, battery pack, chargers, and docks supplied by your Datalogic reseller. The use of any other power supplies can damage the device and void your warranty.

Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.

Do not place the battery in or near fire, on stoves or other high temperature locations.

Do not place the battery in direct sunlight, or use or store the battery inside cars in hot weather. Doing so may cause the battery to generate heat, explode or ignite. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.

Do not place the battery in microwave ovens, high-pressure containers or on induction cookware.

Immediately discontinue use of the battery if, while using, charging or storing the battery, the battery emits an unusual smell, feels hot, changes color or shape, or appears abnormal in any other way.

Do not replace the battery pack when the device is turned on.

Do not remove or damage the battery pack's label.

Do not use the battery pack if it is damaged in any part.

Battery pack usage by children should be supervised.



CAUTION: Storage of batteries for long time at fully charged status or at fully discharged status should be avoided.



CAUTION: Only in case of long storage, to avoid deep discharge of the battery it is recommended to partially recharge the battery every three months to keep the charge status at a medium level.

As a reference, run a fast recharge for 20 minutes every three months on unused products to avoid any performance deterioration of the cell.

As with other types of batteries, Lithium-Ion (LI) batteries will lose capacity over time. Capacity deterioration is noticeable after one year of service whether the battery is in use or not.

The typical manufacturer advertised useful life of LI batteries is one to three years, depending on usage and number of charges, etc., after which they should be removed from service, especially in mission critical applications. Do not continue to use a battery that is showing excessive loss of capacity, it should be properly recycled / disposed of and replaced. Collect and recycle waste batteries separately from the device in compliance with European Directive 2006/66/EC, 2011/65/EU, 2002/96/EC and 2012/19/EU and subsequent modifications, US and China regulatory and others laws and regulations about the environment.

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 25.

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 userfriendly 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.

Aladdin[™] App

Aladdin[™]APP is an Android platform utility program providing a quick and user-friendly configuration method via Bluetooth. Aladdin APP allows you to program the reader by selecting configuration commands through a user-friendly graphical interface running on Android host. Aladdin APP also facilitates image capturing, keyboard emulation.

In addition, Aladdin APP makes it easy to upgrade the handheld's firmware, to attain the benefits of new reader features.

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

https://datalogic.github.io/aladdin/overview

CHAPTER 2 SETUP

UNPACKING

Check carefully to ensure the reader and any cables or accessories ordered are present and undamaged. If any damage occurred during shipment, contact "Technical Support" on page xiv.

SETTING UP THE CODISCAN™ HS7600 READER

Follow the steps below to connect and get your reader up and communicating with its host.

- 1. Charge the device on a charging station (optional).
- 2. Mount the device onto the preferred mounting support (optional). See "Mounting the Reader" on page 8.
- 3. Connect to host with pairing barcode. See Linking the Reader on page 14. If it has not been previously linked to a host, the device will be in discoverable HOGP mode when it is powered on. The rear blue LED will flash for 3 minutes.
- 4. Configure (optional).

USING THE CODISCAN™ HS7600

The CODiScan[™] HS7600 normally functions by capturing and decoding codes.

Turn the scanner by pressing the multi-functional button or the trigger. When the scanner starts up, it vibrates.

The reader is equipped with an aiming system. A partial press on the hand trigger will activate the aiming system without the illuminator. The intelligent aiming system indicates the field of view which should be positioned over the bar code.



CODiScan HS7600 Aiming System

The field of view indicated by the aiming system will be smaller when the reader is closer to the bar code and larger when it is farther from the code. Symbologies with smaller bars or elements (mil size) should be read closer to the unit. Symbologies with larger bars or elements (mil size) should be read farther from the unit.

Successful reading is signaled by an audible tone plus a good-read green spot LED indicator and vibration.

If enabled, when you use the device with the hand trigger, a partial trigger press produces the image shown above, which should be aimed over the code center to get the best reading performance. By completely pressing the trigger the illumination area appears and the code scanning starts.



NOTE: The Aiming System is activated by partially pressing the hand trigger. It is not activated by pressing the multifunction button on the device.

Refer to "Aiming Pointer" on page 92 to enable or disable the Aiming pointer.

CHARGING THE BATTERIES

Charge the CODiScan HS7600 by simply inserting it into one of the available chargers:

- SC-HS7600: USB Cap Charger 1 slot
- MC-HS7600: Charging station 2-slot module
- MC-12HS7600: Charging station 12-slot module

When the scanner is fully seated in the charging station, it will emit a "chirping" sound to indicate that it has detected the connection with the charging station.

The LEDs on the device will indicate the status of the battery. For information about the LEDs see Table 1 on page 18.

For more information on the chargers and their use, please refer to the Charger Instruction Manual.





NOTE: Before using the battery, read "Battery Safety" on page 2.



CAUTION: Insert the Hand Scanner only in a dry Charging Station and touch it only with dry hands to avoid malfunction.

MOUNTING THE READER

CODiScan HS7600 can be used in standalone mode or in conjunction with the following accessories to extend user comfort:

- HT1-HS7600KR: Adjustable Right Hand Trigger
- HT1-HS7600KL: Adjustable Left Hand Trigger
- LH-HS7600: Extensible Lanyard for Neck and Belt

Figure 1 - Right Hand Trigger





NOTE: The adjustable hand trigger has a different part number for right-and left-handed users. Choose the part number that best suits your needs.

Figure 2 - Extensible Lanyard



The following spare parts are available for purchase:

- HT5-HS7600KR: Adjustable Right Hand Trigger 5 Pcs
- HT5-HS7600KL: Adjustable Left Hand Trigger 5 Pcs
- SG5-HS7600KR: Spare Right Fabric 5 Pcs
- SG5-HS7600KL: Spare Left Fabric 5 Pcs
- ST1-HS7600K: Spare Trigger System (No Fabric) 1 Pc
- ST5-HS7600K: Spare Trigger System (No Fabric) 5 Pcs
- SS5-HS7600K: Spare Fabric Adjustable Strap Only 5pcs



Wearing the Hand Trigger

Before wearing the hand trigger, make sure to choose the right part number whether you are right- or left-handed.

To wear the hand trigger:

- 1. Put on the hand trigger on top of your hand and, while holding the trigger in place with the thumb, fasten it using the closing strap.
- 2. Adjust the size to comfortably fit your hand using the adjustable straps.
- 3. Adjust the position of the trigger to reach it easily with your thumb.









ODATALOGIC



Maintenance and Disposal

The electronic parts are detachable from the fabric to allow:

- washing/changing the fabric
- changing the trigger
- disposing of the different parts



WARNING: Remove the trigger and the electronic parts before washing the fabric.

To remove the holder and the trigger from the fabric, lift the piece of fabric covering the cable as shown below and detach the parts.



To re-assemble the hand trigger, first place the trigger, then the cable under the piece of fabric and lastly the holder.



NOTE: Wash the fabric at 30 °C. Air dry.

Lanyard

The LH-HS7600 extensible lanyard can be used in two ways:

- Worn on the neck.
- Attached to a pocket or a belt by detaching the lanyard from the retractable reel.

The lanyard can be extended for ease of use as shown below.



Lanyard on neck

Lanyard on belt

The LH-HS7600 extensible lanyard also has a safety clip on the back side.



The portable holder can be associated with a type-C USB cable 94A050044 (not included) for charging, firmware updates and device configuration and/or the power supply 94ACC0196.







Removing the Device from the Portable Holder

To remove the device from the portable holder, push the device with your thumb, using your other hand to prevent the device from falling.



NOTE: Push with your thumb perpendicular to the device. Do not push diagonally.



LINKING THE READER

Before configuring the interface it is necessary to link the handheld with a host or a gateway. If the reader was previously linked to another host, you must first scan the Unlink bar code before re-linking.



Link Reader as Serial Device to a Bluetooth Host

Use this procedure to let the CODiScan HS7600 communicate with a Bluetooth host using the Bluetooth Serial Port Profile (SPP).

- 1. If using a Bluetooth adapter on the host device, install any driver provided with the adapter.
- 2. Scan the Link to Host in SPP Mode label below to make the reader visible to the host device.
- 3. Use the Bluetooth manager of the host device to "Discover new devices" and select "HS7600...". If you receive an error message, it may be necessary to change the security settings on either the host device or the reader.
- 4. Use a Serial Port COM terminal program to see incoming data on the port designated by the Bluetooth manager of the host device.



Link to Host in SPP Mode

Link Reader as HID device to a Bluetooth host

Use this procedure to let the CODiScan HS7600 send data to a Bluetooth host using the Bluetooth HID profile.

- 1. If using a Bluetooth adapter on the host device, install any driver provided with the adapter.
- 2. Scan the Link to Host in HID Mode label below to make the reader visible to the host device.
- 3. Use the Bluetooth manager of the host device to "Discover new devices" and select "HS7600...". If you receive an error message, it may be necessary to change the security settings on either the host device or the reader.
- 4. On the host device, open the program that is meant to receive the incoming data.

The data transmitted by the reader will appear in the program as if it was typed using the keyboard of the host device.



Link to Host in HID Mode





NOTE: The CODiScan HS7600 can be set up to authenticate the remote system when connecting, by entering a Bluetooth passkey or a PIN code. If you want to set the security level and authentication options suitable for your application, or when adding new equipment to a system that requires authentication or uses a custom security PIN, please see "Bluetooth Security Level" on page 227

Link Reader as HOGP device to a Bluetooth (LE) host

Use this procedure to let the CODiScan HS7600 send data to a Bluetooth host using the Bluetooth HOGP profile.

- 1. If using a Bluetooth adapter on the host device, install any driver provided with the adapter.
- 2. Scan the Link to Host in HOGP Mode label below to make the reader visible to the host device.
- 3. Use the Bluetooth manager of the host device to "Discover new devices" and select "HS7600...". If you receive an error message, it may be necessary to change the security settings on either the host device or the reader.
- 4. On the host device, open the program that is meant to receive the incoming data.

The data transmitted by the reader will appear in the program as if it was typed using the keyboard of the host device.



Link to Host in HOGP Mode



NOTE: The CODiScan HS7600 can be set up to authenticate the remote system when connecting, by entering a Bluetooth passkey or a PIN code. If you want to set the security level and authentication options suitable for your application, or when adding new equipment to a system that requires authentication or uses a custom security PIN, please see "Bluetooth Security Level" on page 227

Bluetooth Passkey or Pin Code Entry Request

During the pairing process, based on Host and Reader security settings, you may need to

enter a Bluetooth passkey or PIN code. When requested by the Host, simply enter the displayed code by scanning the corresponding bar codes for alphanumeric entry listed in Appendix D. Complete by scanning the End label. To restart the entering of the passkey, read the Restart label.





Power Off

Scan the bar code below to shut off power to the handheld until the next trigger pull.



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3

PARTS OF THE READER



- 1. Scan Window
- 2. Multifunctional key button
- 3. Recharge, trigger and USB contact area
- 4. LEDs

MULTIFUNCTIONAL BUTTON

The multifunctional button on the HS7600 Scanner can be used to read bar codes, as well as to retrieve information, such as battery status, and perform different actions. The table below explains the different actions that can be performed by pressing the multifunction button.

To configure and disable each function, see Aladdin.

MULTIFUNCTIONAL BUTTON	OUTCOME
Press once and hold <5 second	Device reads the label
Double Press (only on iOS)	Enable and disable virtual keyboard on the screen of the connected host.
Triple Press	If the device is connected to a host via Blue- tooth, the rear LED turns blue for 2 seconds
Press and hold 5-9 seconds	Check battery status: Green Side LED (charge > 50%) Orange Side LED (charge < 50%)
Hold >10 seconds	Unlink from any connected host
Press >5 seconds the hand trigger with the device inserted + multifunctional button	HW reset

SCANNER LEDS

The LEDs on the HS7600 provide information about the charging status when the device is inserted in a charging station. See the following table for a description of the different LED colors:

Table 1 - Battery and Recharge LED Description

COLOR	BATTERY STATUS
Off	Scanner is not charging or Out of charging temperature limits
Blinking Color Orange (charge = <50%) Green (charge = >50%)	Charge in Progress
Solid Green	Charge Complete

CONNECTING THE DEVICE

The Device can be connected via Bluetooth (both Classic or Low Energy). Use a Gateway to extend the connectivity to USB/Wi-Fi. See Gateway Instruction Manual for further information.

INTERFACE SELECTION

Upon completing the physical connection between the reader and its host, proceed directly to "Configuring THE GATEWAY Interface" on page 19 for information and programming for the interface type the scanner is connected to (for example: USB) and scan the appropriate bar code in that section to select your system's correct interface type.

The reader, depending upon the model, will support one or more of the following sets of host interfaces:

- USB (Keyboard, COM, OEM)
- USB Composite (Keyboard + COM)
- USB HID POS
- USB Toshiba TEC
- Datalogic Magellan Scanners' specific interface

CONFIGURING THE GATEWAY INTERFACE

Scan the programming bar code from the following section which selects the appropriate interface type to match the system the reader 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 reader to start in the disabled state when powered up. If additional reader configuration is desired while in this state, pull the trigger and hold for 5 seconds. The reader will change to a state that allows programming with bar codes.

Table 2 - Available Interfaces

USB-	-OEM
1995年 1985年 1985年	USB-0EM (can be used for 0P0S/UP0S/JavaP0S)
Select USB-OEM	



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 reader if the unlock is not successful.

 Table 3 - Available Interfaces (continued)

SERIAL INTERFACES	
	USB-COM (simulates RS-232 standard interface)
Select USB-COM-STD ^a	
a. Download the correct USB Com driver from www.datalogic.com.	

 USB FOR TERMINALS

 USB HID POS
 Image: Colspan="2">Image: Colspan="2" Television

 Image: Colspan="2" Television

 <td colspan="2" Telev
| KEYBOARD | | | | |
|--|--|--|--|--|
| USB Keyboard with standard key encoding | | | | |
| | Select USB Standard Keyboard | | | |
| Solart USD Alternative Keyboard | USB Keyboard with alternative key encoding | | | |
| Select USB Alternative Reyboard | | | | |
| USB-Composite
(combines USB-KBD emulation and USB-COM | Solart USP. Composito | | | |

CUSTOMIZING CONFIGURATION SETTINGS

Using the Programming Bar Codes

This manual contains feature descriptions and bar codes which allow you to reconfigure your reader. Some programming bar code labels, like Resetting the Product Configuration to Defaults, starting on page 24, require only the scan of that single label to enact the change.

Most of the programming labels in this manual, 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, 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 reader to normal operation.



NOTE: There are some exceptions to the typical programming sequence described above. Please read the description and setting instructions care-fully 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 serial or USB cable and can also create configuration bar codes to print.

Datalogic Aladdin[™] is a multi-platform utility program providing a quick and userfriendly configuration method via the USB-COM interface. The Aladdin utility is available on the Datalogic website. 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 provides the ability to perform a software upgrade for the connected device (see the Datalogic Aladdin[™] Help On-Line for more details).

Aladdin™APP

Aladdin[™]APP is an Android platform utility program providing a quick and user-friendly configuration method via Bluetooth. Aladdin APP allows you to program the reader by selecting configuration commands through a user-friendly graphical interface running on Android host. Aladdin APP also facilitates image capturing, keyboard emulation.

In addition, Aladdin APP makes it easy to upgrade the handheld's firmware, to attain the benefits of new reader features.

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

Interface Settings

The reader 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 25 provides settings configurable by all interface types. If your installation requires you to further customize your reader, you can select other options through use of the instructions and programming bar codes available in the appropriate section for your interface.

- "USB-COM Interfaces" on page 28
- USB Composite (COM + Keyboard) on page 21
- KEYBOARD INTERFACE on page 37
- USB-OEM INTERFACE on page 64

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, beeper and LED indicators and other such universal settings.

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

1D Symbologies: Includes options concerning the bar code label types (symbologies). These settings allow you to enable/disable symbologies, set label lengths, require check digit, etc.

2D Symbologies: Includes options concerning the bar code label types (symbologies). These settings allow you to enable/disable symbologies, set label lengths, require check digit, etc.

Software Version Transmission

The software version of the device can be transmitted over the Bluetooth 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 reader, or you've changed some options and want to restore the Custom Default Configuration that may have been saved in the reader, 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 reader 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 71 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 22.



NOTE: You must first enable your CODiScan to read bar codes in order to use this section. If you have not done this, go to Setup, starting on page 5 **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 277 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.

 \star 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.

Gateway Interface Configuration:

- USB-COM Settings, starting on page 29
- Keyboard Interface, starting on page 37
- USB-OEM Interface, starting on page 64

Parameters common to all interface applications:

- Global Prefix/Suffix, starting on page 67
- Data Format, starting on page 66 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 77 controls various operating modes and indicators status functioning.

Symbology-specific parameters:

1D Symbologies, starting on page 97 and 2D Symbologies, starting on page 182 define 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 5 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 238.

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 PROGRAM-MING bar code to exit Programming Mode.

For more detailed descriptions, programming information and examples for setting selected configuration items, see References, starting on page 238.



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

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 239 for more detailed programming instructions.



Intercharacter Delay = No Delay

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.

Select Intercharacter Delay Setting



 \star 00 = No Intercharacter Delay





Beep On ASCII BEL

When this parameter is enabled, the reader issues a beep when a <BEL> character is detected on the RS-232 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 reader 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 reader to support the RS-232 ACK/NAK protocol. When configured, the reader 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 reader expects an ACK/NAK response from the host when a label is sent.
- Enable for host-command acknowledge The reader 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 240 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. 8-bit data is not recognized when the option "Data Bits" on page 24 has been set as 7 Data Bits.



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.



★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 241 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. 8-bit data is not recognized when the option "Data Bits" on page 24 has been set as 7 Data Bits.



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.



★0x15 'NAK' Character





ACK NAK Timeout Value

This option specifies the amount of time the reader 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 242 for more detailed programming instructions.



Select ACK NAK Timeout Value 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.



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 scan-

ning the ENTER/EXIT bar code again.

★01 ACK NAK Timeout value is 200ms

ACK NAK Retry Count

This feature specifies the number of times the reader 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 243 for more detailed programming instructions.



Select ACK NAK Retry Count 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.



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 scan-

ning the ENTER/EXIT bar code again.

★003 = 3 Retries



ACK NAK Error Handling

This feature specifies the method the reader 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 reader'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 USB COM host command used to disable the reader.

ASCII characters or any hex value from 0 to 0xFF can be selected. See "Disable Character" on page 244 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.



 \star 0x44 = Disable Character is 'D'

Enable Character

Specifies the value of the USB COM host command used to enable the reader.

ASCII characters or any hex value from 0 to 0xFF can be selected. See "Enable Character" on page 245for 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.



 \star 0x45 = Enable Character is 'E'

NOTES



CONFIGURATION | KEYBOARD INTERFACE

SECTION CONTENTS							
ng on page 53							
 Intercharacter Delay Intercharacter Delay Intercode Delay USB Keyhaard Speed 							
	ng on page 53 Intercharacter Delay Intercharacter Delay Intercode Delay						

Use the programming bar codes in this chapter to select options for USB Keyboard and for keyboard emulations via BT (HID/HOGP). 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, Scancode 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:

Registry Editor	a management			·	
Edit <u>V</u> iew F <u>a</u> vorites <u>H</u> elp		1 _ color	1 - 200		
	Name	Туре	Data		
HKEY_CLASSES_KOUT	ab) (Default)	REG_SZ	(value not set)		
	ab EnableHexNumpad	REG_SZ	1		
Concolo	ab Show Status	REG_SZ	1		
A Control Panel					
Appearance					
Bluetooth					
Colors					
Cursors					
b-					
don't load					
▶ - 🔟 Infrared 📃					
Input Method					
🛛 🔒 Hot Keys					
- International					
Mouse					
Personalization					
PowerCfg					
Sound					
P-					
👂 🎍 Identities 📃					
Keyboard Layout					
Network					
Printers					
D Software					
D - Svstem					

3. Reset the PC.



Setting Country Mode



★United States



French International (Belgian French)



United Kingdom



Danish



French (France)





Italian



Setting Country Mode (continued)



Norwegian



Portuguese (Portugal)





Swedish



Swiss French



Japanese ASCII



Hungarian





Setting Country Mode (continued)



Czech



SlovaK



Croatian



Polish_214



French Canadian Win7



Lithuanian



Setting Country Mode (continued)



Vietnamese



Russian







Thai-Kedmanee



Albanian



Arabic 102







Setting Country Mode (continued)



Arabic 102 AZERTY





Azeri Latin



Belarusian



Bosnian Cyrillic



Bosnian Latin



Bulgarian Cyrillic



Setting Country Mode (continued)



Bulgarian Latin







Chinese (Traditional)



Czech Programmers



Czech QWERTY





Setting Country Mode (continued)



Dutch Netherland



Faeroese



Finnish



French (Canada) 2000/XP





Galician



Setting Country Mode (continued)



Greek Latin







Greek220 Latin



Greek319



Greek319 Latin





Setting Country Mode (continued)



Hebrew Israel







Irish



Italian_142



Japanese (Shift-JIS)



Kazakh



Setting Country Mode (continued)



Korean (Hangul)



Korean ASCII







Latvian





Lithuanian_IBM





Setting Country Mode (continued)



Macedonian -FYROM





Mongolian-Cyrillic





Portuguese Brazil





Portuguese Brazilian ABNT2



Setting Country Mode (continued)



Romanian Legacy





Romanian Standard



Russian Typewriter



Serbian Cyrillic



Serbian Latin



Slovak QWERTY





Setting Country Mode (continued)



Slovenian





Swiss German



Tatar





Ukrainian





KEYBOARD INTERFACE

Setting Country Mode (continued)



US Dvorak



US Dvorak Right Hand





US English (North American)









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 1252





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 = ISO 8859-1

Encoding Type = ISO 8859-2



Encoding Type = ISO 8859-3



Encoding Type (continued)



Encoding Type = ISO 8859-4





Encoding Type = ISO 8859-6





Encoding Type = ISO 8859-8





Encoding Type = ISO 8859-10




Encoding Type (continued)



Encoding Type = ISO 8859-11





Encoding Type = ISO 8859-14





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 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 865





Encoding Type = MS-DOS 869



Encoding Type = Mac CP10000



ALT Output Type

This option specifies the encode type of ALT Mode when the reader sends Output Keyboard Data in Alt Mode. (Be aware that the reader 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 reader 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 USB-Keyboard Alt Mode" on page 300). 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 246 for more detailed programming instructions.



Intercharacter Delay = No Delay

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.

Select Intercharacter Delay 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.



 \star 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 247 for more detailed programming instructions



Set Intercode Delay

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star 00 = No Intercode Delay



USB Keyboard Speed

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





★ 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 Device Usage

The USB-OEM protocol allows for the reader to be identified as one of two different types of bar code reader. Depending on what other reader 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





USB-OEM Device Usage = Tabletop Scanner



★ USB-0EM Device Usage = Handheld Scanner

CONFIGURATION DATA FORMAT

SECTION CONTENTS

GLOBAL SETTINGS starting on page 67

- Global Prefix/Suffix
- Case Conversion
- Character Conversion

LABEL ID starting on page 70

- Label ID: Set Individually Per Symbology
- Label ID Symbology Selection

Global AIM ID

• GS1-128 AIM ID

Label ID Control



GLOBAL SETTINGS

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 page 249 in "References" for more detailed programming instructions.

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.



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.



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.



★ No Global Prefix
★ Global Suffix = Global Suffix = 0x0D(CR)



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 page 255 in "References" for more detailed programming instructions.



Configure Character Conversion

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











Global AIM ID



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

AIM label identifiers (as opposed to custom characters you select yourself as with label identifiers) can be included with scanned bar code data. See 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 71). If you wish to program the reader to always include an industry standard label identifier for ALL symbology types, see the previous feature "Global AIM ID" on page 69.

Label ID: Pre-loaded Sets

The reader supports two pre-loaded sets of Label IDs, the USA set and the EU set. See "Label ID: Pre-loaded Sets" on page 251 for more information concerning the pre-loaded sets that are provided.



CAUTION: When changing from one Label ID set to another, all other reader 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

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 253 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 253 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.





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







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)



DATA FORMAT

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 HR 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







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)





DATA FORMAT

Label ID Symbology Selection (continued)



Code 11 Label ID Character(s)





Plessey Label ID Character(s)



Anker Plessey Label ID Character(s)



Set Matrix 2 of 5 Label ID Character(s)



CONFIGURATION | READING PARAMETERS

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SCANNING FEATURES

Scan Mode

Selects the reader's scan operating mode. See page 256 in "References" for descriptions.











Scan Mode = Object Detection





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 256 in "References" for further description of this feature.



Scanning Active Time = 3 seconds



★ Scanning Active Time = 5 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 258 in "References" for detailed information on setting this feature.



Select Flash ON Time 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. To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star 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 259 in "References" for detailed information on setting this feature.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star 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 = 0.4 Second



SCANNING FEATURES



Double Read Timeout (continued)









Double Read Timeout = 0.8 Second









Object Detection Sensitivity

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





★ Object Detection Sensitivity = Medium





SCANNING FEATURES

Object Detection Illumination Off Time

Specifies the amount of time reader illumination stays off after pulling the trigger when in 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

 \star 04 = Illumination OFF Time 1 second



LED AND BEEPER INDICATORS

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 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



READING PARAMETERS

Good Read Beep Length









Good Read Beep Length = 120 msec



Good Read Beep Length = 140 msec





Good Read Beep Length = 180 msec







Good Read Beeper Volume

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



Good Read Beeper Volume = Beeper Off



Good Read Beeper Volume = Low



★Good Read Beeper Volume = High



Silent Mode

If needed, audible indications can be disabled by scanning the labels below.

Please note that some important audible notifications are not muted in silent mode and other notifications are replaced by visual indications.

All changes in audible notifications are summarized here:

- Connection / Disconnection / out of radio range beeps are replaced with blue LED
- Error beep, wireless Error/timeout beeps, chirp beeps are replaced with red top LED
- Battery beeps, Programming labels, and wireless paging beeps are not muted





★ Silent Mode = Disable





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. A setting of 00 keeps the LED on until the next trigger pull.

See page 260 in "References" for detailed instructions and examples for setting this feature.



Good Read LED Duration Setting = Keep LED on until next trigger pull

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



Select Good Read LED Duration 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.



 \star 003 = Good Read LED stays on for 300 msec.





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 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)



Good Read Vibration Duration

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



Good Read Vibration Duration = OFF



★ Good Read Vibration Duration = Vibration ON (200

msec)



Good Read Vibration Duration = ON (600 msec)





CAMERA CONTROL

Aiming Pointer

Enables/disables the aiming pointer for all symbologies.







Pick Mode

Specifies the ability of the reader to decode labels only when they are close to the center of the aiming pattern. This allows the reader to accurately target labels when they are placed close together, such as on a pick sheet.

The Pick Mode can be enabled only in Trigger Single Scan Mode.



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



★Pick Mode = Disable






Mobile Phone Mode

This mode is useful for scanning bar codes displayed on a mobile phone. Other options for this feature can be configured using the Datalogic Aladdin application.



Mobile Phone Mode = Disable





Mobile Phone Mode = Enhanced

Mobile Phone Saturation Rate

This specifies the minimum number of saturated pixels (every 1000 pixels) in the image in order to activate the Mobile Phone mode.



 \star Mobile Phone Saturation Rate = 00



Mobile Phone Saturation Rate = 01



Mobile Phone Saturation Rate = 02

Decode Negative Image

Enable/Disable the ability to decode a negative image for all symbologies. When this feature is enabled, you will be unable to read normally-printed labels or programming labels in this manual. Scan the "Disable" bar code below to return the reader to its default for this feature. To set decoding for only 2D codes, go to "2D Normal/Inverse Symbol Control" on page 184. For additional options, see the Aladdin configuration application.



NOTE: Unlike some programming features and options, Decode Negative Image selections require that you scan only one programming bar code label. DO NOT scan an ENTER/EXIT bar code prior to scanning a Decode Negative Image bar code.



CAUTION: When this feature is enabled, you will be unable to read other programming labels in this manual.



★ Decode Negative Image = Disable



Decode Negative Image = Enable

Image Capture

For information and a list of options for Image Capture, use the Datalogic Aladdin configuration application, available for free download from the Datalogic Scanning website.





MULTIPLE LABEL READING

In standard (default) mode, when the reader's aiming system is activated (by a trigger pull, motion or other method depending on the mode), it acquires and processes each image in the area in front of it (the Volume). In this case, the reader stops processing the image once it decodes a label. If several labels are present in the volume, only the first label encountered is decoded and sent.

When Multiple Reading Mode is enabled, the reader keeps on processing the image until all the labels present are decoded. The reader then sorts the data from all the bar codes (if configured to do so) before transmitting it.

Multiple Labels per Frame

Specifies the ability of the reader to decode and transmit a set of code labels in a specific volume and in a single frame of time. When in Multiple Labels per Frame the reader beeps and turns on the good read LED indication for each code read in a frame.

When Multiple Labels Mode is enabled, ISBT pairing, ABC Codabar pairing, and composites are not allowed.



★ Multiple Labels per Frame = Disable



Multiple Labels per Frame = Enable

Multiple Labels Ordering by Code Symbology

This feature allows you to specify the order multiple labels are transmitted by symbology type, when Multiple Labels per Frame is enabled.



Select Symbologies for Multiple Labels Ordering

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





★00000000000 = Random order





ENTER/EXIT PROGRAMMING MODE

Multiple Labels Ordering by Code Length

Specifies the transmission ordering by code length, when Multiple Labels per Frame is enabled.



★ Multiple Labels Ordering = Disable



Multiple Labels Ordering = Transmit Increasing Length Order



Multiple Labels Ordering = Transmit Decreasing Length Order



CONFIGURATION | 1D SYMBOLOGIES

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- UPC-E starting on page 101
- EAN-13 starting on page 104
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1D SYMBOLOGIES

DISABLE ALL SYMBOLOGIES

Scan this label to disable all symbologies.



Disable All Symbologies

COUPON CONTROL

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 reader 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-A



Coupon Control = Enable only GS1 DataBar





UPC-A

The following options apply to the UPC-A symbology.

UPC-A Enable/Disable

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





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 reader will not read UPC-E bar codes.





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



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.



\star UPC-E to UPC-A = Don't 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 reader will not read EAN-13 bar codes.





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



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 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 = Enable



EAN-8

The following options apply to the EAN-8 symbology.

EAN-8 Enable/Disable

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





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



ENTER/EXIT PROGRAMMING MODE

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 = Disable



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



ENTER/EXIT PROGRAMMING MODE

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 = 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 reader 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 reader 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 reader 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 reader 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





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

GS1 DataBar Omnidirectional Enable/Disable

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



ENTER/EXIT PROGRAMMING MODE

★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 reader 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 115. 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 262 for more detailed programming instructions.



Select GS1 DataBar Expanded Set Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \bigstar Length 1 = 01 (one character)



ENTER/EXIT PROGRAMMING MODE

GS1 DataBar Expanded Set Length 2

This feature specifies one of the bar code lengths for "GS1 DataBar Expanded Length Control" on page 115. 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 263 for more detailed programming instructions.

ENTER/EXIT bar code again.



Select GS1 DataBar Expanded Set Length 2 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.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in Appendix D, Keypad represent-

ing your desired character(s). End by scanning the

 \star Length 2 = 74 (74 characters)



GS1 DATABAR™ LIMITED

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

GS1 DataBar Limited Enable/Disable

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



Code 39 = Disable



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 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.



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





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 121. 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 262 for more detailed programming instructions.

ENTER/EXIT bar code again.



Select Code 39 Set Length 1 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.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in Appendix D, Keypad represent-

ing your desired character(s). End by scanning the

CANCEL

 \star Length 1 = 02 (2 characters)





ENTER/EXIT PROGRAMMING MODE

Code 39 Set Length 2

This feature specifies one of the bar code lengths for "Code 39 Length Control" on page 121. 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 263 for more detailed programming instructions.



Select Code 39 Set Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star Length 2 = 50 (50 characters)





TRIOPTIC CODE

The following options apply to the trioptic symbology.

Trioptic Code Enable/Disable

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



\star 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 reader 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 reader 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 reader 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 120 "Code 39 Length Control" on page 121

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



ENTER/EXIT PROGRAMMING MODE

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 HR (FRENCH PHARMACEUTICAL)

The following options apply to the Code 39 CIP HR symbology.

Code 39 CIP HR Enable/Disable

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



★ Code 39 CIP HR = Disable



Code 39 CIP HR = Enable





CODE 128

The following options apply to the Code 128 symbology.

Code 128 Enable/Disable

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



Code 128 = Disable



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



ENTER/EXIT PROGRAMMING MODE

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 129. 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 262 for more detailed programming instructions.



Select Code 128 Set Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \bigstar 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 129. 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 263 for more detailed programming instructions.



Select Code 128 Set Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star 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 reader 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



1D SYMBOLOGIES

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 reader will not read I 2 of 5 bar codes.









I 2 of 5 Check Character Calculation

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



 \star 12 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



 \star 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 135. 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 262 for more detailed programming instructions.

ENTER/EXIT bar code again.



Select I 2 of 5 Set Length 1 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.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in Appendix D, Keypad represent-

ing your desired character(s). End by scanning the

 \star 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 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 2 to 50 characters in increments of two. A setting of 00 specifies to ignore this length (only one fixed length). See "Set Length 2" on page 263 for more detailed programming instructions.



Select I 2 of 5 Set Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



CANCE

★Length 2 = 50 (50 characters)



INTERLEAVED 2 OF 5, FEBRABAN

Interleaved 2 of 5, Febraban format Enable / Disable



Enables/Disables ability of reader to decode Interleaved 2 of 5, Febraban format.



 \star 2 of 5, Febraban format = Disable



2 of 5, Febraban format = Enable

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 reader to decode Interleaved 2 of 5 CIP HR labels.



 \star Interleaved 2 of 5 CIP HR = Disable



Interleaved 2 of 5 CIP HR = Enable

MATRIX 2 OF 5





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

Matrix 2 of 5 Enable/Disable

When disabled, the reader will not read Matrix 2 of 5 bar codes.



 \star Matrix 2 of 5 = Disable



Matrix 2 of 5 = Enable

Matrix 2 of 5 Check Character Calculation

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



★ Matrix 2 of 5 Check Character Calculation = Disable



Matrix 2 of 5 Check Character Calculation = Enable







Matrix 2 of 5 Check Character Transmission

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



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



★ Matrix 2 of 5 Check Character Transmission = Send

Matrix 2 of 5 Length Control

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



★ Matrix 2 of 5 Length Control = Variable Length



Matrix 2 of 5 Length Control = Fixed Length



Matrix 2 of 5 Set Length 1

This feature specifies one of the bar code lengths for "Standard 2 of 5 Length Control" on page 142. 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 262 for more detailed programming instructions.



Select Matrix 2 of 5 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star Length 1 = 08 (8 characters)

Matrix 2 of 5 Set Length 2

This feature specifies one of the bar code lengths for "Standard 2 of 5 Length Control" on page 142. 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 263 for more detailed programming instructions.



Select Matrix 2 of 5 Set Length 2 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.









STANDARD 2 OF 5

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

Standard 2 of 5 Enable/Disable

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



 \bigstar 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



1D SYMBOLOGIES

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 142. 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 262 for more detailed programming instructions.



Select Standard 2 of 5 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



★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 142. 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 263 for more detailed programming instructions.



Select Standard 2 of 5 Set Length 2 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.





 \bigstar 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 reader will not read Compressed 2 of 5 bar codes.



\star 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.



 \star Compressed 2 of 5 Check Character Calculation

= Disable



Compressed 2 of 5 Check Character Calculation = Enable







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 145. 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 262 for more detailed programming instructions.



Select Compressed 2 of 5 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \bigstar 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 145. 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 263 for more detailed programming instructions.



Select Compressed 2 of 5 Set Length 2 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.











DATALOGIC 2 OF 5

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

Datalogic 2 of 5 Enable/Disable

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



 \star 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 148. 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 262 for more detailed programming instructions.



Select Datalogic 2 of 5 Length 1 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.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in Appendix D, Keypad represent-

ing your desired character(s). End by scanning the

ENTER/EXIT bar code again.

 \star 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 148. 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 263 for more detailed programming instructions.



Select Datalogic 2 of 5 Set Length 2 Setting

and not save the entry string. You can then start

meric 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



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanu-

 \star Length 2 = 50 (50 characters)

again at the beginning.



INDUSTRIAL 2 OF 5

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

Industrial 2 of 5 Enable/Disable

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



 \bigstar Industrial 2 of 5 = Disable



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 151. 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 262 for more detailed programming instructions.



Select Industrial 2 of 5 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \bigstar 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 151. 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 263 for more detailed programming instructions.



Select Industrial 2 of 5 Set Length 2 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.











IATA

The following options apply to the IATA symbology.

IATA Enable/Disable

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



★IATA = Disable



IATA Check Character Transmission

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



IATA Check Character Transmission = Don't Send



 \star 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 reader to decode Follett 2 of 5 labels.



\star Follett 2 of 5 = Disable



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CODABAR

CODABAR

The following options apply to the Codabar symbology.

Codabar Enable/Disable

When disabled, the reader 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



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 159. 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 262 for more detailed programming instructions.

ENTER/EXIT bar code again.



Select Codabar Length 1 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.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in Appendix D, Keypad represent-

ing your desired character(s). End by scanning the

 \bigstar Length 1 = 03 (3 characters)



1D SYMBOLOGIES

Codabar Set Length 2

This feature specifies one of the bar code lengths for "Codabar Length Control" on page 159. 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 263 for more detailed programming instructions.



Select Codabar Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star Length 2 = 50 (50 characters)



ABC CODABAR

The following options apply to the ABC Codabar symbology.

ABC Codabar Enable/Disable

Enables/Disables ability of reader 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



1D SYMBOLOGIES

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.

ENTER/EXIT bar code again.



Select ABC Codabar Dynamic Concatenation Timeout 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.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in Appendix D, Keypad represent-

ing your desired character(s). End by scanning the

★Timeout = 20 (200 msec)

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 Contatenation = Disable



ABC Codabar Force Concatenation = Enable





ISBT 128

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 Contatenation 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



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 163 is enabled.



★ ISBT 128 Force Contatenation = 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 reader will not read Code 11 bar codes.





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 167. 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 262 for more detailed programming instructions.



Select Code 11 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \bigstar 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 167. 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 263 for more detailed programming instructions.



Select Code 11 Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star Length 2 = 50 (50 characters)



CODE 93

The following options apply to the Code 93 symbology.

Code 93 Enable/Disable

Enables/Disables ability of reader 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 170. 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 262 for more detailed programming instructions.



Select Code 93 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \bigstar 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 170. 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 263 for more detailed programming instructions.

ENTER/EXIT bar code again.



Select Code 93 Length 2 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.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in Appendix D, Keypad represent-

ing your desired character(s). End by scanning the

 \star Length 2 = 50 (50 characters)

CODE 93



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





MSI

The following options apply to the MSI symbology.

MSI Enable/Disable

Enables/Disables ability of reader to decode MSI labels.





MSI Check Character Calculation

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



MSI Check Character Calculation = Disable



★ MSI Check Character Calculation = Calculate Mod 10



MSI Check Character Calculation = Calculate Mod 11/10



MSI Check Character Calculation = Calculate Mod 10/10

MSI





MSI Check Character Transmission

Enables/disables transmission of an MSI check character.



MSI Check Character Transmission = Don't Send



★ MSI Check Character Transmission = Send

MSI Length Control

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



★ MSI Length Control = Variable Length



MSI Length Control = Fixed Length





MSI Set Length 1

This feature specifies one of the bar code lengths for "MSI Length Control" on page 174. 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 50 characters. See "Set Length 1" on page 262 for more detailed programming instructions.



Select MSI Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \bigstar Length 1 = 01 (one character)

MSI Set Length 2

This feature specifies one of the bar code lengths for "MSI Length Control" on page 174. 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 data characters only.

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 263 for more detailed programming instructions.



Select MSI Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star Length 2 = 50 (50 characters)



PLESSEY

The following options apply to the Plessey symbology.

Plessey Enable/Disable

Enables/Disables ability of reader to decode Plessey labels.



★ Plessey = Disable



Plessey Check Character Calculation

Enables/Disables calculation and verification of a Plessey check character.



Plessey Check Character Calculation = Disable



★ Plessey Check Character Calculation = Plessey std check char. verification



Plessey Check Character Calculation = Anker check char. verification



Plessey Check Character Calculation = Plessey std and Anker check char. verification



PLESSEY



Plessey Check Character Transmission

Enables/disables transmission of a Plessey check character.



Plessey Check Character Transmission = Don't Send



★ Plessey Check Character Transmission = Send

Plessey Length Control

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



★ Plessey Length Control = Variable Length



Plessey Length Control = Fixed Length



Plessey Set Length 1

This feature specifies one of the bar code lengths for "Plessey Length Control" on page 177. 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 262 for more detailed programming instructions.



Select Plessey Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star Length 1 = 01 (one character)

Plessey Set Length 2

This feature specifies one of the bar code lengths for "Plessey Length Control" on page 177. 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.

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 263 for more detailed programming instructions.



Select Plessey Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star Length 2 = 50 (50 characters)



BC412

The following options apply to the BC412 symbology.

BC412 Enable/Disable

Enables/Disables ability of reader to decode BC412 labels.





BC412 Check Character Calculation

Enable this option to enable/disable calculation and verification of an optional BC412 check character. When disabled, any check character in the label is treated as a data character.



BC412 Check Character Calculation = Disable



★ BC412 Check Character Calculation = Calculate

BC412



BC412 Length Control

This feature specifies either variable length decoding or fixed length decoding for the BC412 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.



★ BC412 Length Control = Variable Length



BC412 Length Control = Fixed Length



BC412 Set Length 1

This feature specifies one of the bar code lengths for "BC412 Length Control" on page 180. 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 01 to 50 characters. See "Set Length 1" on page 262 for more detailed programming instructions.



Select BC412 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \bigstar Length 1 = 01 (one character)

BC412 Set Length 2

This feature specifies one of the bar code lengths for "BC412 Length Control" on page 180. 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 01 to 50 characters. A setting of 00 specifies to ignore this length (only one fixed length). See "Set Length 2" on page 263 for more detailed programming instructions.



Select BC412 Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \bigstar Length 2 = 50 (50 characters)

CONFIGURATION | 2D SYMBOLOGIES

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The reader supports the following 2D symbologies (bar code types). Symbology-dependent options for each symbology are included in this chapter. See "**1D SymBoLogIES** starting on page 97 for configuration of 1D bar codes.



2D GLOBAL FEATURES

The following features are common to all, or in some cases, most of the available 2D symbologies. Default settings are indicated at each feature/option with a green arrow. Also reference Appendix B, Standard Defaults for a listing of the most widely used set of standard factory settings. That section also provides space to record any custom settings needed or implemented for your system.

To set most features:

- 1. Scan the ENTER/EXIT PROGRAMMING bar code at the top of applicable programming pages.
- 2. Scan the correct bar code to set the desired programming feature or parameter. 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, Keypad, and scan the appropriate characters from the keypad.



NOTE: Additional information about many features can be found in the "References" chapter.

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.

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



2D Structured Append

Enables/disables ability of reader to append multiple 2D Codes labels in a structured format. The structured append property is globally applied to the following symbologies, if these are enabled:

- Data Matrix
- Aztec
- QR Code
- PDF 417



★ Structured Append = Disable



Structured Append = Enable

2D Normal/Inverse Symbol Control

Specifies the options available for decoding normal/negative printed 2D symbols. This configuration item applies globally to all the 2D symbologies that support that feature according to Standard AIM Specification: Data Matrix, QR, MicroQR, Aztec and Chinese Sensible Code.



★ Normal/Inverse Symbol Control = Normal



Normal/Inverse Symbol Control = Inverse



Normal/Inverse Symbol Control =Both Normal and Inverse





AZTEC CODE

Aztec Code Enable / Disable

Enables/disables the ability of the reader to decode Aztec Code labels.





Aztec Code Length Control

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

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

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



Aztec Code Length Control = Variable Length



Aztec Code Length Control = Fixed Length



2D SYMBOLOGIES

Aztec Code Set Length 1

Specifies one of the bar code lengths for "Aztec Code Length Control" on page 185.

Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Characters can be set from 0001 to 3,832 characters in increments of 0001 (pad with zeroes).

See "Set Length 1" on page 262 for detailed instructions on setting this feature.



Select Aztec Code Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



★0001 = Length 1 is 1 Character

Aztec Code Set Length 2

Specifies one of the bar code lengths for "Aztec Code Length Control" on page 185.

Length 2 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Characters can be set from 0001 to 3,832 characters in increments of 0001 (pad with zeroes).

See "Set Length 2" on page 263 for detailed instructions on setting this feature.



Select Aztec Code Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



★ Length 2 is 3,832 Characters





CHINA SENSIBLE CODE

China Sensible Code Enable / Disable

Enables/disables the ability of the reader to decode China Sensible Code labels.



★ China Sensible Code = Disable



China Sensible Code = Enable

China Sensible Code Length Control

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

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

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



★ China Sensible Code Length Control = Variable Length



China Sensible Code Length Control = Fixed Length



2D SYMBOLOGIES

China Sensible Code Set Length 1

Specifies one of the bar code lengths for "China Sensible Code Length Control" on page 187. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Characters can be set from 0001 to 7,827 characters in increments of 0001 (pad with zeroes).

See "Set Length 1" on page 262 for detailed instructions on setting this feature.



Select China Sensible Code Length 1 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.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in Appendix D, Keypad represent-

ing your desired character(s). End by scanning the

ENTER/EXIT bar code again.

 \star 0001 = Length 1 is 1 Character

China Sensible Code Set Length 2

This feature specifies one of the bar code lengths for "China Sensible Code Length Control" on page 187. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Characters can be set from 0001 to 7,827 characters in increments of 0001 (pad with zeroes).

See "Set Length 2" on page 263 for detailed instructions on setting this feature.



Select China Sensible Code Length 2 Setting

GRAMMING 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.



To configure this feature, scan the ENTER/EXIT PRO-

★Length 2 is 7,827 Characters



DATA MATRIX

Data Matrix Enable / Disable

Enables/disables ability of reader to decode Data Matrix labels.



Data Matrix = Disable



Data Matrix Square/Rectangular Style

Specifies the options available when reading Data Matrix with different form factors. Choices are:

- Square Style
- Rectangular Style
- Both Square and Rectangular Style

The configuration item can also be configured as a bit mask to filter one or more Data Matrix labels with different symbol size AND shape styles.



Data Matrix Dimensions Mask = Square Style



Data Matrix Dimensions Mask = Rectangular Style



★ Data Matrix Dimensions Mask = Both Square and Rectangular Style





Data Matrix Length Control

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

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

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



★ Data Matrix Length Control = Variable Length



Data Matrix Length Control = Fixed Length

Data Matrix Set Length 1

This feature specifies one of the bar code lengths for "Data Matrix Length Control" on page 190. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Characters can be set from 0001 to 3,116 characters in increments of 0001 (pad with zeroes).

See "Set Length 1" on page 262 for detailed instructions on setting this feature.



Select Data Matrix Length 1 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.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in Appendix D, Keypad represent-

ing your desired character(s). End by scanning the

ENTER/EXIT bar code again.

CANCEL

 \star 0001 = Length 1 is 1 Character



Data Matrix Set Length 2

This feature specifies one of the bar code lengths for "Data Matrix Length Control" on page 190. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Characters can be set from 0001 to 3,116 characters in increments of 0001 (pad with zeroes).

See "Set Length 2" on page 263 for detailed instructions on setting this feature.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.

Select Data Matrix Length 2 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.



★Length 2 is 3,116 Characters



GS1 DOTCODE

The following options apply for the DotCode barcode decoding

DotCode Enable

This options enables/disables the ability of the reader to decode DotCode barcodes.



DotCode = Enable



★ DotCode = Disable

DotCode High Resolution Enable

This options improves the decoding performance for very small module size barcodes, e.g. tobacco products.



★ DotCode High Resolution = Enable



DotCode High Resolution = Disable







DotCode Position-based Decoding

This option can improve the decoding performance when the next barcode to be decoded is approximately shown in the same position as the previous one.



DotCode Position-based Decoding = Enable



★ DotCode Position-based Decoding = Disable

Additional Options

To improve performances the following additional settings are available using Aladdin configuration utility, downloadable from www.datalogic.com.

- Dot Size
- Fixed Length or Variable Length
- Min and Max barcode size



MAXICODE

Maxicode Enable / Disable

Enables/disables ability of reader to decode Maxicode labels.





Maxicode Primary Message Transmission

Enables/disables the transmission of only the Primary Message when the Secondary Message is not readable.



★ Maxicode Primary Message Transmission = Disable



Maxicode Primary Message Transmission = Enable





Maxicode Length Control

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

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

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



★ Maxicode Length Control = Variable Length



Maxicode Length Control = Fixed Length

Maxicode Set Length 1

Specifies one of the bar code lengths for "Maxicode Length Control" on page 195. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Characters can be set from 0001 to 0145 characters in increments of 0001 (pad with zeroes).

See "Set Length 1" on page 262 for detailed instructions on setting this feature.



Select Maxicode Length 1 Setting

GRAMMING 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.

To configure this feature, scan the ENTER/EXIT PRO-

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



 \star 0001 = Length 1 is 1 Character



Maxicode Set Length 2

This feature specifies one of the bar code lengths for "Maxicode Length Control" on page 195. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Characters can be set from 0001 to 0145 characters in increments of 0001 (pad with zeroes).

See "Set Length 2" on page 263 for detailed instructions on setting this feature.



Select Maxicode Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



★Length 2 is 0145 Characters





PDF417

PDF417 Enable / Disable

Enables/disables the ability of the reader to decode PDF417 labels.





PDF417 Length Control

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

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

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



★ PDF417 Length Control = Variable Length



PDF417 Length Control = Fixed Length





PDF417 Set Length 1

Specifies one of the bar code lengths for "PDF417 Length Control" on page 197. 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. Characters can be set from 0001 to 2,710 characters (pad with zeroes) in increments of 01. Any value greater than 2,710 will be considered to be 2,710.

See"Set Length 1" on page 262 for detailed instructions on setting this feature.



Select PDF417 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star 0001 = Length 1 is 1 Character

PDF417 Set Length 2

This feature specifies one of the bar code lengths for "PDF417 Length Control" on page 197. 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. Characters can be set from 01 to 2,710 characters (pad with zeroes) in increments of 01. Any value greater than 2,710 will be considered to be 2,710.

See "Set Length 2" on page 263 for detailed instructions on setting this feature.



Select PDF417 Length 2 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.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in Appendix D, Keypad represent-

ing your desired character(s). End by scanning the

ENTER/EXIT bar code again.

CANCEL

★Length 2 is 2,710 Characters





MICRO PDF417

Micro PDF417 Enable / Disable

Enables/disables the ability of the reader to decode Micro PDF417 labels.





★ Micro PDF417 = Enable

Micro PDF417 Code 128 GS1-128 Emulation

Specifies which AIM ID to use for Micro PDF labels when doing Code 128 or GS1-128 emulation.

Emulation choices are:

- Micro PDF AIM ID and label type
- Code 128 / EAN128 AIM Id and label type.



★ Micro PDF417 Code 128 GS1-128 Emulation = Micro PDF AIM ID and label type



Micro PDF417 Code 128 GS1-128 Emulation = Code 128 / EAN128 AIM ID and label type



2D SYMBOLOGIES

Micro PDF417 Length Control

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

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

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



★ Micro PDF417 Length Control = Variable Length



Micro PDF417 Length Control = Fixed Length

Micro PDF417 Set Length 1

Specifies one of the bar code lengths for "Micro PDF417 Length Control" on page 200. 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. Characters can be set from 0001 to 0366 characters (pad with zeroes) in increments of 01. Any value greater than 0366 will be considered to be 0366.

See "Set Length 1" on page 262 for detailed instructions on setting this feature.



Select Micro PDF417 Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star 0001 = Length 1 is 1 Character


Micro PDF417 Set Length 2

This feature specifies one of the bar code lengths for "Micro PDF417 Length Control" on page 200. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length includes the bar code's data characters only. Characters can be set from 0001 to 0366 characters (pad with zeroes) in increments of 01. Any value greater than 0366 will be considered to be 0366.

See "Set Length 2" on page 263 for detailed instructions on setting this feature.



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.

Select Micro PDF417 Length 2 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.



CANCE

★Length 2 i s 0366 Characters



QR CODE

QR Code Enable / Disable

Enables/disables the ability of the reader to decode QR Code labels.





QR Code Length Control

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

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

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



★ QR Code Length Control = Variable Length



QR Code Length Control = Fixed Length



QR Code Set Length 1

This feature specifies one of the bar code lengths for "QR Code Length Control" on page 202. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Characters can be set from 0001 to 7,089 characters in increments of 0001 (pad with zeroes).

See "Set Length 1" on page 262 for detailed instructions on setting this feature.



Select QR Code Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



 \star 0001 = Length 1 is 1 Character

QR Code Set Length 2

This feature specifies one of the bar code lengths for "QR Code Length Control" on page 202. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Characters can be set from 0001 to 7,089 characters in increments of 0001 (pad with zeroes).

See "Set Length 2" on page 263 for detailed instructions on setting this feature.



Select QR Code Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



★Length 2 i s 7,089 Characters



MICRO QR CODE

Micro QR Code Enable / Disable

Enables/disables the ability of the reader to decode Micro QR Code labels.





Micro QR Code = Enable

Micro QR Code Length Control

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

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

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



★ Micro QR Code Length Control = Variable Length



Micro QR Code Length Control = Fixed Length



Micro QR Code Set Length 1

This feature specifies one of the bar code lengths for "Micro QR Code Length Control" on page 204. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Characters can be set from 0001 to 0035 characters in increments of 0001 (pad with zeroes).

See "Set Length 1" on page 262 for detailed instructions on setting this feature.



Select Micro QR Code Length 1 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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



 \star 0001 = Length 1 is 1 Character

Micro QR Code Set Length 2

again at the beginning.

This feature specifies one of the bar code lengths for "Micro QR Code Length Control" on page 204. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Characters can be set from 0001 to 0035 characters in increments of 0001 (pad with zeroes).

See "Set Length 2" on page 263 for detailed instructions on setting this feature.



Select Micro QR Code Length 2 Setting

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING 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.



★Length 2 i s 0035 Characters



UCC COMPOSITE

UCC Optional Composite Timer

Specifies the amount of time the system will wait for the stacked part of a UCC Composite label before transmitting the linear label without an add-on. The UCC Optional Composite Timer can be set within a range of 10 to 300 msec. A setting of 0 disables the timer.



UCC Optional Composite Timer = Timer Disabled



★ UCC Optional Composite Timer = 70 msec



UCC Optional Composite Timer = 100 msec



UCC Optional Composite Timer = 200 msec



UCC Optional Composite Timer = 300 msec



Postal Code Selection

Enables/disables the ability of the reader to decode labels of a specific postal symbology.

- Disable All Postal Codes
- Postnet
- Planet
- Royal Mail
- Kix

- Australia Post
- Japan Post
- IMB
- Sweden Post
- Portugal Post



★ Postal Code Selection = Disable All Postal Codes



Postal Code Selection = Enable Postnet



Postal Code Selection = Enable Planet



Postal Code Selection = Enable Royal Mail



Postal Code Selection = Enable Kix



Postal Code Selection = Enable Australia Post



Postal Code Selection = Enable Japan Post



ENTER/EXIT PROGRAMMING MODE

Postal Code Selection (continued)



Postal Code Selection = Enable IMB



Postal Code Selection = Enable Sweden Post



Postal Code Selection = Enable Portugal Post

Postnet BB Control

Controls the ability of the reader to decode B and B' fields of Postnet labels.



★ Postnet BB Control = Disable



Postnet BB Control = Enable



NOTES

CONFIGURATION OCR DECODING

The CODiScan HS7600 is equipped with an Optical Character Recognition feature.

This section describes how to configure the Datalogic bar code reader to enable OCR decoding.

The CODiScan HS7600 support the following OCR font types:

- OCR-A
- OCR-B
- MICR E13B
- US Currency Serial Number.

In most OCR applications a suitable usage of check digits and the addition of constraints on sub-strings types (e.g. digits-only or letter-only) reduces misdecoding probabilities.

The user can choose between a set of predefined templates (already optimized for decoding) and customizable free templates.

For free templates, as OCR decoding is less reliable than traditional barcode decoding, the reader provides tools to minimize misdecoded labels. As a result, particular care shall be dedicated to the setup of free custom templates to reduce incorrect output.

For more information on how to customize the user templates for your needs, please contact Datalogic Technical Support.

Use one of the following labels to enable one of the predefined templates for OCR decoding.



OCR Decoding Predefined Templates

The following selections are exclusive, enabling one template automatically disables the others.



★ OCR Predefined Template = Disable OCR Function



OCR Predefined Template = EU Identity Card OCR



OCR Predefined Template = IATA Passport OCR



OCR Predefined Template = Italian Post OCR Payment



OCR Predefined Template = Italian Bank Freccia Bank Payment form



OCR Predefined Template = Swiss Driving License OCR

CONFIGURATION | POWER MANAGEMENT

SECTION CONTENTS	
POWER SAVE starting on page 213	
Powerdown Timeout	
BATTERY PROFILES starting on page 214	
Battery Profiles	Battery Information

These parameters refer to Mobile units only.





POWER SAVE

Powerdown Timeout

The Powerdown Timeout feature sets the time for automatically switching the unit off when the imager has been idle.



Powerdown Timeout = Disable



Powerdown Timeout = 10 minutes



Powerdown Timeout = 20 minutes



★ Powerdown Timeout = 30 minutes



Powerdown Timeout = 60 minutes (1 hour)



Powerdown Timeout = 120 minutes (2 hours)



BATTERY PROFILES

Battery Profiles

CODiScan HS7600 provides the user the ability to select different usage profiles to better configure the reader with respect to specific needs. By default, the Maximum Performance profile is selected and provides high snappiness and max reading capability. The user can then decide to exploit specific features when others are considered less important, for instance: fast battery recharge instead of battery health, maximum reading performance instead of battery autonomy, etc.

The following Battery Profiles are described with associated benefits and limitations:



★ Battery Profile = Maximum Performance



Battery Profile = Maximum Battery Health



Battery Profile = Maximum Autonomy





Maximum Performance (default)

- Reader autonomy for heavy workload
- Max radio communication performances



Maximum Battery Health

- Battery capacity is preserved
- Reduced battery capacity by ~20%



Maximum Autonomy

- Max reader autonomy
- Vibro motor disabled
- Increased Sniff-time period (Bluetooth[®])

Battery Information

By using Datalogic Aladdin utility, additional battery data can be retrieved, i.e.:

- HH Serial Number
- Charge %
- Health %
- Full Charge Capacity
- Designed Capacity
- Nominal Capacity
- Remaining Capacity
- Charging Status
- Battery Voltage
- Battery Current

CONFIGURATION | WIRELESS FEATURES

SECTION CONTENTS WIRELESS BEEPER FEATURES starting on page 217 •Good Transmission Beep Disconnect Beep •Beeper Frequency •Leash Alarm Beep Duration •Beep Volume **CONFIGURATION UPDATES** starting on page 222 •Automatic Configuration Update Copy Configuration to Gateway Copy Configuration to Reader **BATCH FEATURES** starting on page 223 •Batch Mode • Erase Batch Memory Send Batch •RF Batch Mode Transmit Delay DIRECT RADIO AUTOLINK starting on page 225 •Direct Radio Autolink **RF ADDRESS STAMPING** starting on page 226 Source Radio Address Transmission •Source Radio Address Delimiter Character **BLUETOOTH-ONLY FEATURES** starting on page 227 •Bluetooth Discoverable Mode Timeout •Bluetooth Security Level •Wi-Fi Channels Exclusion •Bluetooth Friendly Name BLUETOOTH HID FEATURES starting on page 236 •Bluetooth HID Alt Mode Bluetooth HID Intercharacter Delay

COLATACO



WIRELESS BEEPER FEATURES

Several options are available to configure beeper behavior for wireless operation.

Good Transmission Beep

Enables/disables the Good Transmission Beep indication. When enabled, a beep occurs when a Label is correctly transmitted to the host.



Good Transmission Beep = Disable



★ Good Transmission Beep = Enable

Beeper Frequency

Adjusts radio-specific beep indications to sound at a low, medium or high frequency, selectable from the list below (controls the beeper's pitch/tone).



★ Beep Frequency = Low



Beep Frequency = Medium







Beep Duration

This feature controls the duration of radio-specific beep indications.



Beep Duration = 60 msec



★Beep Duration = 80 msec



Beep Duration = 100 msec



Beep Duration = 120 msec



Beep Duration = 140 msec



Beep Duration = 160 msec



Beep Duration = 180 msec



Beep Duration = 200 msec

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WIRELESS BEEPER FEATURES



Beep Volume

Selects the beeper volume (loudness) of radio-specific beep indications. There are three selectable volume levels.



Beep Volume = Low



Beep Volume = Medium



Disconnect Beep

Enables/disables the beep indication that a handheld has become disconnected from a host.



Disconnect Beep = Disable



★ Disconnect Beep = Enable



ENTER/EXIT PROGRAMMING MODE

Leash Alarm

This setting specifies the number of seconds to sound the Leash Mode beeps (three per second) when the handheld goes out of range. This is especially useful in instances where the reader might inadvertently have been placed in a bag or cart.

For this mode to be effective, the reader must be linked to the host. If the reader is asleep or disconnected from the host, there is no way for it to know where it is relative to the host because communication is not active between the devices.



★Leash Alarm = Disable



Leash Alarm = 1 Second





Leash Alarm = 3 Seconds





Leash Alarm (continued)



Leash Alarm = 4 Seconds



Leash Alarm = 5 Seconds



Leash Alarm = 10 Seconds



Leash Alarm = 25 Seconds



Leash Alarm = 30 Seconds



CONFIGURATION UPDATES

Automatic Configuration Update

When this feature is enabled, a reader and its linked Gateway can automatically ensure they stay in sync with regard to application hardware and/or configuration. See page 261 for more information on this feature.



Automatic Configuration Update = Disable



★ Automatic Configuration Update = Enable

Copy Configuration to Reader

Scan the following label to copy the current host configuration to the reader. Use this method when the Auto Configuration Update feature is disabled and you want a one-time configuration update to be performed on the reader.



NOTE: Do not scan an ENTER/EXIT PROGRAMMING MODE label in conjunction with this bar code.



Copy Configuration to Reader

Copy Configuration to Gateway

Scan the following label to copy the current reader configuration to the host. Use this method when the Auto Configuration Update feature is disabled and you want a one-time configuration update to be performed on the host.



NOTE: Do not scan an ENTER/EXIT PROGRAMMING MODE label in conjunction with this bar code.



Copy Configuration to Gateway





BATCH FEATURES

Batch Mode

This option specifies whether to store labels in the handheld while disconnected from the host. Options are as follows:

- Disabled The handheld will not store/batch labels.
- Automatic The handheld will store labels to RAM when the handheld goes out of range and is disconnected from the remote device.
- Manual The handheld will always store labels to Flash memory. The user must manually send the stored labels to the remote device using a special "batch send" label.



★ Batch Mode = Disable



Batch Mode = Automatic



Batch Mode = Manual

Send Batch

When the reader is configured in Manual Batch Mode, use the following bar code to initiate sending of labels stored in batch memory.



NOTE: Do not scan an ENTER/EXIT PROGRAMMING MODE label in conjunction with this bar code.



Send Batch



ENTER/EXIT PROGRAMMING MODE

Erase Batch Memory

When the reader is configured in Manual Batch Mode, use the following bar code to erase any labels stored in batch memory.



NOTE: Do not scan an ENTER/EXIT PROGRAMMING MODE label in conjunction with this bar code.



Erase Batch Memory

RF Batch Mode Transmit Delay

Specifies the delay in 10 msec increments between transmitting labels stored in batch memory.



***** RF Batch Mode Transmit Delay = No Delay



RF Batch Mode Transmit Delay = 50 msec



RF Batch Mode Transmit Delay =100 msec



RF Batch Mode Transmit Delay = 0.5 seconds



RF Batch Mode Transmit Delay = 1 second



RF Batch Mode Transmit Delay = 2.5 seconds





DIRECT RADIO AUTOLINK

Direct Radio Autolink

This feature enables/disables the ability to link a wireless handheld to a host without scanning the Unlink label first.



★ Direct Radio Link = Unlink Label Required



Direct Radio Link = Automatic Unlinking



RF ADDRESS STAMPING

These features allow configuration of source radio data inclusion.

Source Radio Address Transmission

Enables/disables the ability of source radio address information to be transmitted to the host and, if so, at what position with respect to the label data. See page 261 in "References" for detailed information and examples for setting this feature.



NOTE: When included as a prefix, the source-radio ID is displayed after all label formatting has been applied. The 6 byte hex address is sent as 12 ASCII characters, i.e., an address of 00 06 66 00 1A ED will be sent as (shown in hex): 30 30 30 36 36 36 30 30 31 41 45 44



★ Source Radio Address Transmission = Do Not Include



Source Radio Address Transmission = Prefix

Source Radio Address Delimiter Character

This option specifies the delimiter character to be placed between the label data and radio address when address stamping is enabled.



NOTE: This feature only applies if "Source Radio Address Transmission" on page 226 **is enabled.**

ENTER/EXIT bar code again.



Set Source Radio Address Delimiter Character

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



To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by the digits from the Alphanumeric characters in Appendix D, Keypad represent-

ing your desired character(s). End by scanning the

★ Delimiter Character = 00 (no delimiter character)



BLUETOOTH-ONLY FEATURES



NOTE: Changing the configuration parameters described in this section may cause a temporary loss of the Bluetooth connection between the Reader and the remote device.

Bluetooth Security Level



NOTE: This parameter applies when pairing the Reader with a third party Bluetooth device. It has no effect when linking the Reader to a host.

Set this parameter according to the security requirements of the application scenario when the reader will be employed.

- Select Level 1 lowest when the main application requirement is to avoid any user interaction (e.g. Passkey or PIN entry) during the pairing process. When using this setting, the resulting Bluetooth connection will be encrypted but not authenticated.
- Select Level 2 when encryption is required, authentication is not required, and minimal user interaction is desired. In this case the Host may ask the user to enter a 6-digit Bluetooth Passkey during the pairing process.
- Select Level 3 highest when a secure connection to the Host is desired, with both encryption and authentication. In this case the Host will ask the user to enter a 6-digit Bluetooth Passkey or a Bluetooth PIN during the pairing process.



NOTE: When device authentication takes place during the pairing process, by means of the passkey or PIN entry, the resulting Bluetooth link is protected from Man-In-The-Middle (MITM) malicious attacks.



NOTE: The actual behaviors of the Reader and of the Host system during the pairing process depend on the security settings of both devices involved, and on the input and output means available on each device to interface with the user.

This means that:

- the user may be required to enter a BT Passkey during the pairing process even if the reader's BT Security Level is set to "Encryption required, authentication not required". This depends on the configuration of the Host system.
- when the reader's BT Security Level is set to "Encryption and authentication required", it may not be possible to connect to a Host system if the latter cannot support the Passkey Entry authentication procedure. In this case, try to set the reader's BT Security Level to "Encryption required, authentication not required" to establish the connection.



NOTE: Changing the BT Security Level setting will unlink the Reader from the remote device.





★ BT Security Level = Level 1 - lowest



BT Security Level = Level 2



BT Security Level = Level 3 - highest



Wi-Fi Channels Exclusion

In case the Reader operates in the same environment as 2.4 GHz Wi-Fi equipment, set this parameter to configure the strategy that the Reader should employ to minimize the interferences between Bluetooth and Wi-Fi wireless technologies.

- If the specific 802.11 standard or the frequency channels used by the Wi-Fi equipment are unknown, select Automatic to let the Reader use the Adaptive Frequency Hopping (AFH) feature of Bluetooth technology. With this setting, the Reader and the remote Bluetooth device may automatically detect the frequency channels affected by a significant level of interference, and avoid using these channels during Bluetooth data exchange.
- If the specific 802.11 standard and the frequency channels used by the Wi-Fi equipment are known, select the corresponding combination from the list of programming labels below or use the Datalogic Aladdin tool. With this setting, the Reader and the remote Bluetooth device avoid using the Bluetooth frequency channels that overlap with the already occupied Wi-Fi channels.

For example, if the co-located 2.4 GHz Wi-Fi equipment operates according to the 802.11g standard on channels n. 6 and n. 11, read the 802.11b/g ch.6 and 11 programming label.



NOTE: The programming labels in the list below cover the most popular combinations of 802.11 standards and 2.4 GHz Wi-Fi channels. If the configuration command corresponding to your specific scenario is not listed, please contact Datalogic Technical Support for further configuration options.



★ WiFi Ch. Exclusion = Automatic



WiFi Ch. Exclusion = 802.11b_g ch.1



WiFi Ch. Exclusion = 802.11b_g ch.2



WiFi Ch. Exclusion = 802.11b_g ch.3



WIRELESS FEATURES

Wi-Fi Channels Exclusion (continued)



WiFi Ch. Exclusion = 802.11b_g ch.4



WiFi Ch. Exclusion = 802.11b_g ch.5

WiFi Ch. Exclusion = 802.11b_g ch.6

WiFi Ch. Exclusion = 802.11b_g ch.7





WiFi Ch. Exclusion = 802.11b_g ch.8



WiFi Ch. Exclusion = 802.11b_g ch.9



WiFi Ch. Exclusion = 802.11b_g ch.10

WiFi Ch. Exclusion = 802.11b_g ch.11









Wi-Fi Channels Exclusion (continued)



WiFi Ch. Exclusion = 802.11b_g ch.12



WiFi Ch. Exclusion = 802.11b_g ch.13



WiFi Ch. Exclusion = 802.11b_g ch.14

WiFi Ch. Exclusion = 802.11b_g ch.1 and 6





WiFi Ch. Exclusion = 802.11b_g ch.1 and 11



WiFi Ch. Exclusion = 802.11b_g ch.6 and 11



WiFi Ch. Exclusion = 802.11b_g ch.1 and 6 and 11



WiFi Ch. Exclusion = $802.11b_g$ ch.2 and 7



ENTER/EXIT PROGRAMMING MODE

Wi-Fi Channels Exclusion (continued)



WiFi Ch. Exclusion = 802.11b_g ch.2 and 12



WiFi Ch. Exclusion = 802.11b_g ch.7 and 12



WiFi Ch. Exclusion = 802.11b_g ch.2 and 7 and 12

WiFi Ch. Exclusion = 802.11b_g ch.3 and 8





WiFi Ch. Exclusion = 802.11b_g ch.3 and 13

WiFi Ch. Exclusion = 802.11b_g ch.8 and 13



WiFi Ch. Exclusion = 802.11b_g ch.3 and 8 and 13

WiFi Ch. Exclusion = 802.11b_g ch.4 and 9









Wi-Fi Channels Exclusion (continued)



WiFi Ch. Exclusion = 802.11b_g ch.4 and 14



WiFi Ch. Exclusion = 802.11b_g ch.9 and 14



WiFi Ch. Exclusion = 802.11b_g ch.4 and 9 and 14

WiFi Ch. Exclusion = 802.11b_g ch.5 and 10





WiFi Ch. Exclusion = 802.11n ch.3



WiFi Ch. Exclusion = 802.11n ch.11



ENTER/EXIT PROGRAMMING MODE

Bluetooth Discoverable Mode Timeout

It defines how long the scanner is discoverable after reading the "Link HID" or "Link SPP" label.



Discoverable Mode Timeout = 1 minute



Discoverable Mode Timeout = 2 minutes



Discoverable Mode Timeout = 3 minutes



Discoverable Mode Timeout = 4 minutes



Discoverable Mode Timeout = 5 minutes



Bluetooth Friendly Name

You can set a meaningful name for HS7600 that will appear in the application during device discovery.

To set a new Bluetooth Friendly Name, scan the barcode below and follow the instructions.



Set Bluetooth Friendly Name

To configure this feature, scan the ENTER/EXIT PRO-GRAMMING MODE bar code above, then the bar code at left followed by a maximum 64 digits from the Alphanumeric characters in Appendix D, Keypad. The digits must be the hexadecimal ASCII representation of the desired characters. If less than the expected string of 32 characters are selected, scan the ENTER/EXIT bar code to terminate the string.

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

★ CODISCAN HS7600 [SERIAL_NUMBER_SCANNER]



ENTER/EXIT PROGRAMMING MODE

BLUETOOTH HID FEATURES

Before connecting the Reader to a Bluetooth HID host device, the keyboard emulation used for label transmission can be configured using the parameters described in this section, plus the following parameters:

- "Setting Country Mode" on page 39
- "Encoding Type" on page 53
- "ALT Output Type" on page 60
- "Keyboard Numeric Keypad" on page 61
- "Keyboard Send Control Characters" on page 61

Bluetooth HID Alt Mode

Enable/Disable the ability to correctly transmit a label to the host regardless of the Bluetooth HID Country Mode selected, when Bluetooth HID Profile is configured. Read the configuration command label below for the HID Alt Mode feature.



 \star HID Alt Mode = OFF




Bluetooth HID 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 239 for more detailed programming instructions.



Bluetooth HID Intercharacter Delay = No Delay

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.



Select Bluetooth HID Intercharacter Delay 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.



 \star 00 = No Intercharacter Delay

CHAPTER 4 REFERENCES

This section contains explanations and examples of selected bar code features. See "Configuration with Bar Codes" on page 25 for the actual bar code labels.

SECTION	SECTION CONTENTS					
USB COM PARAMETERS on page 2	39					
 Intercharacter Delay ACK NAK Options ACK Character NAK Character 	 ACK NAK Timeout Value ACK NAK Retry Count Disable Character Enable Character 					
KEYBOARD INTERFACE on page 246						
Intercharacter Delay	Intercode Delay					
DATA FORMAT on page 248						
Data EditingGlobal Prefix/SuffixGlobal AIM ID	Label IDCharacter Conversion					
SCANNING FEATURES on page 256						
Scan ModeScanning Active Time	Flash On TimeFlash Off Time					
LED AND BEEPER INDICATORS on	page 260					
Good Read LED Duration						
RF FEATURES on page 261						
RF Address Stamping						
SYMBOLOGIES on page 262 • Set Length						

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USB COM PARAMETERS

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.

To set the delay:

- 1. Determine the desired setting in milliseconds.
- 2. Divide the desired setting by 10 (setting is in 10ms increments). Pad the result with leading zeroes to yield two digits. For example: 0 = 00, 5 = 05, 20 = 20, etc.
- Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Go to page 29 and scan the bar code: SELECT INTERCHARACTER DELAY SETTING.
- 5. Scan the appropriate two digits from the keypad in Appendix D, that represent the duration which was determined in the steps above. You will hear a two-beep indication after the last character.



NOTE: 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.

6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit.

This completes the procedure. See the following table for examples of how to set this feature.

Table 4 - Intercharacter Delay Setting Examples

STEP	ACTION	EXAMPLES						
1	Desired Setting	50ms	150ms	600ms	850ms			
2	Divide by 10 (pad with leading zeroes to yield two-digits)	05	85					
3	Scan ENTER/EXIT PROGRAMMING MODE							
4	Scan SELECT INTERCHARACTER D	ELAY SETT	ING					
5	Scan two characters from Appendix D	'0' and '5'	'1' and 5' '6' and '0'		8' and '5'			
6	Scan ENTER/EXIT PROGRAMMING	MODE						

ACK NAK Options

This enables/disables the ability of the reader to support the USB COM ACK/NAK protocol. When configured, the reader 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 reader expects an ACK/NAK response from the host when a label is sent
- Enable for host-command acknowledge The reader will respond with ACK/NAK when the host sends a command
- 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.



NOTE: Setting to previously defined characters such as XON, XOFF, or host commands conflicts with normal operation of these characters. 8-bit data is not recognized when the option Data Bits page 32 has been set as 7 Data Bits.

- 1. Determine the desired character or value.
- 2. Use the ASCII Chart on page 308 to find the hex equivalent for the desired character/value.
- 3. Scan ENTER/EXIT PROGRAMMING MODE to enter Programming Mode.
- 4. Scan the bar code: SELECT ACK CHARACTER SETTING.
- 5. Scan the appropriate two alphanumeric characters from the keypad in Appendix D, that represent the desired character/value determined above. The second character will cause a two-beep indication.
- 6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit.

See the table below for examples of how to set this feature.

Table 5 - ACK Character Setting Examples

STEP	ACTION	EXAMPLES						
1	Desired Character/Value	ACK \$ @ >						
2	Hex equivalent from ASCII Chart on page 308	0x06	0x24	0x40	0x3E			
3	Scan ENTER/EXIT PROGRAMMING MODE							
4	Scan SELECT ACK CHARACTER SE	TTING						
5	Scan two characters from Appendix D	'0' and '6'	'2' and '4'	'4' and '0'	'3' and 'E'			
6	Scan ENTER/EXIT PROGRAMMING	MODE	<u>.</u>					

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.



NOTE: Setting to previously defined characters such as XON, XOFF, or host commands conflicts with normal operation of these characters. 8-bit data is not recognized when the option Data Bits on page 32 has been set as 7 Data Bits.

To set this feature:

- 1. Determine the desired character or value.
- 2. Use the ASCII Chart on page 308 to find the hex equivalent for the desired character/value.
- 3. Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Scan the bar code: SELECT NAK CHARACTER SETTING.
- 5. Scan the appropriate two alpha-numeric characters from the keypad in Appendix D, that represent the desired character/value determined above. The second character will cause a two-beep indication.
- 6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode.

This completes the procedure. See the table below for examples of how to set this feature.

Table 6 - NAK Character Setting Examples

STEP	ACTION	EXAMPLES							
1	Desired Character/Value	NAK \$ @ >							
2	Hex equivalent	0x15 0x24 0x40 0x3E							
3	Scan ENTER/EXIT PROGRAMMING MODE								
4	Scan SELECT NAK CHARACTER SE	TTING							
5	Scan two characters from Appendix D	'1' and '5'	d '5' '2' and '4' '4' and '0'		'3' and 'E'				
6	Scan ENTER/EXIT PROGRAMMING	MODE							

ACK NAK Timeout Value

This option specifies the amount of time the reader 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.

To set this value:

- 1. Determine the desired setting in milliseconds.
- 2. Divide the desired setting by 200 (setting is in 200ms increments). Pad the result with leading zeroes to yield two digits. For example: 0 = 00, 5 = 05, 20 = 20, etc.
- 3. Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Scan the bar code: SELECT ACK NAK TIMEOUT VALUE SETTING.
- 5. Scan the appropriate two digits from the keypad in Appendix D, that represent the duration which was determined in the steps above. You will hear a two-beep indication after the last character.



NOTE: 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.

6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode.

This completes the procedure. See the table below for examples of how to set this feature.

STEP	ACTION	EXAMPLES						
1	Desired Setting	200ms	200ms 1,000ms (1 sec.) 5200ms (5.		15,000ms (15 sec.)			
2	Divide by 200	01	05	26	75			
3	Scan ENTER/EXIT PROGRAMMING MODE							
4	Scan SELECT ACK NAK TIN		JE SETTING					
5	Scan two characters from Appendix D	'0' and '1'	'0' and '5' '2' and '6'		'7' and '5'			
6	Scan ENTER/EXIT PROGRA	MMING MO	DE					

Table 7 - ACK NAK Timeout Value Setting Examples

ACK NAK Retry Count

This feature specifies the number of times the reader 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.

To set this feature:

- 1. Determine the desired setting.
- 2. Pad the number with leading zeroes to yield three digits. For example: 0 = 000, 5 = 005, 20 = 020, etc.
- 3. Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Scan the bar code: SELECT ACK NAK RETRY COUNT SETTING.
- 5. Scan the appropriate three digits from the keypad in Appendix D, that represent the number which was determined in the steps above. You will hear a two-beep indication after the last character.



NOTE: 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.

6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode.

This completes the procedure. See the table below for examples of how to set this feature.

STEP	ACTION	EXAMPLES						
1	Desired Setting	Disable Retry Count	Disable Retry Count 3 Retries 54 Retri		Unlimited Retries			
2	Pad with leading zero(es)	000	003	054	255			
3	Scan ENTER/EXIT PROGRAMMING MODE							
4	Scan SELECT ACK NAK RE	TRY COUNT SET	TING					
5	Scan three characters from Appendix D	'0', '0' and '0'	'0', '0' and '3'	'0', '5' and '4'	'2', '5' and '5'			
6	Scan ENTER/EXIT PROGRA	MMING MODE						

Table 8 – ACK NAK Retry Count Setting Examples

Disable Character

Specifies the value of the USB COM host command used to disable the reader.

ASCII characters or any hex value from 0 to 0xFF can be selected.



NOTE: Setting to previously defined characters such as XON, XOFF, or host commands conflicts with normal operation of these characters. 8-bit data is not recognized when the option "Data Bits" on page 24 has been set as 7 Data Bits.

To set the value:

- 1. Determine the desired character or value. A setting of 0xFF indicates the Disable Character is not used (not available).
- 2. Use the ASCII Chart on page 308 to find the hex equivalent for the desired character/value.
- 3. Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Scan the bar code: SELECT DISABLE CHARACTER SETTING on page 35.
- 5. Scan the appropriate two alphanumeric characters from the keypad in Appendix D, that represent the desired character/value determined above. The second character will cause a two-beep indication.
- 6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode.

This completes the procedure. See the table below for examples of how to set this feature.

STEP	ACTION	EXAMPLES					
1	Desired character/value	'd'	'}'	'D'	Disable Com- mand Not Used		
2	Hex equivalent from ASCII Chart on page 308	0x64	0x7D 0x44		0xFF		
3	Scan ENTER/EXIT PROGRAMMING MODE						
4	Scan SELECT DISABLE CHARACT	ER VALUE	SETTING				
5	Scan three characters from Appendix D	'6' and '4'	'6' and '4' '7' and 'D' '4' and '4'		'F' and 'F'		
6	Scan ENTER/EXIT PROGRAMMING MODE						

Table 9 - Disable Character Setting Examples

Enable Character

Specifies the value of the USB COM host command used to enable the reader.

ASCII characters or any hex value from 0 to 0xFF can be selected.



NOTE: Setting to previously defined characters such as XON, XOFF, or host commands conflicts with normal operation of these characters. 8-bit data is not recognized when the option "Data Bits" on page 24 has been set as 7 Data Bits.

To set the value:

- 1. Determine the desired character or value. A setting of 0xFF indicates the Enable Character is not used (not available).
- 2. Use the ASCII Chart in Appendix F to find the hex equivalent for the desired character/value.
- 3. Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Scan the bar code: SELECT ENABLE CHARACTER SETTING on page 35.
- 5. Scan the appropriate two alphanumeric characters from the keypad in Appendix D, that represent the desired character/value determined above. The second character will cause a two-beep indication.
- 6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode.

This completes the procedure. See the table below for examples of how to set this feature.

Table 10 - Enable Character Setting Examples

STEP	ACTION	EXAMPLES				
1	Desired character/value	'e'	'}'	'E'	Enable Command Not Used	
2	Hex equivalent from ASCII Chart on page 308	0x65	0x7D	0x45	0xFF	
3	Scan ENTER/EXIT PROGRAMMIN	G MODE				
4	Scan SELECT ENABLE CHARACT	ER VALUE S	ETTING			
5	Scan two characters from Appendix D	'6' and '5'	'7' and 'D'	'4' and '5'	'F' and 'F'	
6	Scan ENTER/EXIT PROGRAMMING MODE					

KEYBOARD INTERFACE

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.

To set the delay:

- 1. Determine the desired setting in milliseconds.
- 2. Divide the desired setting by 10 (setting is in 10ms increments). Pad the result with leading zeroes to yield two digits. For example: 0 = 00, 5 = 05, 20 = 20, etc.
- 3. Go to page 62 and scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Scan the bar code: SELECT INTERCHARACTER DELAY SETTING on page 62.
- 5. Scan the appropriate two digits from the keypad in Appendix D, that represent the duration which was determined in the steps above. You will hear a two-beep indication after the last character.



NOTE: 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.

6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode.

This completes the procedure. See the table below for examples of how to set this feature.

STEP	ACTION	EXAMPLES					
1	Desired Setting	50ms	150ms	600ms	850ms		
2	Divide by 10 (and pad with lead- ing zeroes to yield two-digits)	05	15	60	85		
3	Scan ENTER/EXIT PROGRAMMING MODE						
4	Scan SELECT INTERCHARACTER	DELAY SETTI	NG				
5	Scan two characters from Appendix D	'0' and '5'	'1' and '5'	'6' and '0'	'8' and '5'		
6	Scan ENTER/EXIT PROGRAMMING MODE						

Table 11 - Intercharacter Delay Setting Examples

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.

Follow these instructions to set this feature:

- 1. Determine the desired setting.
- 2. Pad the number with leading zeroes to yield two digits. For example: 0 = 00, 5 = 05, 20 = 20, etc
- 3. Go to page 62 and scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Scan the bar code: SELECT INTERCODE DELAY SETTING on page 62.
- 5. Scan the appropriate two digits from the keypad in Appendix D, that represent the duration which was determined in the steps above. You will hear a two-beep indication after the last character.



NOTE: 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.

6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode. This completes the procedure. See the table below for examples of how to set this feature.

STEP	ACTION	EXAMPLES						
1	Desired Setting	No Delay	5 seconds	60 seconds	99 seconds			
2	Pad with leading zero(es) 00 05 60 99							
3	Scan ENTER/EXIT PROGRAMMING MODE							
4	Scan SELECT INTERCODE DELAY	SETTING						
5	Scan two characters from Appendix D	'0' and '0'	'0' and '5'	'6' and '0'	'9' and '9'			
6	Scan ENTER/EXIT PROGRAMMING MODE							

Table 12 - Intercode Delay Setting Examples

DATA FORMAT

Data Editing

When a bar code is scanned, additional information can be sent to the host computer along with the bar code data. This combination of bar code data and supplementary user-defined data is called a "message string." The Data Editing features can be used to build specific user-defined data into a message string.

There are several types of selectable data characters that can be sent before and after scanned data. You can specify if they should be sent with all symbologies, or only with specific symbologies. The following shows the available elements you can add to a message string:



Figure 3 - Breakdown of a Message String



NOTE: Additional advanced editing is available. See the Advanced formatting features in the Datalogic Aladdin configuration software, or contact "Technical Support" on page xiv for more information.

Please Keep In Mind...

- Modifying a message string is not a mandatory requirement. Data editing is a sophisticated feature allowing highly customizable output for advanced users. Factory default settings for data editing is typically set to NONE.
- A prefix or suffix may be applied only to a specified symbology (reference 1D Symbologies, starting on page 97) or across all symbologies (set via the Global features in Configuration with Bar Codes, starting on page 25).
- You can add any character from the ASCII Chart on page 308 (from 00-FF) on the inside back cover of this manual as a prefix, suffix or Label ID.
- Enter prefixes and suffixes in the order in which you want them to appear on the output.

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) as indicated.

Figure 4 Prefix and Suffix Positions



Example: Setting a Prefix

In this example, we'll set a prefix for all symbologies.

- Determine which ASCII character(s) are to be added to scanned bar code data. In this example, we'll add a dollar sign ('\$') as a prefix.
- 2. Scan the ENTER/EXIT PROGRAMMING MODE bar code, then scan the SET GLOBAL PREFIX bar code.
- Reference the ASCII Chart on page 308 in Appendix F to find the hex value assigned to the desired character. The corresponding hex number for the '\$' character is 24. To enter this selection code, scan the '2' and '4' bar codes from Appendix D.



NOTE: 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. If less than the expected string of 20 characters are selected, scan the ENTER/EXIT bar code to terminate the string.
- 5. Scan the ENTER/EXIT bar code once again to exit Programming Mode.

The resulting message string would appear as follows:

Scanned bar code data: 12345

Resulting message string output: \$12345

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. AIM label identifiers consist of three characters as follows:

- A close brace character (ASCII ']'), followed by...
- A code character (see the table below), followed by...
- A modifier character (the modifier character is symbol dependent).

SYMBOLOGY	CHAR	SYMBOLOGY	CHAR
UPC/EAN	E ^a	Code 128/GS1-128	С
Code 39 and Code 32	А	DataBar Omnidirectional, DataBar Expanded	е
Codabar	F	Standard 2 of 5	S
Interleaved 2 of 5	I	ISBN	Xp
Code 93	G	Code 11	Н

a. UPC-A and UPC-E labels are converted to EAN 13 when adding AIM IDs.

b. ISBN (X with a 0 modifier character)

Figure 5 AIM ID



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 or individually per symbology (see "Label ID: Set Individually Per Symbology" on page 71). If you wish to program the reader to always include an industry standard label identifier for ALL symbology types, see "Global AIM ID" on page 69.

Label ID: Pre-loaded Sets

The following table lists the pre-loaded label ID sets for the USA and Europe.

Tal	ole í	13 -	Label	ID	Pre-	load	ed	Sets
-----	-------	------	-------	----	------	------	----	------

SYMBOLOGY	USA LAB	EL ID SET	EU LABEL ID SET		
	ASCII character	Hex value	ASCII character	Hexadecimal value	
ABC Codabar	S	530000	S	530000	
CODABAR	%	250000	R	520000	
Code 39 CIP HR	Y	590000	Y	590000	
Code 93	&	260000	U	550000	
Code 11	CE	434500	b	620000	
Code 128	#	230000	Т	540000	
Code 32	А	410000	Х	580000	
Code 39	*	2A0000	V	560000	
Datalogic 2of5	S	730000	S	730000	
EAN13	F	460000	В	420000	
EAN13 P2	F	460000	L	4C0000	
EAN13 P5	F	460000	М	4D0000	
EAN8	FF	464600	А	410000	
EAN8 P2	FF	464600	J	4A0000	
EAN8 P5	FF	464600	K	4B0000	
FOLLETT 20F5	0	4F0000	0	4F0000	
GS1 DATABAR EXPANDED	RX	525800	t	740000	
GS1 DATABAR LIMITED	RL	524C00	V	760000	
GS1 DATABAR OMNIDIRECTIONAL	R4	523400	u	750000	
GS1-128		000000	k	6B0000	
I20F5	i	690000	Ν	4E0000	
IATA	IA	494100	۵	260000	
Industrial 2 of 5	W	570000	W	570000	
Interleaved 2 of 5	е	650000	е	650000	
ISBN	l	490000	0	400000	
ISBT128	f	660000	f	660000	

SYMBOLOGY	USA LABEL ID SET		EU LABE	L ID SET
ISSN	n	6E0000	n	6E0000
MSI	a	400000	Z	5A0000
S25	S	730000	Р	500000
UPCA	А	410000	С	430000
UPCA P2	А	410000	F	460000
UPCA P5	А	410000	G	470000
UPCE	E	450000	D	440000
UPCE P2	E	450000	Н	480000
UPCE P5	E	450000	I	490000
OCR-A	0	6F0000	\$o	246F00
OCR-B	0	6F0000	\$p	247000
MICR	0	6F0000	\$m	246D00

Label ID: Set Individually Per Symbology

To configure a Label ID individually for a single symbology:

- 1. Scan the ENTER/EXIT bar code.
- Select Label ID position as either BEFORE (Enable as Prefix) or AFTER (Enable as suffix) by scanning the appropriate bar code in the section "Label ID Control" on page 71. Reference Figure 6 for Label ID positioning options if multiple identification features are enabled.
- 3. Scan a bar code to select the symbology for which you wish to configure a custom Label ID from the section "Label ID Symbology Selection" on page 72.
- 4. Determine the desired character(s) (you may choose up to three) which will represent the Label ID for the selected symbology.
- 5. Turn to the ASCII Chart on page 308 on the inside back cover of this manual and find the equivalent hex digits associated with your choice of Label ID. For example, if you wish to select an equal sign (=) as a Label ID, the chart indicates its associated hex characters as 3D. Turn to Keypad, in Appendix D, and scan the bar codes representing the hex characters determined. For the example given, the characters '3' and 'D' would be scanned. More examples of Label ID settings are provided in Table 14 on page 254.



NOTE: 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.

- 6. Scan the ENTER/EXIT bar code to exit Label ID entry.
- 7. Scan the ENTER/EXIT bar code once again to exit Programming Mode.

This completes the steps to configure a Label ID for a given symbology.

Figure 6 Label ID Position Options



Label ID: Set Individually Per Symbology — continued Table 14 Label ID Examples

STEP	ACTION	EXAMPLES			
1	Scan the ENTER/EXIT bar code	(R	eader enters Pr	ogramming Mode	e)
2	Determine placement of the Label ID characters BEFORE or AFTER with regard to scanned data using Label ID Control, starting on page 71	Enable as Prefix	Enable as Suffix	Enable as Prefix	Enable as Suffix
3	Scan the bar code selecting the symbology type you wish to designate label ID charac- ters for using Label ID Sym- bology Selection, starting on page 72	GS1 DataBar Omnidirectional	Code 39	Interleaved 2 of 5	Code 32
4	Custom Label ID example (desired characters):	DB*	= C 3	+	РН
5	Find hex equivalents from the ASCII table (inside back cover), then scan in these digits/char- acters using the bar codes in the section: Keypad, starting on page 295. f you make a mistake before the last char- acter, scan the CANCEL bar code to abort and not save the entry string. You can then start again at the beginning.	44 42 2A	3D 43 33	2В	50 48
6	Scan the ENTER/EXIT bar code	(Reader exits Label ID entry)			
7	Scan the ENTER/EXIT bar code once again	(Reader exits Programming Mode)			
Result:		DB*[bar code data]	[bar code data]=C3	+[bar code data]	[bar code data]PH



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.

For example, if you have the character conversion configuration item set to the following: 41423132FFFFFFFF

The first pair is 4142 or AB (41 hex is an ASCII capital A, 42 hex is an ASCII capital B) and the second pair is 3132 or 12 (31 hex is an ASCII 1, 32 is an ASCII 2). The other two pairs are FFFF and FFFF.

With the label, AB12BA21, it would look as follows after the character

conversion: BB22BB22.

The A characters were converted to B characters and the 1 characters were converted to 2 characters. Nothing is done with the last two character pairs, since they are all FF.

To set Character Conversion:

- 1. Scan the ENTER/EXIT bar code.
- 2. Scan the bar code for "Character Conversion" on page 68
- 3. Determine the desired string. Sixteen positions must be determined as in the above example. Next, turn to the ASCII Chart on page 308 on the inside back cover of this manual and find the equivalent hex digits needed to fulfill the string.
- 4. Turn to Appendix D, Keypad and scan the bar codes representing the hex characters determined in the previous step.
- 5. Scan the ENTER/EXIT bar code to exit Programming Mode.



NOTE: If less than the expected string of 16 characters are selected, scan the ENTER/EXIT bar code twice to accept the selections and exit Programming Mode.

SCANNING FEATURES

Scan Mode

Selects the scan operating mode for the reader. Selections are:

Trigger Single: When the trigger is pulled, scanning is activated until one of the following occurs:

- Object Detection has elapsed
- a label has been read
- the trigger is released

This mode is associated with typical handheld reader operation: when the trigger is pulled, scanning starts and the product scans until the trigger is released, or a label is read, or the maximum Object Detection has elapsed.

Trigger Hold Multiple: When the trigger is pulled, scanning starts and the product scans until the trigger is released or Object Detection has elapsed. Reading a label does not disable scanning. Double Read Timeout prevents undesired multiple reads of the same label while in this mode.

Trigger Pulse Multiple: When the trigger is pulled, continuous scanning is activated until Stand Mode/Object Detection has elapsed or the trigger has been released and pulled again. Double Read Timeout prevents undesired multiple reads of the same label while in this mode.

Flashing: The reader flashes¹ on and off regardless of the trigger status. Flash rate is controlled by Flash On Time and Flash Off Time. When Flash is ON the reader reads continuously. When Flash is OFF scanning is deactivated.

Object Detection: No trigger pull is required to read a bar code. Scanning turns on automatically when an item is placed in reader's field of view. While in a watch state, the reader illumination LED goes from dim to maximum bright.

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.

Follow these instructions to set this feature:

- 1. Determine the desired setting.
- 2. Pad the result with leading zeroes to yield three digits. For example: 0 = 000, 5 = 005, 20 = 020, etc.
- 3. Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Scan the bar code: SELECT SCANNING ACTIVE TIME SETTING on page 79.
- 5. Scan the appropriate three digits from the keypad in Appendix D, that represent the duration which was determined in the steps above. You will hear a two-beep indication after the last character.
 - 1. Controlled by Flash On Time.



NOTE: 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.

6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode. This completes the procedure. See the table below for examples of how to set this feature.

Table 15 Scanning Active Time Setting Examples

STEP	ACTION		EXAM	IPLES	
1	Desired Setting	1 Second	90 Sec. (1.5 min.)	180 Sec. (3 min.)	255 Seconds (4.25 min.)
2	Pad leading zero(es)	001	090	180	255
3	Scan ENTER/EXIT PROGRAMMING MODE				
4	Scan SELECT SCANNING ACTIVE TIME SETTING				
5	Scan three characters from Appendix D	'0', '0' and '1'	'0', '9' and '0'	'1', '8' and '0'	'2', '5' and '5'
6	Scan ENTER/EXIT PROGRAMMIN	G MODE			

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.

Follow these instructions to set this feature.

- 1. Determine the desired setting in milliseconds.
- 2. Divide the desired setting by 100 (setting is in 100ms increments). Pad the result with leading zeroes to yield two digits. For example: 0 = 00, 5 = 05, 20 = 20, etc.
- 3. Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Scan the bar code: SELECT FLASH ON TIME SETTING on page 79.
- 5. Scan the appropriate two digits from the keypad in Appendix D, that represent the duration which was determined in the steps above. You will hear a two-beep indication after the last character.



NOTE: 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.

6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode.

This completes the procedure. See the following table for examples of how to set this feature.

STEP	ACTION	EXAMPLES			
1	Desired Setting	500ms	1,000ms (1 sec.)	5200ms (5.2 sec.)	9,900ms (9.9 sec.)
2	Divide by 100 (and pad with leading zeroes to yield two digits)	05	10	52	99
3	Scan ENTER/EXIT PROGRAMMING MODE				
4	Scan SELECT FLASH ON TIME SE	TTING			
5	Scan two characters from Appendix D	'0' and '5'	'1' and '0'	'5' and '2'	'9' and '9'
6	Scan ENTER/EXIT PROGRAMMIN	G MODE			

Table 16 Flash On Time Setting Examples

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.

Follow these instructions to set this feature.

- 1. Determine the desired setting in milliseconds.
- 2. Divide the desired setting by 100 (setting is in 100ms increments). Pad the result with leading zeroes to yield two digits. For example: 0 = 00, 5 = 05, 20 = 20, etc.
- 3. Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Scan the bar code: SELECT FLASH OFF TIME SETTING on page 80.
- 5. Scan the appropriate two digits from the keypad in Appendix D, that represent the duration which was determined in the steps above. You will hear a two-beep indication after the last character.



NOTE: 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.

6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode.

This completes the procedure. See the following table for examples of how to set this feature.

STEP	ACTION	EXAMPLES			
1	Desired Setting	500ms	1,000ms (1 sec.)	5200ms (5.2 sec.)	9,900ms (9.9 sec.)
2	Divide by 100 (and pad with leading zeroes to yield two digits)	05	10	52	99
3	Scan ENTER/EXIT PROGRAMMING MODE				
4	Scan SELECT FLASH OFF TIME SETTING				
5	Scan two characters from Appendix D	'0' and '5'	'1' and '0'	'5' and '2'	'9' and '9'
6	Scan ENTER/EXIT PROGRAMMIN	G MODE			

Table 17 Flash Off Time Setting Examples

LED AND BEEPER INDICATORS

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 10 milliseconds to 2,550 milliseconds (0.001 to 2.55 seconds) in 100ms increments.

Follow these instructions to set this feature:

- 1. Determine the desired setting in milliseconds. A setting of 0 means that the good read LED stays on until the next time the trigger is pulled.
- 2. Divide the desired setting by 10 (setting is in 100ms increments). Pad the result with leading zeroes to yield three digits. For example: 0 = 000, 5 = 000, 20 = 020, etc.
- 3. Go to page 89 and scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 4. Scan the bar code: SELECT GOOD READ LED DURATION SETTING.
- 5. Scan the appropriate two digits from the keypad in Appendix D, that represent the duration which was determined in the steps above. You will hear a two-beep indication after the last character.



NOTE: 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.

6. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode.

This completes the procedure. See the following table for some examples of how to set this feature.

STEP	ACTION	EXAMPLES			
1	Desired Setting	Good Read LED stays on until next trig- ger pull (00)	20ms	150ms	2550ms (2.55 sec.)
2	Divide by 10 (and pad with lead- ing zeroes)	000	002	015	255
3	Scan ENTER/EXIT PROGRAMMING MODE				
4	Scan SELECT GOOD READ LED DURATION SETTING				
5	Scan three characters from Appendix D	'0', '0' and '0'	'0', '0' and '2'	'0', '1' and '5'	'2', '5' and '5'
6	Scan ENTER/EXIT PROGRAMMING MODE				

Table 18 Good Read LED Duration Setting Example

RF FEATURES

Automatic Configuration Update

When this feature is enabled, the gateway and reader will keep their configurations synchronized. If a reader's configuration is altered by reading programming labels, this change is automatically transferred and updated in a linked host. Likewise, if the gateway's configuration is changed using Aladdin or by host commands, then the reader's configuration will automatically be updated if this feature is enabled.

RF Address Stamping

Source Radio Address Delimiter Character

This option specifies the delimiter character to be placed between the label data and radio address when address stamping is enabled.



NOTE: This feature only applies if "Source Radio Address Transmission" on page 226 **is enabled**

Follow these instructions to select the delimiter character:

- 1. Determine the desired character, then find its hexadecimal equivalent on the ASCII Chart on page 308. A setting of 00 specifies no delimiter character.
- Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 3. Scan the bar code: SET SOURCE RADIO ADDRESS DELIMITER CHARACTER.
- 4. Scan the appropriate two digits from the keypad in Appendix D, that represent the hexadecimal characters which were determined in the steps above. You will hear a two-beep indication after the last character.



NOTE: 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.

5. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit.

Table 19 Source Radio Address Delimiter Character Setting Examples

STEP	ACTION		EXAM	IPLES	
1	Desired Setting	No delimiter character	, (comma)	- (dash)	/ (slash)
2	Scan ENTER/EXIT PROGRAMMING MODE				
3	Scan SET SOURCE RADIO ADDRE	SS DELIMITER (HARACTER		
4	Scan Two Characters From Appendix D	'0' and '0'	'2' and 'C'	'2' and 'D'	'2' and 'F'
5	Scan ENTER/EXIT PROGRAMMIN	G MODE			

SYMBOLOGIES

Set Length

Length Control allows you to select either variable length decoding or fixed length decoding for the specified symbology.

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

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

Set Length 1

This feature specifies one of the bar code lengths for a given symbology. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode.

Reference the 1D Symbologies, starting on page 97 to view the selectable range (number of characters) for the symbology being set.

Follow these instructions to set this feature:

- 1. Determine the desired character length. Pad the number with leading zeroes to yield two digits. For example: 0 = 00, 5 = 05, 20 = 20, etc.
- 2. Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 3. Scan the "Select Length 1 Setting" for the symbology being set.
- 4. Scan the appropriate two digits from the keypad in Appendix D, that represent the length setting which was determined in the steps above. You will hear a two-beep indication after the last character.



NOTE: 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.

5. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode.

This completes the procedure. See the following table for examples of how to set this feature.

STEP	ACTION		EXAM	IPLES	
1	Desired Setting	01 Character	07 Character	52 Character	74 Character
2	Scan ENTER/EXIT PROGRAMMING MODE				
3	Scan SELECT LENGTH 1 SETTING	for the desired	symbology		
4	Scan two characters from Appendix D	'0' and '1'	'0' and '7'	'5' and '2'	'7' and '4'
5	Scan ENTER/EXIT PROGRAMMIN	G MODE			

Table 20 Length 1 Setting Examples

Set Length 2

This feature specifies one of the bar code lengths for a given symbology. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode.

Reference the 1D Symbologies, starting on page 97 to view the selectable range (number of characters) for the symbology being set. A setting of 00 specifies to ignore this length (only one fixed length).

Follow these instructions to set this feature:

- 1. Determine the desired character length. Pad the number with leading zeroes to yield two digits. For example: 0 = 00, 5 = 05, 20 = 20, etc.
- 2. Scan the ENTER/EXIT PROGRAMMING MODE bar code to enter Programming Mode.
- 3. Scan the "Select Length 2 Setting" for the symbology being set.
- 4. Scan the appropriate two digits from the keypad in Appendix D, that represent the length setting which was determined in the steps above. You will hear a two-beep indication after the last character.



NOTE: 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.

5. Scan the ENTER/EXIT PROGRAMMING MODE bar code to exit Programming Mode.

This completes the procedure. See the following table for examples of how to set this feature.

STEP	ACTION		EXAM	IPLES	
1	Desired Setting	00 (ignore second length)	07 Character	52 Character	74 Character
2	Scan ENTER/EXIT PROGRAMMING MODE				
3	Scan SELECT LENGTH 2 SETTING				
4	Scan two characters from Appendix D	'0' and '0'	'0' and '7'	'5' and '2'	'7' and '4'
5	Scan ENTER/EXIT PROGRAMMIN	G MODE			

Table 21 Length 2 Setting Examples

CHAPTER 5 MESSAGE FORMATTING

MESSAGE FORMATTING

A message from the Host to the gateway must follow these rules:

- If Address stamping options or address delimiter are enabled on the gateway, the Host replay must have address field and delimiter too. Otherwise the message will be ignored. Address delimiter is present only when address stamping is enabled.
- Address stamping is necessary to correctly route the message to the CODiScan[™], especially when more than one handheld is linked to the same gateway. Address stamping could be disabled if the system is in point to point configuration. If address stamping is not enabled, the messages are addressed to the first handheld linked to the gateway.
- The maximum character length for messages is 48.
- Messages end with "CR" 0x0D ASCII character. The CR character cannot be contained in the middle.
- Messages cannot start with '\$' or # because these are reserved for Service mode command
- The Gateway can receive host message only if Host Commands Obey/Ignore is set to Ignore.
- Message could be sent to the HH in response to a Label when "Transmit mode" require Ack from Host (see transmit mode parameter) or at any time. When messages are sent not in response to a label must start with DC2 0x12 ASCII character and could be sent in any transmit mode setting.
- Message could be sent to all HH linked to gateway by using a Multicast message: "00 00 00 2A AA"
- In order to receive a message, handhelds must not be in sleep state.
- If you want to control the reader's beeper from the host, you will also probably want to disable the good transmission beep that is emitted when the code is received from the BT connected host. (See "Wireless Features" on page 216).
- The message field can store plain text and escape sequences. Escape sequences are interpreted as commands.

The format of the ACK from Host message (used for transmission mode 02) is: [Scanner_Addr] [Scanner_Addr_delimiter] MESSAGE <CR>

The format of a generic message From Host to HH is:

[Scanner_Addr] [Scanner_Addr_delimiter] DC2 MESSAGE <CR>

where DC2 is ASCII 0x12 (^R) character.

[Items in square brackets are optional.]

LED AND BEEPER CONTROL

The LED control escape sequences are intended to activate the LEDs for short periods of time and can be used in combination with the Beeper. The LED and Beeper will be controlled by the system after the entire command sequence is interpreted.

ESC SEQUENCE	ACTION
Esc [0 q	Emit short High tone + short delay
Esc [1 q	Emit short Low tone + short delay
Esc [2 q	Emit long Low tone + short delay
Esc [3 q	Emit good read tone
Esc [4 q	Emit bad tx tone
Esc [5 q	Wait 100 msec
Esc [6 q	Turn on the green LED
Esc [7 q	Turn off the green LED
Esc [8 q ^a	Turn on the red LED
Esc [9 q ^b	Turn off the red LED
Esc [0 r	Beep for Find me function
Esc [1 r	Power-off
Esc [2 r	Turn on Green Spot LED
Esc [3 r	Turn off Green Spot LED
Esc [4 r ^a	Turn on the red LED
Esc [5 r ^b	Turn off the red LED

a. Esc [8 q performs the same function as Esc [4 r

b. Esc [9 q performs the same function as Esc [5 r

Example:

Esc [6 q Esc [3 q Esc [7 q	Turns on the green LED, emits a good read tone, and turns off the green LED.
Esc [6 q Esc [5 q Esc [7 q	Turns on the green LED for 100 msec and then turns off the green LED.

Escape sequences different from those listed will be ignored.

APPENDIX A TECHNICAL SPECIFICATIONS

The table below contains Physical and Performance Characteristics, User Environment and Regulatory information.

CODISCAN™ HS7600 TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS			
Color	Black		
Dimensions	50 x 44 x 19 mm / 1.9 x 1.7 x 0.7 in		
Weight	44 g / 1.5 oz		
ELECTRICAL CHAR	ACTERISTICS		
Power Supply	Battery Powered		
Power Supply Charging Station	See charger manual		
Reading Indicators	Top illumination, Good Read Spot, Beep		
Operating Time / Scans	16 hours (1 scan every 5 secs) / 12,000 scans depending on set- tings and environmental conditions		
Battery	640 mAh, Lithium polymer (rechargeable)		
Recharge Time (Typical)	2.15 hours with Datalogic Charging Station		
OPTICAL CHARACT	OPTICAL CHARACTERISTICS		
Optical Resolution	1280 x 960 pixels		
Illumination System	White LED		
Aiming System	Laser		
, and g o yoken	Red Emission (wavelength - 630-680nm)		
PCS (Datalogic Test Chart)	minimum 25%		
	SR		
	Horizontal: 42°, Vertical: 32°		
Field of view			
	MR		
	Horizontal: 30°, Vertical 23°		

Table 22 HS7600 Technical Specifications



Skew Tolerance ^a	+/- 60°
Pitch Tolerance ^a	+/- 60°
Roll Tolerance ^a	+/- 180°
Ambient Light Up to	0 - 100,000 lux
Aimer	650 nm, 1 mW

a. Based on ISO 15423 specifications

ENVIRONMENTAL CHARACTERISTICS		
Operating Temperature	-20 to 50 °C / -4 to 122 °F	
Charging Temperature	0 to 40 °C / 32 to 104 °F	
Storage Temperature	-20 to 60 °C / -4 to 140 °F	
Humidity	0 - 95% non condensing	
Dran Dagistanas	Resists multiple drops from 1.8 m / 5.9 ft onto concrete	
Drop Resistance	- IEC 60068-2-31:2008 – 1	
ESD Protection	16 KV	
Tumbles	1,000 at 0.5 m / 1.6 ft - IEC 60068-2-31:2008 – 2	
Impact Resistance	>IK06(1J) - IEC60068-2-75	
Particulate and Water Sealing	IP54 - EN 60529	
FEEDBACK		
Green Spot	Datalogic 'Green Spot' on the Code for Good Read	
I FDs	3 LEDs: 2 Lateral blades, rear LED spot with separate	
	on/off – good read, battery status, Bluetooth pairing	
Audio	85 dbA – adjustable	
Haptic	Vibration feedback option available	

RADIO CHARACTERISTICS	
Bluetooth Wireless Technology	BT BLE/CLASSIC 5.2 class 1,2,3 Supports Bluetooth Low Energy 4.0, 4.1, 4.2, 5.0, 5.1, 5.2
Transmission Range	100 m / 328 ft to host (depending on Host, OK Gateway)
Max number of devices per gateway	7
Wi-Fi (via Gateway)	 IEEE 802.11b/g/n, 1×1, 20 MHz channel band- width, 2.4 GHz Wi-Fi security: WPA2/WPA3 Personal; WPA2 Enterprise PEAP, TLS, TTLS MQTT client protocol v. 3.1, v. 3.1.1 WebSocket client

COMMON READING CHARACTERISTICS

Table 23 Reading Characteristics CODiScan[™] HS7600

DOF - DEPTH OF FIELD (TYPICAL) ^A		
DOF range		
SR		
5 mil: 13 to 22 cm / 5.1 to 8.6 in		
20 mil: 40 to 110 cm / 15.7 to 43.3 in		
MR		
20 mil: up to 160 cm / up to 62.9		
100 mil: up to 500 cm /up to 196.8		
SR		
5 mil: 10 to 30 cm / 3.9 to 11.8 in		
MR		
5 mil: 21 to 52 cm / 8.2 to 20.4 in		
SR		
5 mils: 12 to 19 cm / 4.7 to 7.5 in		
MR		
5 mil: 22 to 30 cm /8.6 to 11.8 in		
SR		
10 mils: 10 to 28 cm / 3.9 to 11 in		
MR		
10 mil: 20 to 45 cm / 7.8 to 17.7 in		
SR		
13 mils: 4.5 to 74 cm / 1.7 to 29.1in		
MR		
13 mil: 8 to 100 cm / 3.1 to 39.3 in		
SR		
15 mils: 4 to 37 cm / 1.5 to 14.5 in		
ID Linear: 3 mils; PDF/17: 6.6 mils:		
Data Matrix: 7.5 mils;		

a. All labels grade A, typical environmental light, 20°C, label inclination 10°

DECODING CAPABILITIES

DECODE CAPABILITY

1D Bar Codes

UPC/EAN/JAN (A, E, 13, 8); UPC/EAN/JAN (including P2 /P5); UPC/EAN/JAN (including; ISBN / Bookland & ISSN); UPC/EAN Coupons;Code 39 (including full ASCII); Code 39 Trioptic; Code39 CIP HR (French Pharmaceutical); LOGMARS (Code 39 w/ standard check digit enabled); Danish PPT; Code 32 (Italian Pharmacode 39); Code 128; Code 128 ISBT; Interleaved 2 of 5; Standard 2 of 5; Interleaved 2 of 5 CIP (HR); Interleaved 2 of 5 Febraban (for desk models only); Industrial 2 of 5; Discrete 2 of 5; Datalogic 2 of 5 (China Post Code/Chinese 2 of 5); IATA 2 of 5 Air cargo code; Follet 2 of 5; Codabar; Codabar (NW7); ABC Codabar; Code 11; Code 93; MSI; PZN; Plessey; Anker Plessey;GS1 DataBar Limited; GS1 DataBar Expanded; GS1 DataBar Truncated; DATABAR Expanded Coupon.

2D Stacked Codes

The CODiScan[™] HS7600 family is capable of decoding the following symbologies using multiple frames (i.e. Multi-Frame Decoding):

Datamatrix; Inverse Datamatrix; Datamatrix is configurable for the following parameters:; Normal or Inverted; Square or Rectangular Style; Data length (1 - 3600 characters); Maxicode; QR Codes (QR, Micro QR and Multiple QR Codes); Aztec; Postal Codes - (Australian Post; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM45CC); Intelligent Mail Barcode (IMB); Sweden Post; Portugal Post); LaPoste A/R 39; PDF-417; MacroPDF; Micro PDF417; GS1 Composites (1 - 12);

French CIP13^a; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; GS1 DataBar Expanded Stacked; GS1 Databar Composites; GS1 DotCode;

Chinese Sensible Code; Inverted 2D codes^b.

- a. It is acceptable to handle this with ULE.
- b. The SW can apply the Normal/Reverse Decoding Control to the following symbologies: Datamatrix, QR, Micro QR, Aztec and Chinese Sensible Code.

RECOMMENDED SERVICES

DATALOGIC'S EASEOFCARE

CODiScan comes with a wide and complete range of post-sales services to guarantee the most appropriate professional assistance based on the needed level of service.

LED AND BEEPER INDICATIONS

The reader's beeper sounds and its illumination flashes or changes color to indicate various functions or errors on the reader. A "Green Spot" also lights to indicate a good read. The tables below list these indications.

Table 24LED and Beeper Indications

INDICATION	LED	BEEPER
Power-up	Upper LED flashes/blinks on power-up. With a USB interface, the LED blinks until enumeration with the host is com- pleted. The rear LED will turn blue for 2 and a half minutes in discoverable HOGP mode if not previously linked to a host.	Reader beeps four times at highest fre- quency and volume upon power-up.
Good Read	Upper green LED comes on for pro- grammed time (default). LED behavior for this indication is con- figurable using Aladdin utility.	One beep at current frequency, volume, mono/bi-tonal setting upon a successful label scan.
ROM Failure	200 msec on ↔ 200 msec off	Reader sounds one error beep at highest volume for 200 msec.
Limited Scanning Label Read	N/A	Reader 'chirps' six times at the highest fre- quency and current volume.
Imager Disabled	The LED blinks continuously 100 msec on ↔ 900 msec off	N/A

USER INDICATIONS FOR HS7600

Table 25 User Indications for HS7600

STATUS	GOOD READ LED	BATTERY LED	BUZZER
Power-up	OFF	OFF	Rising Beeps' Sequence
USB Enumeration Phase	250 msec ^a ON \leftrightarrow 250 msec OFF	OFF	OFF
While Reading	OFF	OFF	OFF
Decode Done	Solid ON Programmable Duration (1 s default)	OFF	Single Beep
Reader Disabled (POS) Communication with host not established	100 msec ON \leftrightarrow 900 msec OFF	OFF	OFF
Firmware Upgrade	250 msec ON \leftrightarrow 250 msec OFF	OFF	OFF
Host Download	250 msec ON \leftrightarrow 250 msec OFF	OFF	OFF
Paging Answer	5 cycles: 100 msec 0N ↔ 900 msec 0FF	OFF	5 Beeps (when LED ON)
Enter Service Mode	No Effect	OFF	Beeps' Sequence
Label Programming	No Effect	OFF	Веер

STATUS	GOOD READ LED	BATTERY LED	BUZZER
ACK Received on Transmission	OFF	OFF	Single Program- mable Beep (OFF by default)
ACK NOT Received on Transmission	OFF	OFF	Wrong Beep
Configuration Alignment	250 msec ON ↔ 250 msec OFF	OFF	OFF
Charge in Progress through USB-C ^b	OFF	Blinking: 1 s ON . 1 s OFF Green (charge = 50% - 99%) Orange (charge = 1% - 49%) Reader is unusable until 1% is reached	OFF
Charge Complete through USB-C	OFF	Solid Green It goes OFF when unplugged	OFF
Charge Fault	OFF	OFF	OFF
Battery Status indications when not charging, by pressing for 5-9 seconds the multifunctional key button	OFF	Solid with programmable duration (3 s default) and then OFF Green (charge = 50% - 100%) Orange (charge = 2% - 50%) Red forced loop (charge less than 2%)	OFF

a. "msec" stands for milliseconds, equivalent to 1/1000th of a second

b. In case of heavily depleted battery (e.g. if the reader has not been used for a long time), the reader being charged will not be operational for a certain amount of time, which can vary from just a few minutes to 30-40 minutes depending on battery discharge level.

PROGRAMMING MODE

The following indications ONLY occur when the reader is in Programming Mode.

INDICATION	DESCRIPTION	LED	BEEPER
Enter Programming Mode	A valid programming label has been scanned.	LED blinks continu- ously	Reader sounds four low fre- quency beeps.
Rejection of Label	Label has been rejected.	N/A	Reader sounds three times at lowest frequency & current vol- ume.
Acceptance of Partial Label	In cases where multiple labels must be scanned to program one feature, this indication acknowledges each portion as it is success- fully scanned.	N/A	Reader sounds one short beep at highest frequency & current volume.
Acceptance of Programming	Configuration option(s) have been successfully pro- grammed via labels and the reader has exited Program- ming Mode.	N/A	Reader sounds one high fre- quency beep and four low fre- quency beeps followed by reset beeps.
Cancel Item Entry	Cancel label has been scanned.	N/A	Reader sounds twice at low fre- quency & current volume.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Nothing happens when the scan button is pulled.	No power to the reader	Check system power. Ensure power supply is connected.
	Interface or power cables are loose.	Ensure all cable connections are secure.
LED comes on but bar code does not decode.	Reader not programmed for correct bar code type.	Ensure reader is programmed to read the type of bar code scanned.
	Bar code label is unreadable.	Check the label to ensure it is not defaced. Try scanning another bar code type.
	Distance between reader and bar code is incorrect.	Move reader closer to or further from the bar code.
Bar code is decoded but not transmitted to the host.	Reader not programmed for the cor- rect host type.	Scan the appropriate host type bar code.
CLEANING PROCEDURE

Exterior surfaces and scan windows exposed to spills, smudges or debris accumulation require periodic cleaning to ensure best performance during scanning operations. Follow the procedures described in this instruction sheet to keep your CODiScan device in good operating condition



WARNING: Be sure to turn off power and unplug the device from electrical outlet before cleaning.



CAUTION: DO NOT use abrasive pads or cleaning agents.

Common Cleaning Solutions

The cleaners and disinfectants listed below are recommended for use on Datalogic's CODiScan enclosures:

CLEANERS	DISINFECTANTS
Formula 409® Glass and Surface Cleaner	Clorox® Bleach (diluited 10:1)
70% Isopropyl Alcohol	Hydrogen Peroxide 3%
Windex [®] Multi-Surface	
100% Gentle dish soap and water	



NOTE: Disinfectants may be harsh on metal. They are recommended for use only on enclosures



CAUTION: DO NOT spray or pour cleaner directly onto the unit.

DO NOT use solutions in their concentrated form.

DO NOT use aerosols, solvents or abrasives.

DO NOT use paper towels or rough cloths to clean windows.

DO NOT use products containing chlorine.

Cleaning enclosure and window surfaces

- 1. Moisten a soft cloth with a recommended cleaning solution. Be sure to apply the solution to your cloth first. Wring excessive liquid from the cloth.
- 2. Use the cloth to wipe down the surface of the unit. Use cotton swabs, lightly moistened, to reach in corners and crevices.
- 3. Use another clean dry cloth to remove any residue of the cleaning agent and ensure the unit is dry.



Cleaning electrical contact surfaces

Regular cleaning of electrical contacts is needed to guarantee a correct recharging of the battery. Both scanner and cradle contacts should be cleaned.

In case spills, smudges or debris accumulate on the cradle and/or the scanner, proper operation could be affected and a periodical cleaning is recommended as follows.

Avoid the use of brushes or any other hard tool to remove grime from electrical contacts, since these may damage or scratch the contact's plating.



Scanner Contacts

- Use a soft dry cloth to clean the contact area and the plastic surface around the contacts.
- Be sure to remove dust, dirt and any cloth residue.
- If the level of grime is significant, it is suggested the use of a soft white or pink pencil eraser to gently rub the contacts.
- Be sure to remove the rubber residuals by gently blowing them off with clean compressed air.



CAUTION: Be careful when using compressed air: protect yourself with goggles and point the nozzle far from eyes and not too close to the scanner surface. Read previously the warning label on the spray can.

Scanner deep cleaning

In case some hard grime, grease or liquid residual are present on electrical contacts, a deeper cleaning may be needed. If the above procedure is not enough to guarantee proper working of the system, the use of isopropyl alcohol is suggested (minimum 70%).

In this case it is suggested to use a cotton tipped applicator with isopropyl alcohol, gently wiping along the pins of the electrical connection. Be sure that cotton residue is not left on any pin of the electrical contacts.



NOTE: Remove power before initiating the deep cleaning routine.

After completion of the deep cleaning routine allow the system to dry completely before reconnecting to power. Depending on the environmental conditions wait at least 30 minutes or, if possible, leave the system unpowered overnight.





APPENDIX B STANDARD DEFAULTS

The most common configuration settings are listed in the "Default" column of the table below. Page references are also provided for feature descriptions and programming bar codes for each parameter. A column has also been provided for recording of your preferred default settings for these same configurable features.

Table 26 Standard Defaults

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER	
GLOBAL INTERFACE FEATURES	1		I	
Host Commands — Obey/Ignore	Obey		27	
USB-COM				
Intercharacter Delay	No Delay		29	
Beep On ASCII BEL	Disable		30	
Beep On Not on File	Enable		30	
ACK NAK Options	Disable		31	
ACK Character	'ACK'		32	
NAK Character	'NAK'		32	
ACK NAK Timeout Value	200 msec		33	
ACK NAK Retry Count	3 Retries		32	
ACK NAK Error Handling	Ignore Errors Detected		34	
Indicate Transmission Failure	Enable		34	
Disable Character	'D'		35	
Enable Character	'E'		35	
KEYBOARD INTERFACE				
Setting Country Mode	U.S. Keyboard		39	
Encoding Type	Don't Use Encoding		53	
ALT Output Type	ALT Unicode		60	

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER
Keyboard Numeric Keypad	Standard Keys		61
Keyboard Send Control Characters	Send Ctrl+Key		61
Intercharacter Delay	00 = No Intercharacter Delay		62
Intercode Delay	00 = No Intercode Delay		62
USB Keyboard Speed	1ms		63
USB OEM			
USB-OEM Device Usage	Handheld		65
DATA FORMAT			
Global Prefix/Suffix	No Global Prefix Global Suffix = 0x0D (CR)		67
Case Conversion	Disable (no case conversion)		68
Character Conversion	0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		68
Global AIM ID	Disable		69
GS1-128 AIM ID	Disable		69
Label ID: Pre-loaded Sets	USA Set		70
Label ID Control	Disable		71
Label ID Symbology Selection			72
READING PARAMETERS			
Scan Mode	Trigger Simple		78
Scanning Active Time	5 seconds		79
Flash On Time	10 = Flash is ON for 1 second		79
Flash Off Time	06 = Flash is OFF for 600ms		80
Double Read Timeout	0.6 second		80
Object Detection Sensitivity	Medium		82
Object Detection Illumination Off Time	1 second		83
Power On Alert	Power-up Beep		84
Good Read Beep Type	Mono		84
Good Read Beep Frequency	High		85
Good Read Beep Length	80 msec		86

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER
Good Read Beeper Volume	High		87
Silent Mode	Disable		88
Good Read LED Duration	Enable		89
Good Read LED Duration	300 msec		89
Good Read: When to Indicate	After Decode		90
Green Spot Duration	Short (300 msec)		91
Good Read Vibration Duration	Vibration ON (200 msec)		91
Aiming Pointer	Enable		92
Pick Mode	Disable		92
Mobile Phone Mode	Enable		93
Mobile Phone Saturation Rate	00		93
Decode Negative Image	Disable		94
Multiple Labels per Frame	Disable		95
Multiple Labels Ordering by Code Symbology	Random Order		95
Multiple Labels Ordering by Code Length	Disable		96
CODE SELECTION - 1D SYMBOLOGIES	5		
Code EAN/UPC			
Coupon Control	Enable only UPC/EAN		98
UPC-A			
UPC-A Enable/Disable	Enable		99
UPC-A Check Character Transmis- sion	Send		99
Expand UPC-A to EAN-13	Don't expand		100
UPC-A Number System Character Transmission	Transmit		100
UPC-E			
UPC-E Enable/Disable	Enable		101
UPC-E Check Character Transmis- sion	Send		101
Expand UPC-E to EAN-13	Don't expand		102
Expand UPC-E to UPC-A	Don't expand		102

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER	
UPC-E Number System Character Transmission	Transmit		102	
GTIN				
GTIN Formatting	Disable		103	
EAN 13 (Jan 13)				
EAN-13 Enable/Disable	Enable		104	
EAN-13 Check Character Transmis- sion	Send		104	
EAN-13 Flag 1 Character	Transmit		105	
EAN-13 to ISBN Conversion	Disable		105	
ISSN				
EAN-13 to ISSN Conversion	Disable		106	
EAN 8				
EAN-8 Enable/Disable	Enable		107	
EAN-8 Check Character Transmis- sion	Send		107	
Expand EAN-8 to EAN-13	Don't Expand		108	
UPC/EAN Global Settings				
UPC/EAN Price Weight Check	Disable		109	
UPC/EAN Quiet Zones	Two Modules		110	
ADD-ONS				
Optional Add-ons	Disable P2 and P5		111	
Optional Add-On Timer	70 msec		112	
GS1 DATABAR™ OMNIDIRECTIONAL				
GS1 DataBar Omnidirectional Enable/Disable	Disable		113	
GS1 DataBar Omnidirectional to GS1-128 Emulation	Disable		113	
GS1 DataBar Expanded Enable/Dis- able	Disable		114	
GS1 DataBar Expanded to GS1-128 Emulation	Disable		114	
GS1 DataBar Expanded Length Con- trol	Variable		115	

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER
GS1 DataBar Expanded Set Length 1	1		115
GS1 DataBar Expanded Set Length 2	74		116
GS1 DATABAR™ LIMITED	<u> </u>		
GS1 DataBar Limited Enable/Disable	Disable		117
GS1 DataBar Limited to GS1-128 Emulation	Disable		117
CODE 39	L,		
Code 39 Enable/Disable	Enable		118
Code 39 Check Character Calculation	Don't calculate		118
Code 39 Check Character Transmis- sion	Send		119
Code 39 Start/Stop Character Trans- mission	Don't transmit		119
Code 39 Full ASCII	Disable		120
Code 39 Quiet Zones	Small Quiet Zones on two sides		120
Code 39 Length Control	Variable		121
Code 39 Set Length 1	02		121
Code 39 Set Length 2	50		122
TRIOPTIC CODE	L		
Trioptic Code Enable/Disable	Disable		123
CODE 39 DANISH PPT	L,		
Code 39 Danish PPT Enable/Disable	Disable		123
CODE 39 PZN	L		
Code 39 PZN Enable/Disable	Disable		124
CODE 39 LA POSTE	L		
Code 39 La Poste Enable/Disable	Disable		124
CODE 32 (Italian Pharmaceutical Code	÷)		
Code 32 Enable/Disable	Disable		125
Code 32 Check Character Transmis- sion	Don't Send		125
Code 32 Start/Stop Character Trans- mission	Don't Transmit		126
Code 39 CIP HR (French Pharmaceutical Code)			

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER
Code 39 CIP HR Enable/Disable	Disable		126
SPECIAL CODES			
Code 128			
Code 128 Enable/Disable	Enable		127
Expand Code 128 to Code 39	Don't Expand		127
Code 128 Check Character Trans- mission	Don't Send		128
Code 128 Function Character Trans- mission	Don't Send		128
Code 128 Quiet Zones	Auto		129
Code 128 Length Control	Variable		129
Code 128 Set Length 1	1		130
Code 128 Set Length 2	80		130
GS1-128			
GS1-128 Enable	Transmit in Code 128 Data Format		131
INTERLEAVED 2 of 5			
I 2 of 5 Enable/Disable	Disable		132
I 2 of 5 Check Character Calculation	Disable		133
I 2 of 5 Check Character Transmis- sion	Send		134
I 2 of 5 Length Control	Variable		135
I 2 of 5 Set Length 1	6		135
I 2 of 5 Set Length 2	50		136
INTERLEAVED 2 of 5, FEBRABAN FOR	RMAT (Desk Models Only)		
Interleaved 2 of 5, Febraban format Enable / Disable	Disable		137
INTERLEAVED 2 of 5 CIP HR			
Interleaved 2 of 5 CIP HR Enable/ Disable	Disable		137
MATRIX 2 of 5			
Matrix 2 of 5 Enable/Disable	Disable		138
Matrix 2 of 5 Check Character Calcu- lation	Disable		138

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER
Matrix 2 of 5 Check Character Trans- mission	Send		139
Matrix 2 of 5 Length Control	Variable Length		139
Matrix 2 of 5 Set Length 1	8 characters		140
Matrix 2 of 5 Set Length 2	50 characters		140
STANDARD 2 of 5			
Standard 2 of 5 Enable/Disable	Disable		141
Standard 2 of 5 Check Character Cal- culation	Disable		141
Standard 2 of 5 Check Character Transmission	Send		142
Standard 2 of 5 Length Control	Variable Length		142
Standard 2 of 5 Set Length 1	08 (8 characters)		143
Standard 2 of 5 Set Length 2	50 (50 characters)		143
COMPRESSED 2 of 5			
Compressed 2 of 5 Enable/Disable	Disable		144
Compressed 2 of 5 Check Character Calculation	Disable		144
Compressed 2 of 5 Check Character Transmission	Send		145
Compressed 2 of 5 Length Control	Variable Length		145
Compressed 2 of 5 Set Length 1	1 character		146
Compressed 2 of 5 Set Length 2	50 characters		146
DATALOGIC 2 OF 5			
Datalogic 2 of 5 Enable/Disable	Disable		147
Datalogic 2 of 5 Check Character Calculation	Disable		147
Datalogic 2 of 5 Check Character Transmission	Send		148
Datalogic 2 of 5 Length Control	Variable Length		148
Datalogic 2 of 5 Set Length 1	6 characters		149
Datalogic 2 of 5 Set Length 2	50 characters		149
INDUSTRIAL 2 of 5			
Industrial 2 of 5 Enable/Disable	Disable		150

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER
Industrial 2 of 5 Check Character Calculation	Disable		150
Industrial 2 of 5 Check Character Transmission	Send		151
Industrial 2 of 5 Length Control	Variable		151
Industrial 2 of 5 Set Length 1	6 characters		152
Industrial 2 of 5 Set Length 2	50 characters		152
CODE IATA			
IATA Enable/Disable	Disable		153
IATA Check Character Transmission	Send		153
FOLLET 2 OF 5			
Follett 2 of 5 Enable/Disable	Disable		154
CODABAR			
Codabar Enable/Disable	Disable		155
Codabar Check Character Calcula- tion	Disable		155
Codabar Check Character Transmis- sion	Send		156
Codabar Start/Stop Character Transmission	Transmit		156
Codabar Start/Stop Character Set	abcd/abcd		157
Codabar Start/Stop Character Match	Don't Require Match		157
Codabar Quiet Zones	Quiet Zones on two sides		158
Codabar Length Control	Variable		159
Codabar Set Length 1	3 characters		159
Codabar Set Length 2	50 characters		160
ABC CODABAR			
ABC Codabar Enable/Disable	Disable		161
ABC Codabar Concatenation Mode	Static		161
ABC Codabar Dynamic Concatena- tion Timeout	200 msec		162
ABC Codabar Force Concatenation	Disable		162
ISBT-128		,	

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER
ISBT 128 Concatenation	Disable		163
ISBT 128 Concatenation Mode	Static		163
ISBT 128 Dynamic Concatenation Timeout	200 msec		164
ISBT 128 Force Concatenation	Disable		165
ISBT 128 Advanced Concatenation Options	Disable		165
CODE 11		• •	
Code 11 Enable/Disable	Disable		166
Code 11 Check Character Calculation	Check C and K		166
Code 11 Check Character Transmis- sion	Send		167
Code 11 Length Control	Variable		167
Code 11 Set Length 1	4 characters		168
Code 11 Set Length 2	50 characters		168
CODE 93			
Code 93 Enable/Disable	Disable		169
Code 93 Check Character Calculation	Calculate Check C and K		169
Code 93 Check Character Transmis- sion	Don't Send		170
Code 93 Length Control	Variable		170
Code 93 Set Length 1	1 character		171
Code 93 Set Length 2	50 characters		171
Code 93 Quiet Zones	Auto		172
MSI			
MSI Enable/Disable	Disable		173
MSI Check Character Calculation	Calculate Mod 10		173
MSI Check Character Transmission	Send		174
MSI Length Control	Variable		174
MSI Set Length 1	1 character		175
MSI Set Length 2	50 characters		175
PLESSEY			
Plessey Enable/Disable	Disable		176

OJATALOGIC

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER
Plessey Check Character Calculation	Plessey std check char. verification		176
Plessey Check Character Transmis- sion	Send		177
Plessey Length Control	Variable		177
Plessey Set Length 1	1 character		178
Plessey Set Length 2	50 characters		178
BC412			
BC412 Enable/Disable	Disable		179
BC412 Check Character Calculation	Calculate		179
BC412 Length Control	Variable		180
BC412 Set Length 1	1 character		181
BC412 Set Length 2	50 characters		181
CODE SELECTION - 2D SYMBOLOGIES	5		
2D Structured Append	Disable		184
2D Normal/Inverse Symbol Control	Normal		184
AZTEC CODE			
Aztec Code Enable / Disable	Enable		185
Aztec Code Length Control	Variable		185
Aztec Code Set Length 1	1 character		184
Aztec Code Set Length 2	3,832 characters		186
CHINA SENSIBLE CODE			
China Sensible Code Enable / Dis- able	Disable		187
China Sensible Code Length Control	Variable		187
China Sensible Code Set Length 1	1 character		188
China Sensible Code Set Length 2	7,827 characters		188
DATA MATRIX			
Data Matrix Enable / Disable	Enable		189
Data Matrix Square/Rectangular Style	Both Square and Rectangular Style		189
Data Matrix Length Control	Variable		190
Data Matrix Set Length 1	1 character		190

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER
Data Matrix Set Length 2	3,116 characters		191
GS1 DOTCODE			
DotCode Enable	Disable		192
DotCode High Resolution Enable	Enable		192
DotCode Position-based Decoding	Disable		193
MAXICODE			
Maxicode Enable / Disable	Disable		194
Maxicode Primary Message Trans- mission	Disable		194
Maxicode Length Control	Variable		195
Maxicode Set Length 1	1 character		195
Maxicode Set Length 2	0145 characters		196
PDF417		1	
PDF417 Enable / Disable	Enable		197
PDF417 Length Control	Variable		197
PDF417 Set Length 1	1 character		198
PDF417 Set Length 2	2,710 characters		198
MICRO PDF417		1	
Micro PDF417 Enable / Disable	Enable		199
Micro PDF417 Code 128 GS1-128 Emulation	Micro PDF AIM ID and label type		199
Micro PDF417 Length Control	Variable		200
Micro PDF417 Set Length 1	1 character		200
Micro PDF417 Set Length 2	0366 characters		201
QR CODE			
QR Code Enable / Disable	Enable		202
QR Code Length Control	Variable		202
QR Code Set Length 1	1 character		203
QR Code Set Length 2	7,089 characters		203
MICRO QR CODE			
Micro QR Code Enable / Disable	Disable		204
Micro QR Code Length Control	Variable		204

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER
Micro QR Code Set Length 1	1 character		205
Micro QR Code Set Length 2	0035 characters		205
UCC COMPOSITE			
UCC Optional Composite Timer	70 msec		206
Postal Code Selection	Disable All Postal Codes		207
Postnet BB Control	Disable		208
OCR DECODING			
OCR Decoding Predefined Templates	Disable OCR Function		211
POWER MANAGEMENT			
Powerdown Timeout	30 minutes		213
Battery Profiles	Maximum Performance		214
WIRELESS FEATURES			
Good Transmission Beep	Enable		217
Beeper Frequency	Low		217
Beep Duration	80 msec		218
Beep Volume	High		219
Disconnect Beep	Enable		219
Leash Alarm	Disable		220
Automatic Configuration Update	Enable		222
Batch Mode	Disable		223
RF Batch Mode Transmit Delay	No delay		224
Direct Radio Autolink	Unlink Label Required		225
Source Radio Address Transmission	Do not include		226
Source Radio Address Delimiter Character	00 (no delimiter character)		226
Bluetooth Security Level	Level 1 - lowest		227
Wi-Fi Channels Exclusion	Automatic		229
Bluetooth Discoverable Mode Time- out	3 minutes		234
Bluetooth Friendly Name	CODISCAN HS7600 [SERI- AL_NUMBER_SCANNER]		235

PARAMETERS	DEFAULT	YOUR SETTING	PAGE NUMBER
Bluetooth HID Alt Mode	OFF		236

DEFAULT EXCEPTIONS

Table 27 - Default Exceptions by Interface Type

PARAMETER	DEFAULT EXCEPTION
Interfaces: USB-0EM	
Global Suffix	No Global Suffix
Double Read Timeout	500 msec
Interfaces: All Keyboard, USB Keyboard	
No unique settings	

APPENDIX C SAMPLE BARCODES

The sample bar codes in this appendix are typical representations for their symbology types.

SAMPLE BARCODES

1D Barcodes

UPC-A



EAN-13



Code 39



Code 128



Interleaved 2 of 5



Code 32



B9P91Q

Codabar



Code 93



Code 11



GS1 Databar™ (RSS)

GS1 DataBar[™] variants must be enabled to read the barcodes below (see "GS1 DataBar[™] Omnidirectional" on page 113).

GS1 DataBar™ Expanded Stacked



10293847560192837465019283746029478450366523

GS1 DataBar™ Expanded



1234890hjio9900mnb

GS1 DataBar™ Limited

08672345650916

GS1 Databar™ (-14)

GS1 DataBar™ Omnidirectional Truncated

55432198673467

GS1 DataBar™ Omnidirectional Stacked

90876523412674

GS1 DataBar™ Omnidirectional Stacked



292 CODISCAN™ HS7600

OIDOJATACOGIC

2D Barcodes

Aztec



Data Matrix



China Sensible



MaxiCode



PDF417



Micro PDF 417



QR Code



2D Barcodes (continued)

Micro QR Code



123456

UCC Composite





APPENDIX D KEYPAD

Use the bar codes in this appendix to enter numbers as you would select digits/characters from a keypad.











F











4



6



8



APPENDIX E SCANCODE TABLES

CONTROL CHARACTER EMULATION

Control character emulation selects from different scancode tables as listed in this appendix. Each of the control character sets below are detailed by interface type in the tables. These apply to USB Keyboard platforms.

Control Character 00 : Characters from 00 to 0x1F are sent as control character Ctrl+Keys, special keys are located from 0x80 to 0xA1.

Control Character 01 : Characters from 00 to 0x1F are sent as control character Ctrl+Capital Key, special keys are located from 0x80 to 0xA1.

Control Character 02 : Special keys are located from 00 to 0x1F and characters from 0x80 to 0xFE are intended as an extended ASCII table (Microsoft Windows Codepage 1252 — see page 305).

Single Press and Release Keys

In the following tables, Ar↓ means Alt right pressed and Ar↑ means Alt right released and so on. Definitions for other keys are Al (Alt left), Cr (Control Right) Cl (Control Left) Sh (shift). This method can be used for combining Alt, Control or Shift with other keys.

Example: Consider a Control character set to 00. If AltRight+A is required before sending a label to the host, it could be done by setting three Prefix keys in this way: 0x99 0x41 0x9A.

INTERFACE TYPE USB-KEYBOARD OR USB-KEYBOARD FOR APPLE

Table 28. Scancode Set When Control Character is 00 or 01

хF	SI C(S)+O	US C(S)+_	/	ż	0	I	0	Del	F11	Cr (?	Ï	ß	ï	ÿ
¥	SO C(S)+N	RS C+^		^	Z	<	u	٤	F10	CI↑	Ð	3/4	Î	Ą	î	þ
С× С	CR Enter	GS C+]	ı		Μ]	ш	~	F9	CI (~	1/2	Í	Ý	í	ý
×C	FF C(S)+L	FS C+\	ŕ	V	Г	/	1		F8	Al↑	\$,	1/4	Ì	Ü	ì	ü
хB	VT C(S)+K	ESC Esc	+	••	K		k	~	F7	ΊI	~	*	÷Ц	Û	ë	û
ХA	LF C(S)+J	SUB C(S)+Z	*		ſ	Z	Ĺ	z	F6	År↑	N,	0	Ψ	Ú	ê	ú
6X	HT TAB	EM C(S)+Y	(6	Ι	Υ	1.	у	F5	Arţ	00%	I	Ψ	Ù	ć,	ù
x8	BS	CAN CAN)	8	Η	Х	ų	x	F4	↑	٢	۶	Ψ	Ø	è	Ø
X7	BEL C(S)+G	ETB C(S)+W	-	7	IJ	M	60	M	E3	♦	++		Ç	×	ć	·ŀ·
X6	ACK C(S)+F	SYN C(S)+V	Å	9	Ч	Λ	f	Λ	F2	Ŷ	÷	ŀ	${\cal R}$	Ö	æ	ö
x5	ENQ C(S)+E	NAK C(S)+U	%	5	Е	U	e	n	F1	÷	:	ή	Å	Õ	å	õ
x4	EOT C(S)+D	DC4 C(S)+T	S	4	D	Т	q	t	Ent (keyp)	Pg Dwn	r		Ä	Ô	ä	ô
x3	ETX C(S)+C	DC3 C(S)+S	#	3	C	s	э	s	Ins	Pg Up	f	3	Ã	Ó	ã	ó
x2	STX C(S)+B	DC2 C(S)+R	=	2	в	К	q	r	∫h?	End	y	2	Â	Ó	â	ò
×1	SOH C(S)+A	DC1 C(S)+Q		1	Α	o	а	d	ţhĮ	Home		Ŧ	Á		á	ñ
0X	NULL C+@	DLE C(S)+P	SP	0	Ø	Р		d	£	F12	Cr↑	0	À	Ð	à	ð
	ŏ	1×	2x	3X	4x	5x	6X	7×	8x	3X	Ax	BX	ŏ	DX	Ĕ	FX



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INTERFACE TYPE USB-KEYBOARD OR USB-KEYBOARD FOR APPLE (CONTINUED)

Table 29. Scancode Set When Control Character is 02

×F	Pg Up	F10	/	ż	0		0	Del		Ϋ́	I	?	Ï	ß	ï	ÿ
×E	lns	F9		Λ	Z	<	ц	٢	Ð	Ň	8	3/4	Ĵ	ф	î	þ
ŌX	Enter	F8	I	11	М	_	ш	~	*		I	1/2	Í	Ý	í	ý
× C	Enter Keypd	F7	•	V	L	1	1	_	S,	в	ſ	1/4	Ì	Ü	ì	ü
хB	S+ Tab	ESC	+	••	К		k	~	~	^	×	*	÷Ц	Û	:O	û
ХA	↑	F5	*		J	Z	.ť	z	Ň	NX<	a	o	ЧÌ	Ú	ê	ú
x9	Tab	F4		6	I	Υ	1.	у	%00	TM	O	-	ΥÜ	Ù	é	ù
x8	BS	F3	<i></i>	8	Н	х	Ч	x	¢	ł	:	ň	чЦ	Ø	é	ø
×7	Cr ↑	F2	v	7	G	M	ත	M	++		s		Ç	×	°,	·ŀ·
X6	Cr↓	F1	ş	9	ц	v	f	v	+	I		-	Æ	Ö	я	ö
x5	CI↓	F6	%	5	щ	n	э	n	:	•	¥	н	Å	Õ	a,	õ
X4	ci↓	÷	s	4	D	Τ	р	t	£	ŗ	¤		Ä	Ô	ы:	ô
x3	AI↑	÷	#	ю	C	s	с	s	f	3	£	e	Ã	Ó	ũ	ó
x2	AI↓	\checkmark	"	2	В	R	q	ŗ	v	r.	æ	2	Â	,Ō	â	ò
×1	Ar†	Home		-	А	o	а	в		3		н	Á		á	ñ
0×	Arţ	Pg Dwn	Space	0	٩	Р		d	£		NBSP	0	À	Ð	à	ð
	XO	1×	2x	3x	4x	5x	6X	7×	8x	9x	Ax	Bx	ŏ	Ď	Ĕ	Fx

10DE	
ALT	
30ARD	
-KEYE	
E USB	
E TYP	
ERFAC	
IN	

Table 30. Scancode Set When Control Character is 00 or 01

Xf	Alt+015	Alt+031	A+047	A+063	A+079	A+095	A+111	A+127	F11	$\operatorname{Cr}\downarrow$	A+0175	A+0191	A+0207	A+0223	A+0239	A+0255
хE	Alt+014	Alt+030	A+046	A+062	A+078	A+094	A+110	A+126	F10	CI ↑	A+0174	A+0190	A+0206	A+0222	A+0238	A+0254
QX	CR Enter	Alt+029	A+045	A+061	A+077	A+093	A+109	A+125	F9	CI (A+0173	A+0189	A+0205	A+0221	A+0237	A+0253
×	Alt+012	Alt+028	A+044	A+060	A+076	A+092	A+108	A+124	F8	AI↑	A+0172	A+0188	A+0204	A+0220	A+0236	A+052
хВ	Alt+011	ESC Esc	A+043	A+059	A+075	A^{+091}	A+107	A+123	F7	ΥI	A+0171	A+0187	A+0203	A+0219	A+0235	A+0251
ХA	Alt+010	Alt+026	A+042	A+058	A+074	A+090	A+106	A+122	F6	Ar↑	A+0170	A+0186	A+0202	A+0218	A+0234	A+0250
6X	HT TAB	Alt+025	A+041	A+057	A+073	A+089	A+105	A+121	F5	Arţ	A+0169	A+0185	A+0201	A+0217	A+0233	A+0249
x8	BS	Alt+024	A+040	A+056	A+072	A^{+088}	A+104	A+120	F4	↑	A+0168	A+0184	A+0200	A+0216	A+0232	A+0248
X7	Alt+007	Alt+023	A+039	A+055	A^{+071}	A^{+087}	A+103	A+119	F3	\checkmark	A+0167	A+0183	A+0199	A+0215	A+0231	A+0247
X6	Alt+006	Alt+022	A+038	A+054	A^{+070}	A+086	A+102	A+118	F2	÷	A+0166	A+0182	A+0198	A+0214	A+0230	A+0246
x5	Alt+005	Alt+021	A^{+037}	A+053	A+069	A+085	A^{+101}	A+117	F1	÷	A+0165	A+0181	A+0197	A+0213	A+0229	A+0245
X4	Alt+004	Alt+020	A+036	A+052	A+068	A+084	A^{+100}	A+116	Ent (keyp)	Pg Dwn	A+0164	A+0180	A+0196	A+0212	A+0228	A+0244
x3	Alt+003	Alt+019	A+035	A+051	A+067	A+083	A+099	A+115	Ins	Pg Up	A+0163	A+0179	A+0195	A+0211	A+0227	A+0243
x2	Alt+002	Alt+018	A+034	A+050	A+066	A+082	A+098	A+114	Sh↑	End	A+0162	A+0178	A+0194	A+0210	A+0226	A+0242
X1	Alt+001	Alt+017	A+033	A+049	A+065	A+081	A+097	A+113	Shţ	Home	A+0161	A+0177	A+0193	A+0209	A+0225	A+0241
0X	Alt+000	Alt+016	A+032	A+048	A+064	A^{+080}	A+096	A+112	e	F12	$\operatorname{Cr} \uparrow$	A+0176	A+0192	A+0208	A+0224	A+0240
	0×	1×	2x	3х	4X	5х	бх	7×	8x	9х	AX	Bx	CX	DX	EX	Fx



INTERFACE TYPE USB-KEYBOARD ALT MODE (CONTINUED)

Table 31. Scancode Set When Control Character is 02

хF	Pg Up	F10	A+047	A+063	A+079	A+095	A+111	A+127	A+0143	A+0159	A+0175	A+0191	A+0207	A+0223	A+0239	A+0255
ХE	sul	F9	A+046	A+062	A+078	A+094	A+110	A+126	A+0142	A+0158	A+0174	A+0190	A+0206	A+0222	A+0238	A+0254
XD	Enter	F8	A+045	A+061	A+077	A+093	A+109	A+125	A+0141	A+0157	A+0173	A+0189	A+0205	A+0221	A+0237	A+0253
×C	Enter Keypd	F7	A+044	A+060	A+076	A+092	A+108	A+124	A+0140	A+0156	A+0172	A+0188	A+0204	A+0220	A+0236	A+052
хB	S+ Tab	ESC	A+043	A+059	A+075	A^{+091}	A+107	A+123	A+0139	A+0155	A+0171	A+0187	A+0203	A+0219	A+0235	A+0251
٧X	↑	F5	A+042	A+058	A+074	A+090	A+106	A+122	A+0138	A+0154	A+0170	A+0186	A+0202	A+0218	A+0234	A+0250
6X	Tab	F4	A+041	A+057	A+073	A+089	A+105	A+121	A+0137	A+0153	A+0169	A+0185	A+0201	A+0217	A+0233	A+0249
x8	BS	F3	A+040	A+056	A+072	A+088	A+104	A+120	A+0136	A+0152	A+0168	A+0184	A+0200	A+0216	A+0232	A+0248
۲×	Cr↑	F2	A+039	A+055	A+071	A+087	A+103	A+119	A+0135	A+0151	A+0167	A+0183	A+0199	A+0215	A+0231	A+0247
9X	Cr↓	F1	A+038	A+054	A+070	A+086	A+102	A+118	A+0134	A+0150	A+0166	A+0182	A+0198	A+0214	A+0230	A+0246
x5	CI↓	F6	A+037	A+053	A+069	A+085	A+101	A+117	A+0133	A+0149	A+0165	A+0181	A+0197	A+0213	A+0229	A+0245
x4	CI↑	÷	A+036	A+052	A+068	A+084	A+100	A+116	A+0132	A+0148	A+0164	A+0180	A+0196	A+0212	A+0228	A+0244
x3	AI↑	÷	A+035	A+051	A+067	A+083	A+099	A+115	A+0131	A+0147	A+0163	A+0179	A+0195	A+0211	A+0227	A+0243
x2	AIĻ	→	A+034	A+050	A+066	A+082	A+098	A+114	A+0130	A+0146	A+0162	A+0178	A+0194	A+0210	A+0226	A+0242
×1	Ar↑	Home	A+033	A+049	A+065	A^{+081}	A+097	A+113	A+0129	A+0145	A+0161	A+0177	A+0193	A+0209	A+0225	A+0241
0×	Arţ	Pg Dwn	A+032	A+048	A+064	A+080	A+096	A+112	A+0128	A+0144	A+0160	A+0176	A+0192	A+0208	A+0224	A+0240
	0X	1x	2x	3x	4X	5х	бх	7×	8x	9x	AX	Bx	č	DX	Ex	FX

ш
U
4
LL [®]
2
ш
Ζ
2
G
5

Table 32. Scancode Set When Control Character is 00 or 01

	0X	×1	x2	x3	X4	x5	x6	X7	x8	6x	ХA	хB	Š	ð	ХE	хF
0X	NULL C+@	SOH C(S)+A	STX C(S)+B	ETX C(S)+C	EOT C+D	ENQ C(S)+E	ACK C(S)+F	BEL C(S)+G	BS	HT TAB	LF C(S)+J	VT C(S)+K	FF C(S)+L	CR Enter	SO C(S)+N	SI C(S)+O
1×	DLE C(S)+P	DC1 C(S)+Q	DC2 C(S)+R	DC3 C(S)+S	DC4 C(S)+T	NAK C(S)+U	SYN C(S)+V	ETB C(S)+W	CAN C(S)+X	EM C(S)+Y	SUB C(S)+Z	ESC Esc	FS C(S)+\	GS C+]	RS C(S)+^	US C(S)+_
2x	Space		"	#	\$	%	Sr.	,)	(*	+	<i>`</i>	I	•	/
3x	0	1	2	3	4	5	9	7	8	6		••	V	11	^	ż
4X	<i>(</i> b)	Α	В	С	D	н	ц	G	Н	I	ſ	K	L	М	Z	0
5x	Ь	0	R	s	Т	n	Λ	M	х	Υ	Z	_	1		<	I
6X		а	q	c	q	e	f	8	h	i	į	k	1	ш	u	0
7x	d	Ь	r	S	t	n	v	M	х	у	z	}		{	٤	Del
8X		Shţ	Sh↑	Ins	Ent (keyp)	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11
9x	F12	F13	F14	F15	F16	÷	÷	→	↑					CI (CI↑	
Table 33.	Scancode S	set When C	ontrol Chai	racter is 02												

			1					
хF		F10	/	ż	0	I	0	Del
ж	Ins	F9		^	Z	<	u	ł
QX	Enter	F8	I	=	Μ	[ш	{
×C	Enter Keypd	F7	•	V	L	1	I	
хВ	S+ Tab	ESC	+	•	К]	k	}
ХA	à	F5	*		J	Z	j	z
6x	Tab	F4	(6	I	γ	i	у
x8	BS	F3)	8	Н	Х	h	х
x7		F2	v	7	G	M	50	м
x6		F1	Å	6	F	Λ	f	v
x5	CI ↑	F6	%	5	Е	n	e	n
X4	CI †	÷	\$	4	D	Τ	р	1
x3		÷	#	3	С	S	с	s
x2		\checkmark	"	2	В	R	q	r
×1				1	A	ð	а	Ь
0X			Space	0	ø	Ч		d
	0X	1×	2x	3x	4x	5X	6x	7×

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Table 34. Scancode Set When Control Character is 00 or 01

	0X	, X	2x	3x	4×	5x	бх	7×	8x	9x	AX
0X	NULL C+@	DLE C(S)+P	Space	0	ø	Р	3	b		F12	$\operatorname{Cr} \uparrow$
×1	SOH C(S)+A	DC1 C(S)+Q		1	A	0	а	в	Shţ	Enter	
x2	STX C(S)+B	DC2 C(S)+R	"	2	В	R	В	R	Sh↑	Reset	
x3	ETX C(S)+C	DC3 C(S)+S	#	3	С	s	c	s	Ins	Insert	
X4	EOT C+D	DC4 C(S)+T	÷	4	D	Т	q	t	Ent (keyp)	Delete	
x5	ENQ C(S)+E	NAK C(S)+U	%	5	Е	U	о	n	F1	Field -	
X6	ACK C(S)+F	SYN C(S)+V	&	6	Н	Λ	f	v	F2	Field +	
۲X	BEL C(S)+G	ETB C(S)+W	,	7	G	M	ac	м	F3	Enter paddle	
x8	BS	CAN C(S)+X)	8	Н	Х	h	x	F4	Printl	
6X	HT TAB	EM C(S)+Y	(6	I	Υ	1.	y	F5	Arţ	
ХA	LF C(S)+J	SUB C(S)+Z	*		ſ	Z	j	z	F6	År↑	
хB	VT C(S)+K	ESC Esc	+	••	K		k	~	F7	Alţ	
xC	FF C(S)+L	FS C(S)+\	•	V	L	/	1	_	F8	AI †	
QX	CR Enter	GS C+]	ı	Π	Μ	_	н	~	F9	CI (
хE	SO C(S)+N	RS C(S)+^		٨	Z	<	u		F10	¢1 ↓	
ЧX	SI C(S)+O	US C(S)+_	/	i	0	I	0	Del	F11	Cr ↓	

Table 35. Scancode Set When Control Character is 02

×F	dU gA	F10	/	i	0	—	0	Del
НX	lns	F9		^	N	<	u	
QX	Enter	F8	-	=	Μ	[ш	~
×C	Enter Keypd	F7	4	>	Т	١	Ι	
хВ	S+ Tab	ESC	+	:	Х]	y	}
хA	Ŷ	F5	*		ſ	Z	ĺ	z
6X	Tab	F4	(6	Ι	А	i	у
x8	BS	F3)	8	Н	Х	h	х
X7	Cr↑	F2	,	L	Ð	M	3	M
х6	Cr↓	F1	R	9	Ч	Λ	J	Λ
x5	CI↑	F6	%	2	Е	N	Э	n
x4	CI↑	÷	\$	4	D	Т	q	t
x3	AI↑	Ŷ	#	3	С	S	с	S
x2	AIĻ	\rightarrow	"	2	В	R	В	R
×1	Ar↑	Home	÷	1	V	ð	e	Ь
0X	Ar↓	Pg Dwn	Space	0	(a)	Ч	,	d
	хo	1×	2x	3х	4x	5x	бх	7×

IBM XT

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хF	SI C(S)+O	US C(S)+_	/	ż	0	I	0	Del	F11	Cr↓	
ж	SO C(S)+N	RS C(S)+^		^	Z	<	u		F10	CI↑	
С Х	CR Enter	GS C+]		=	М]	m	{	F9	CI (
×C	FF C(S)+L	FS C(S)+\	ŕ	V	L	1	1	_	F8	AI↑	
хB	VT C(S)+K	ESC Esc	+	••	K		k	}	F7	AIL	
ХA	LF C(S)+J	SUB C(S)+Z	*		J	Z	j	z	F6	Ar↑	
6x	HT TAB	EM C(S)+Y	(6	I	Υ	1	у	F5	Arţ	
X8	BS C(S)+H	CAN C(S)+X)	8	Н	Х	h	х	F4	↑	
X7	BEL C(S)+G	ETB C(S)+W	ų	7	U	M	ω	m	F3	\checkmark	
хб	ACK C(S)+F	SYN C(S)+V	&	6	ц	Λ	f	Λ	F2	÷	
x5	ENQ C(S)+E	NAK C(S)+U	%	5	Щ	U	e	n	F1	÷	
x4	EOT C+D	DC4 C(S)+T	s	4	D	Т	р	t	Ent (keyp)	Pg Dwn	
x3	ETX C(S)+C	DC3 C(S)+S	#	3	С	S	c	s	Ins	Pg Up	
x2	STX C(S)+B	DC2 C(S)+R	"	2	в	R	в	R	Sh↑	End	
x1	SOH C(S)+A	DC1 C(S)+Q		1	Υ	0	а	Ь	Sh.	Home	
0X	NULL C+@	DLE C(S)+P	Space	0	Ø	Р	v	d		F12	$\operatorname{Cr} \uparrow$
	0×0	1×	2x	3x	4X	5X	6x	7x	8x	9x	Ax

Table 37. Scancode Set when Control Character 02

ΥF	Pg Up	F10	/	ż	0	Ι	0	Del
Ж	Ins	F9	•	^	N	<	u	
QX	Enter	F8	-	=	Μ	[ш	{
×	Enter Keypd	F7	4	V	L	/	1	_
хВ	S+ Tab	ESC	+	:	Х]	y	}
хA	¢	F5	*		ſ	Z	ĺ	z
6X	Tab	F4	(6	Ι	λ	i	у
x8	BS	F3)	8	Η	Х	h	х
X7	Cr↑	F2	,	7	G	M	8	w
хб	Cr ↓	F1	&	9	F	Λ	f	v
×5	CI↑	F6	%	5	Е	U	e	n
x4	CI (÷	\$	4	D	Т	q	t
×3	Al↑	÷	#	3	С	S	с	S
x2	AIĻ	\checkmark	"	2	В	R	В	R
×1	År↑	Home		1	V	ð	в	Ь
0X	Ar↓	Pg Dwn	Space	0	<i>(a</i>)	Р	,	d
	0X	1×	2X	3X	4x	5x	бх	7x

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Windows-1252 is a character encoding of the Latin alphabet, used by default in the legacy components of Microsoft Windows in English and some other Western languages.

	00	01	02	03	04	05	06	07	08	09	0A	OB	00	OD	OE	0F
00	<u>NUL</u> 0000	<u>STX</u> 0001	<u>SOT</u> 2000	ETX 0003	<u>E DT</u> 0004	ENQ 0005	<u>ACK</u> 0006	BEL 0007	<u>BS</u> 0008	HT 0009	<u>11</u> A000	$\frac{TY}{8000}$	EF 000D	<u>CR</u> 000D	<u>SD</u> 000E	<u>SI</u> 000F
10	<u>DLE</u> 0010	<u>DC1</u> 0011	<u>D C2</u> 0012	<u>DC3</u> 0010	<u>DC4</u> 0014	<u>NAK</u> 0015	<u>SYN</u> DOIS	<u>ETB</u> 0017	<u>CAN</u> 0018	<u>ЕМ</u> 0019	<u>SUB</u> 001A	<u>esc</u> ode	<u>FS</u> 0010	<u>65</u> 1010	<u>RS</u> 001E	<u>US</u> 001F
20	<u>SP</u> 0020	1 0021	" 0022	# 0023	Ş 0024	ଞ 0025	& 0026	7 0027	(0028) 0029	* 002A	+ 002B	0020	- 002D	002E	/ 002F
30	0 0030	1 0031	2 0032	3 0033	4 0034	5 0035	6 0036	7 0037	8 0038	9 0039	; 003A	; 003B	< 003D	= 003D	> 003E	2 003F
40	@ 0040	A 0041	B 0042	C 1043	D 0044	E 0045	E 0046	G 0047	H 0048	I 0049	J 104A	K 004B	L 004D	M 004D	N 004E	O DOAF
50	P 0050	Q 0051	R 0052	S 0053	T 0054	U 0055	V 0056	छ 0057	X 0058	Y 0059	Z DOSA	[0058	्र 0050] 005D	^ 005E	DOSE
60	، 0060	a. 0061	b aasz	C 0063	d 0064	e 0065	f 0056	g 0067	h DOGS	i 0069	ј 106А	k oose	1 006⊡	m oose	n 006E	0 006F
70	р 0070	역 0071	r 0072	3 0073	t 0074	น 0075	V 0076	W 0077	X 0078	У 0079	Z 007A	{ 007B	 007E	} 007D	~ 007E	<u>DEL</u> 007F
80	€ 20AC		r 201A	f onse	.v 201E	 2026	† 2020	‡ 2021	- 0205	ំង 2030	Š 0160	< 2039	Œ 0162		Ž 07D	
90		ו 2018	7 2019	* 2010	201D	• 2022	 2013	 2014		354 2122	ğ Olel	> 203A	08 0153		芝 077E	Ϋ 0178
A 0	NBSP DOAD	Î 0041	¢ 00A2	£ 004.3	00,A4	¥	do A 6	S 00A7	 004.8	© 00AS	а. 004.6	《 00AB		- 00AD		
во	00B0	± 0081	z 00B2	00B3 2	- 00B4	µ mes	E aeod	00B7	0088	1 00E9	O ODBA	» 0068	3≰ 0080	생 008D	*≰ 0085	င် ODBF
co	Д	Á 00C1	Å 0002	Å 00C3	Ă 00C4	Å	A aoce	Ç 00C7	È	É	Ê ODCA	Ë	Ì DOCC	Í ODED	Î OCE	Í ODCF
ро	Ð	អ៊ ៣០1	Ó mre	Ó 0003	Ô MD4	Ő 1005	Ŭ attop	× 00D7	Ø	Ú епо	Ú MDA	Ú MDB	11 10000	Ý	B CODE	ß
EO	à DOE0	á. 00E1	â 00E2	á 0050	ä. 00E4	å D0E5	œ	Ç QIE7	è ODE8	é	ê 00EA	ë	ì	1 00ED	Î	Ĩ DOEF
FO	ð DOF0	бі 00F1	ò 00F2	6 00F3	0 00F4	Ő D0F5	Ö 00F6	÷ 00F7	20 00F8	ù 00F9	ú ODEA	û 00FB	ü DOFD	ý	þ 00FE	<u>ÿ</u> DOFF

APPENDIX F ASCII CHART

ASCII Char.	Hex No.	ASCII Char.	Hex No.	ASCII Char.	Hex No.	ASCII Char.	Hex No.
NUU	00	CD	20		(0	4	(0
NUL	00	SP	20	a A	40	-	60
SUH	01	!	21	A	41	a	01
	02	щ	22	В	42	a	02
	03	# ¢	23		43	C d	03
	04	ب ۵۷	24		44	u	04 (E
	00	70 S	20		45	e f	65
	00	ά,	20 27	Г С	40	I a	00 47
	07	(27	U U	47	y h	07 49
ЫТ	00		20		40	;	00 40
	07) *	27		47 /. A	i	07 4 A
	0A 0B	<u>т</u>	2A 2B	J K	4A //B] k	6A 6
	00	т	20		4D 7.0	N I	40
		,	20	M	40 40	ι m	
SO	0D 0E	-	2D 2E	N	4D //E	n	60 6
50		•	2E 2E	0	4C //F	0	6E
	10	0	30	P	50	n	70
DC1	11	1	31	0 0	51	n D	70
DC2	12	2	32	R	52	ч r	72
DC3	13	3	33	S	53	s	73
DC4	14	4	34	Т	54	t	74
NAK	15	5	35	U	55	u	75
SYN	16	6	36	V	56	V	76
ETB	17	7	37	W	57	W	77
CAN	18	8	38	Х	58	х	78
EM	19	9	39	Y	59	V	79
SUB	1A	:	3A	Z	5A	Z	7A
ESC	1B	2	3B	[5B	{	7B
FS	1C	<	3C	\	5C		7C
GS	1D	=	3D]	5D	}	7D
RS	1E	>	3E	^	5E	~	7E
US	1F	?	3F	_	5F	DEL	7F
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