NLS-HR15 Series

NLS-HR1550-30

Corded 1D Barcode Scanner

User Guide

Disclaimer

Please read through the manual carefully before using the product and operate it according to the manual. It is advised that you should keep this manual for future reference.

Do not disassemble the device or remove the seal label from the device. Otherwise, FuJian Newland Auto-ID Tech. Co., Ltd. does not assume responsibility for the warranty or replacement.

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Revision History

Version	Description	Date
V1.0	Initial release.	December 25, 2011
V1.1	Moved the Enter/Exit Setup barcodes to page header and footer.	August 10, 2012
V1.2	Updates: 1. Added the Timeout between Decodes (Same Barcode) programming feature for the Sense and Continuous modes. 2. Added PDF417 and MicroPDF417 sample barcodes in Chapter 6.	MARCH 19, 2013

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Preface

Introduction

This manual provides detailed instructions for setting up and using the NLS-HR15 series corded 1D barcode scanner NLS-HR1550-30 (hereinafter referred to as **“HR15 corded scanner”** or **“the scanner”**).

Chapter Description

- ✧ *Chapter 1,Getting Started* : This chapter gives a general description of HR15 corded scanner including its technical parameters.
- ✧ *Chapter 2, General Settings* : This chapter introduces two methods to configure the HR15 corded scanner: barcode programming and command programming.
- ✧ *Chapter 3, Inquiry Command* : This chapter describes how to obtain the information of HR15 corded scanner by scanning programming barcodes.
- ✧ *Chapter 4, Communication Settings* : This chapter describes how to configure serial port parameters and USB function.
- ✧ *Chapter 5, Data Formatting* : This chapter describes how to use prefix and suffix to customize scanned data.
- ✧ *Chapter 6, Symbologies* : This chapter lists all compatible symbologies and describes how to configure the relevant parameters.
- ✧ *Chapter 7, Appendix* : This chapter offers default parameters tables and a bunch of frequently used programming barcodes.

Document Set

The documentation set for the HR15 corded scanner provides information for specific user needs and includes:

NLS-HR1550-30 Quick Start Guide	Describes how to get the HR15 corded scanner up and running, and introduces some basic operations.
NLS-HR1550-30 User Guide	Describes how to use and set the HR15 corded scanner.
1D Barcode Scanner Firmware Update Utility User Guide	Describes how to update the firmware in 1D barcode scanners with this tool developed by Newland.
EzSet123 Scanner Configuration Utility User Guide	Describes how to configure scanners with this tool developed by Newland.

Chapter 1 Getting Started

Introduction

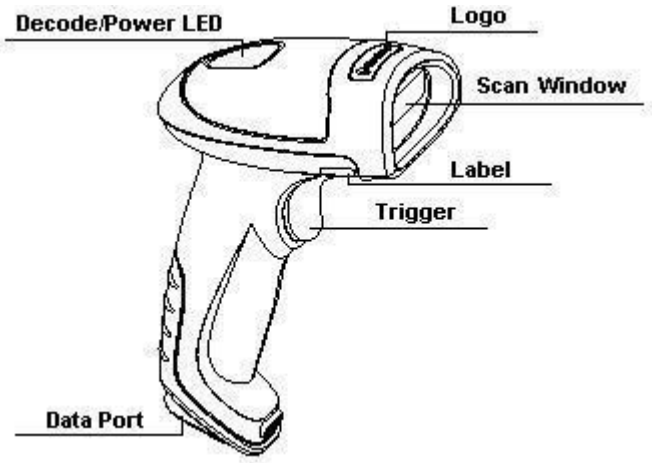
HR15 corded scanner is a 1D barcode scanner with excellent performance. Besides all common 1D symbologies, it can also read 2D stacked symbologies such as PDF417 and MicroPDF417. Based on the UIMG™ technology independently developed by Newland, HR15 corded scanner is able to deliver rapid image acquisition and accurate decoding; it can provide customers with best services. HR15 corded scanner boasts the ergonomical design that ensures easy and comfortable operation.

An illustrated introduction to the HR15 corded scanner is included in this chapter. If you have an HR15 device at hand, make good use of it to develop a better understanding of this manual. This chapter is written for normal users, maintenance staff and software developers.

Unpacking

Open the package and take out HR15 corded scanner and its accessories. Check to make sure everything on the packing list is present and intact. If any contents are damaged or missing, please keep the original package and contact your dealer immediately for after-sale service.

Scanner



Decode/Power LED Definitions:

Red : The device is powered on

Green: Barcode is decoded successfully

Fig. 1-1

Data Port

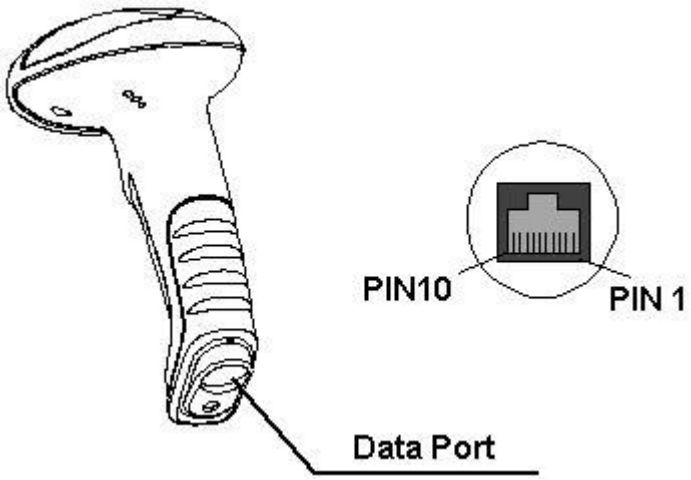


Fig. 1-2

Data port pinout 1 (factory default):

PIN	Definition	Type	Description
1	NC	-	Not connected
2	NC	-	Not connected
3	VCC	P	Power+ (+5V)
4	TXD	O	RS-232 Output
5	RXD	I	RS-232 Input
6	CTS	I	Flow control signal
7	RTS	O	
8	GND	P	Ground
9	D-	I/O	USB signal
10	D+	I/O	

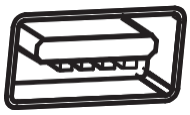
Data port pinout 2:

PIN	Definition	Type	Description
1	CLK1	I/O	Keyboard clock signal
2	DATA1	I/O	Keyboard data signal
3	VCC	P	Power+ (+5V)
4	TXD	O	RS-232 Output
5	RXD	I	RS-232 Input
6	CLK2	I/O	PC clock signal
7	DATA2	I/O	PC keyboard signal
8	GND	P	Ground
9	D-	I/O	USB signal
10	D+	I/O	

Connect HR15 to a Host

HR15 corded scanner must be connected to a host device in actual application, such as PC, POS or any intelligent terminal with USB or RS-232 or PS/2 port, using a communication cable (USB or RS-232 or PS/2 cable).

- USB



USB port on the host

- RS-232

RS-232 port on the host

- PS/2

PS/2 port on the host

Note: Please check the port on the host and purchase the right cable.

Use USB Cable

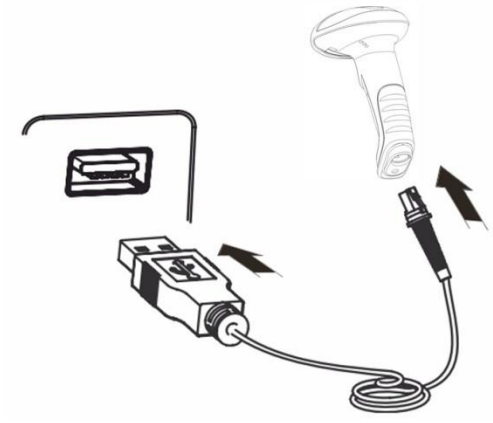


Fig. 1-3

Connect HR15 corded scanner to a Host through a USB cable with RJ45 and USB connectors:

1. Plug the RJ45 connector into the data port (see Fig.1-1) on the scanner.
2. Plug the USB connector into the USB port on the Host.

Use RS-232 Cable

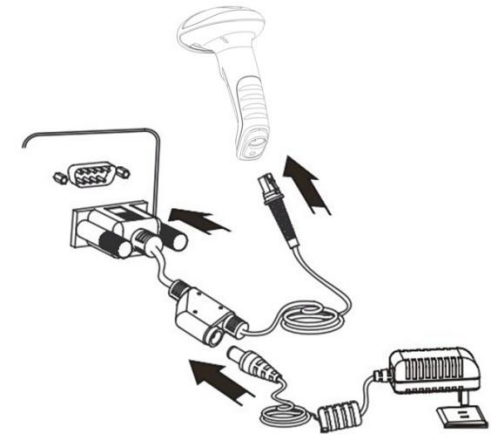


Fig. 1-4

Connect HR15 corded scanner to a Host through an RS-232 cable with RJ45/RS-232 connectors and a power jack:

1. Plug the RJ45 connector into the data port (see Fig.1-1) on the scanner.
2. Plug the RS-232 connector into the RS-232 port on the Host.
3. Plug the power adapter into the power jack.

Use PS/2 Cable

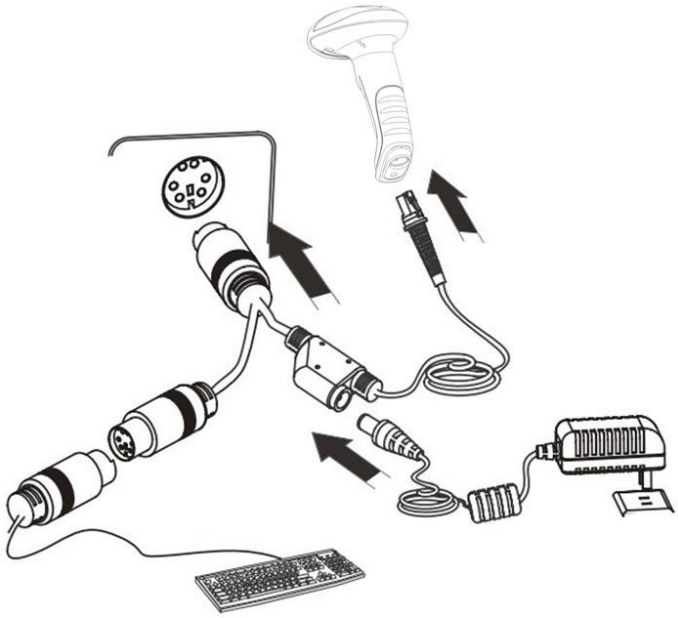


Fig. 1-5

Connect HR15 corded scanner to a Host through a PS/2 cable equipped with PS/2 and RJ45 connectors, PS/2 female socket and power jack (Only applicable to HR1550-33):

1. Plug the RJ45 connector into the data port (see Fig.1-1) on the scanner.
2. Plug the PS/2 connector into the PS/2 port on the Host.
3. If necessary, plug the power adapter into the power jack on the PS/2 cable.
4. If necessary, plug the keyboard into the PS/2 female socket on the cable.

Remove Communication Cable

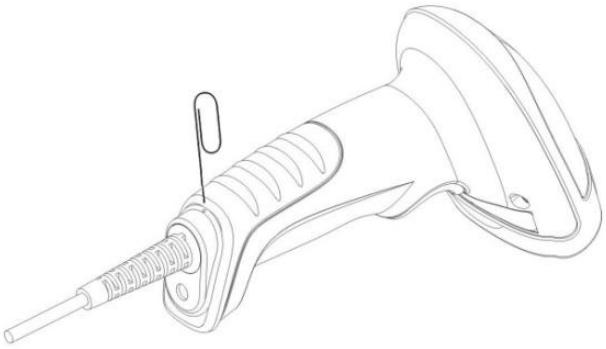


Fig. 1-6

Get an appropriate needle or a straightened paper clip and then follow the steps below:

1. Disconnect the power adapter from mains and the scanner if there is one.
2. Insert the needle into the disassemble hole (Fig. 1-6).
3. Pull out the cable slowly from the scanner while pressing the needle in. Then remove the needle.
4. Disconnect the cable from the Host.

Power on, Power off, Sleep, Reboot

Power on the scanner

Connect the scanner to a host device. Then the scanner will be turned on and automatically go into sleep mode.

Power off the scanner

There are four ways to turn off the scanner:

- Remove the cable from the scanner.
- Remove the cable from the host device.
- Disconnect the power adapter from mains or the scanner.
- Scan the **Power Off** barcode (See the **"Operating Mode Options"** section in Chapter 2).

Enter the sleep mode

If no operation is performed on the scanner for some time, the scanner will automatically enter the sleep state.

Reboot the scanner

If the scanner stops responding to input or runs abnormally, disconnect the scanner from the host device and then reconnect it.

Maintenance

- ✧ The scan window should be kept clean.
- ✧ Do not scratch the scan window of the device.
- ✧ Use soft brush to remove the stain from the scan window.
- ✧ Use the soft cloth to clean the window, such as eyeglass cleaning cloth.
- ✧ Do not spray any liquid on the scan window.
- ✧ Clean other parts of the device with water only.

Note: The warranty **DOES NOT** cover damages caused by inappropriate care and maintenance.

Depth of Field

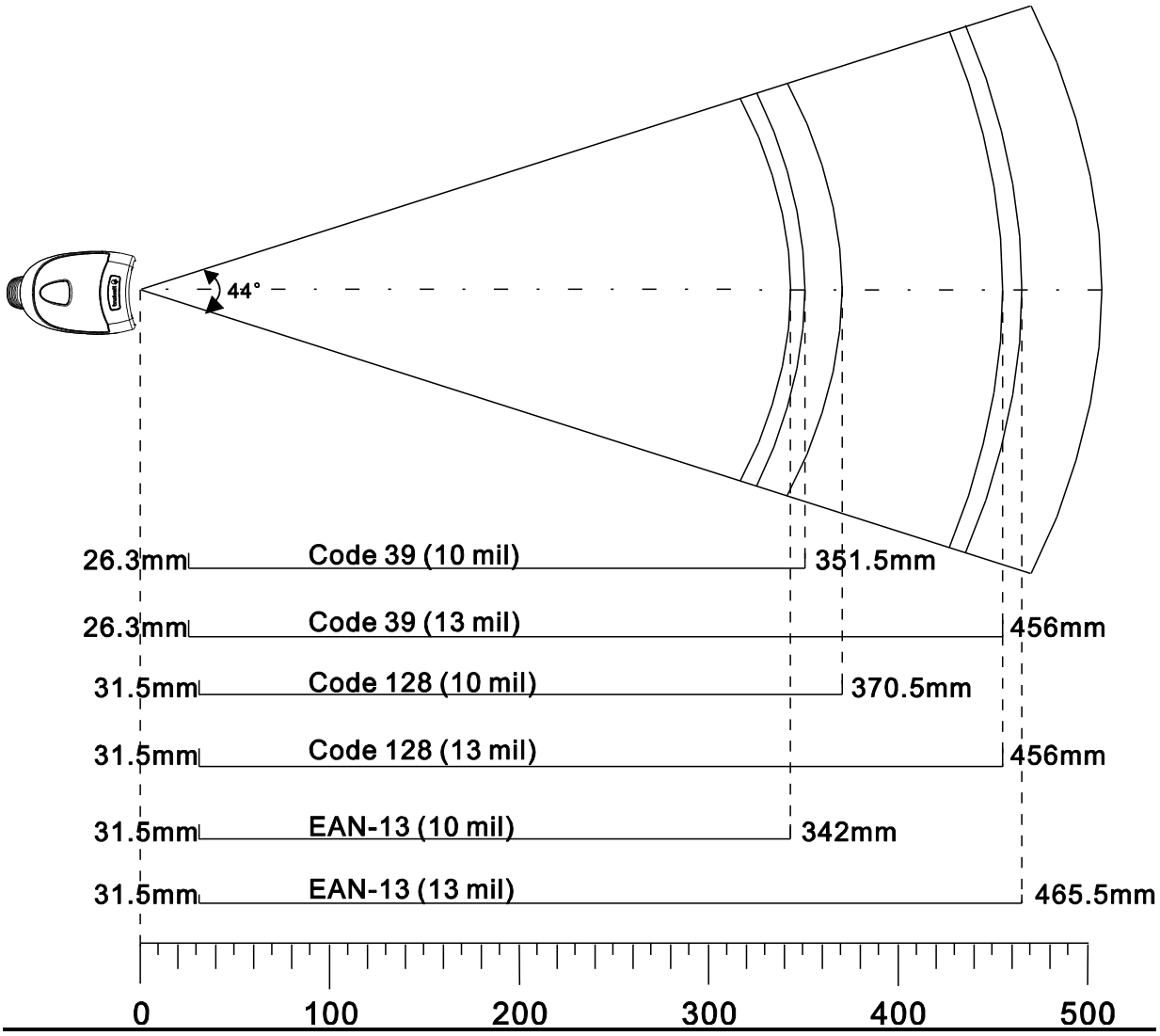


Fig. 1-7

Specifications

Performance		
Light Source		620nm visible red LED
Image Sensor		CCD linear image sensor
Symbologies		Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN, Code 93, UCC/EAN-128, GS1 Databar, PDF417, MicroPDF417, etc.
Resolution		≥ 4 mil
Scan Angle*	Pitch	±55° @ 0° Roll and 0° Skew
	Roll	±30° @ 0° Pitch and 0° Skew
	Skew	±75° @ 0° Roll and 0° Pitch
Minimum Symbol Contrast		30%
Scan Rate		300 scans per second
Interface		RS-232, USB, PS/2
Physical		
Dimensions (L x W x H)		113.5 x 73 x 159 mm
Weight		152 g
Indication		Beep and LED
Power Adaptor		Output: DC5V, 1.5A Input: AC 100~240V, 50~60Hz
Current	Max. Current	185mA
	Working Current	135mA
	Standby Current	75mA
Environmental		
Operating Temperature		-10°C to 50°C (14°F to 122°F)
Storage Temperature		-20°C to 60°C (-4°F to 140°F)
Humidity		5% ~ 95% (non-condensing)
ESD		±8 KV contact discharge; ±15 KV air discharge
Drop		Withstand multiple 1.5m drops to concrete
IP Seal		IP54
Certifications		
FCC Part15 Class B, CE EMC Class B		

*Test conditions: Code 39, 3 Bytes; Narrow Space=10mil; Width:Narrow=2.5:1; PCS=0.8; Barcode Height=40mm; Scan Distance=210mm, Ambient Temperature=23℃, Illumination= 200 LUX

Dimensions

Side View

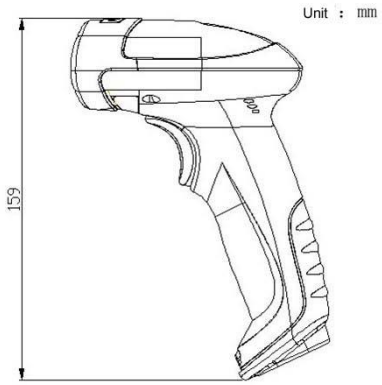


Fig. 1-8

Front View

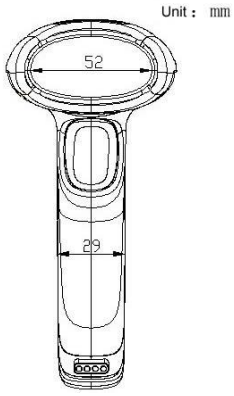


Fig. 1-9

Top View

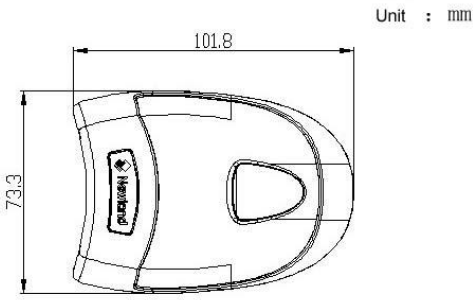


Fig. 1-10

Scanning Instructions

When the HR15 corded scanner is in the Manual mode (default), you can follow the steps below to scan a barcode:

1. Hold down the trigger. Then the scanner will project a red aiming beam.
2. Aim the red beam across the center of barcode, as shown in Fig.1-11.
3. Release the trigger when the scanner beeps and the red beam goes off. If the barcode is decoded successfully, the data will be sent to the Host.

Note: For the same batch of barcodes, the scanner will keep a very high success ratio in certain distance which can be regarded as the optimal scanning distance.

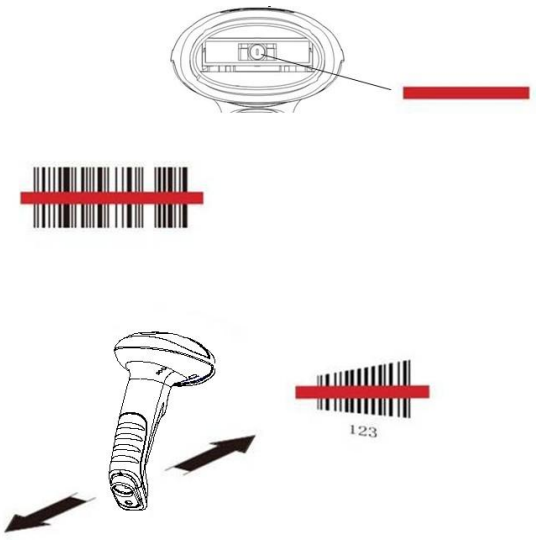


Fig. 1-11

Scan Angle

The scanner is designed to function within a certain range of scan angles. Any unreasonable deviation may cause decoding failure.

Scan angles of the scanner:

- ✧ Pitch ：±55°, 0° Roll and 0° Skew (Fig. 1-12)
- ✧ Roll ：±30°, 0° Pitch and 0° Skew (Fig. 1-13)
- ✧ Skew：±75°, 0° Roll and 0° Pitch (Fig. 1-14)

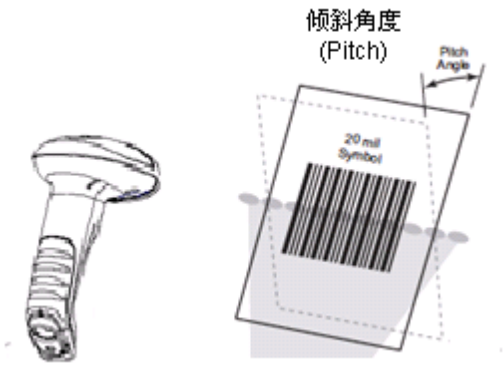


Fig. 1-12

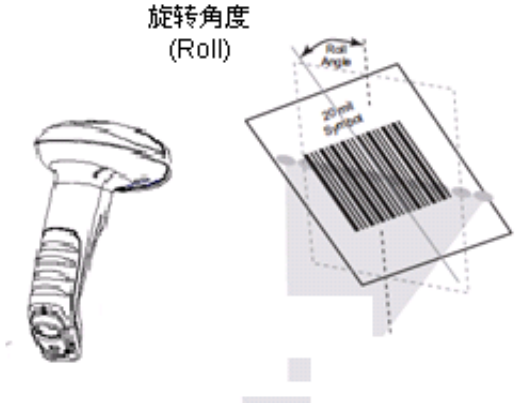


Fig. 1-13

Fig. 1-14

**【Enter Setup】

Chapter 2 General Settings

Introduction

There are two ways to configure the HR15 corded scanner: barcode programming and command programming.

Barcode Programming

The HR15 corded scanner scans a series of barcodes to program features. In the following sections, we will explain the available options and features and provide the barcodes to program them.

This programming method is most straightforward. However, it requires manually scanning barcodes. As a result, errors are more likely to occur.

Command Programming

You can send the command strings through the Host to your scanner to perform configuration. In the following sections, the commands will be provided along with programming barcodes.

This configuration can also be performed through our software. For more information, see the **"EzSet123 Scanner Configuration Utility User Guide"**.

Note: All settings except temporary ones are stored in non-volatile memory of the scanner and will not be lost by removing power from the scanner, or turning off/ rebooting the device.

【Exit Setup】

99900031

**【Enter Setup】

Programming Barcode/ Programming Command/Function

The figure above is an example that shows you the programming barcode and command for the Enter Setup function:

1. The **Enter Setup** barcode.

2. The **Enter Setup** command.

3. The function that can be enabled by using the programming barcode or command listed above.

4. ** incidates factory default settings.

Use of Programming Barcodes

Scanning the **Enter Setup** barcode can enable the scanner to enter the setup mode. Then you can scan a number of programming barcodes to configure your scanner.

The HR15 corded scanner is in the setup mode by default. In real application, programming barcodes hardly overlap with non-programming barcodes, so it is unnecessary to exit the setup mode each time you finish the configuration.

Some functions or options may involve parameter value settings that require scanning numeric barcodes. To find the numeric barcodes, see the "**Digit Barcodes**" section in Chapter 7.

The scanner can be configured to send or not to send programming barcode data (i.e. programming command) to the host device by scanning the appropriate barcode below. By default, the **Do Not Send the Programming Barcode Data** option is enabled. Note that restarting/rebooting the scanner will reset this parameter to its default value.

99900034

【Send the Programming Barcode Data】

99900033

**【Do Not Send the Programming Barcode Data】

99900032

【Exit Setup】

**【Enter Setup】

Use of Command

Based on serial port communication, programming commands can be composed of printable ASCII characters, 0x20 (space) through 0x7D (“}”).

Programming Mode

Before configuring the HR15 corded scanner through serial communication, the device must enter the programming mode; in such mode, the device will only accept and process commands and respond accordingly.

You can enable the device to enter or exit the programming mode by sending the specified commands to it. In the event that the device receives no data for 5 seconds, it will exit the programming mode automatically.

Format of Command

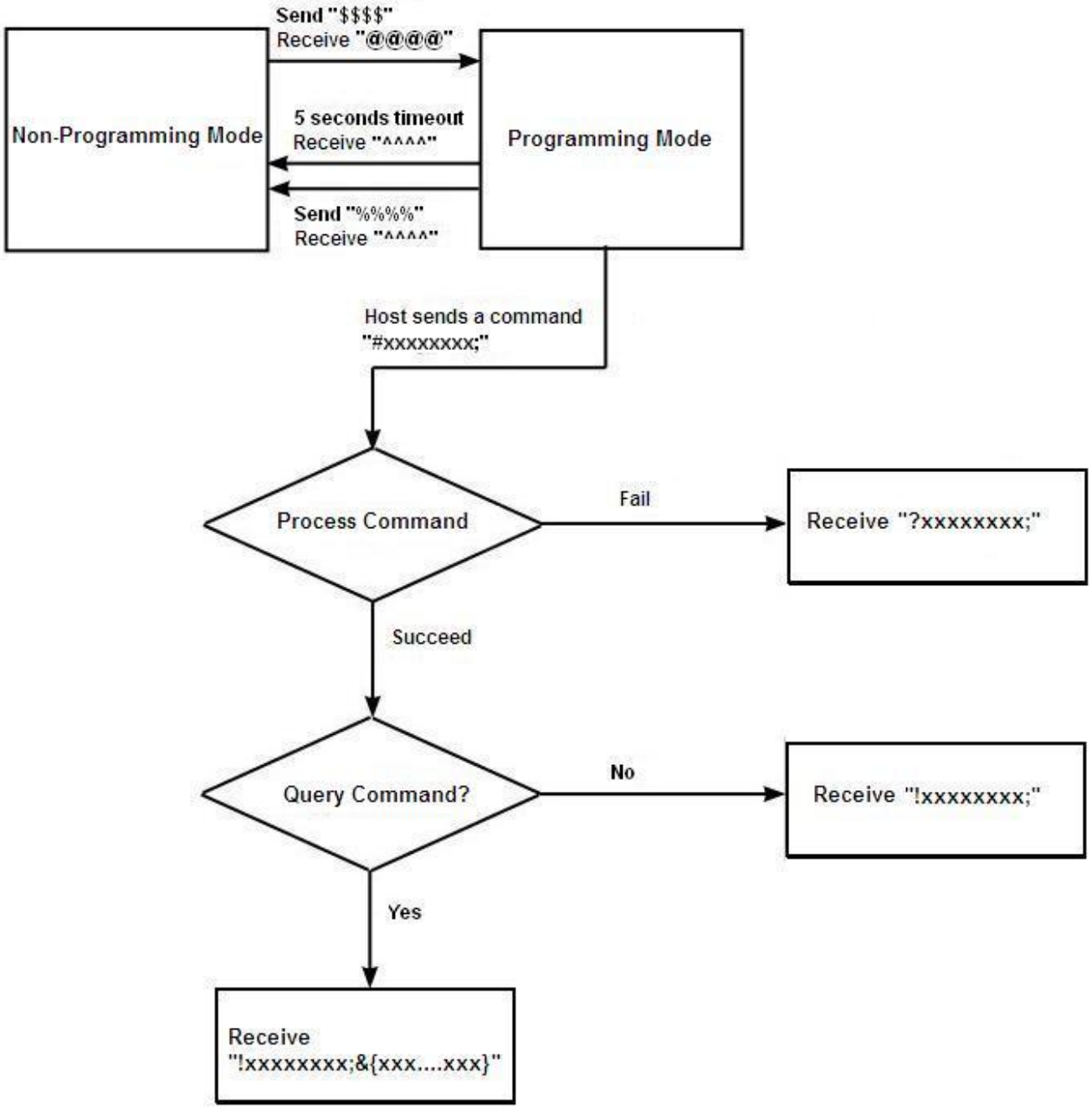
1. Enter the programming mode: send “**$$$$**” from the Host to the scanner, the scanner returns a reply of “@@@@” to indicate success.
2. Exit the programming mode: send “**%%%%**” from the Host to the scanner, the scanner returns a reply of “^^^^” to indicate success.
3. Receiving “**^^^^**” from the scanner when the Host did not send “**%%%%**” to it indicates the scanner has automatically exit the setup mode.
4. A command string consists of “**#**”, programming command and “**;**”, such as “**#99900030;**”.
5. If a command string is properly processed, the scanner will return a reply consisting of “**!**”, programming command and “**;**”, such as “**!99900030;**”.
6. If the scanner receives an invalid command string or fails to process a command string, it will return a reply consisting of “**?**”, programming command and “**;**”, such as “**?99900030;**”
7. If a query command is properly processed, the scanner will return a reply containing “**!**”, programming command and “**;**”, as well as "**&{**", query result and "**}**". For example:
   send a query command of “**#99900301**;” to get the firmware version information,
   the Host will receive a reply of “**!99900301;&{Firmware v1.7.5;Decoder v1.00.023.C6;|FD25430B}**”.
   Description:
   In the reply, “**Firmware v1.7.5;Decoder v1.00.023.C6**” is the query result; “**|**” is a separator; and “**FD25430B**” is the CRC32 checksum value in hexadecimal format.

8. If a command involves parameter(s), they shall be combined as per the rule.
   For example: The combined commands for appending terminating character suffix 0x0D (CR),0x0A (LF) to the scanned data and saving the settings:
   "**#99904112;#99900000;#99900015;#99900000;#99900012;#99900020;**".

99900031

**【Enter Setup】

Configuration Process Flow



99900032

【Exit Setup】

**【Enter Setup】

Default Settings

Restore Factory Default Settings

Scanning the **Reset Scanner** barcode can restore the scanner to the factory default settings.

You may need to reset your scanner when:

1. scanner is not properly configured so that it fails to decode barcodes;

2. you forget previous configuration and want to avoid its impact;

3. functions that are rarely used have been enabled for the time being.

【Reset Scanner】

【Exit Setup】

**【Enter Setup】

Operating Mode Options

【Power Off[1]】

【Test Mode[4]】

【Deep Sleep Mode[2]】

【Reboot Scanner】

【Light Sleep Mode[3]】

Note:

1. The scanner that has been turned off in this way cannot be awakened. To turn it back on, disconnect it from the host device and reconnect it.
2. To awaken the scanner, press the trigger.
3. To awaken the scanner, press the trigger or communicate with the scanner.
4. Pressing the trigger can exit the Test mode.

The Test mode, Deep Sleep mode and Light Sleep mode are available for temporary use only. They will become invalid after the scanner is restarted/rebooted.

【Exit Setup】

99900031

**【Enter Setup】

Scan Mode

Manual Mode

Manual Mode (default): A trigger pull activates a decode session. The decode session continues until the barcode is decoded or you release the trigger or the decode session timeout occurs (default: 15 seconds; programmable).

**【Manual Mode】

Decode Session Timeout: This parameter sets the maximum time decode session continues during a scan attempt. The default timeout is 15s.

To program this parameter, scan the **Decode Session Timeout** barcode and the numeric barcodes. To find the numeric barcodes, see the "**Digit Barcodes**" section in Chapter 7.

【Decode Session Timeout】

Note: Decode Session Timeout: 01-15, corresponding to 1s, 2s, ……, 15s (default), in 1s increments; **00**: infinite.

99900032

【Exit Setup】

99900031

**【Enter Setup】

Auto Mode

Auto Mode: Pressing the trigger activates a decode session. The decode session continues until the barcode is decoded or the decode session timeout occurs (default: 15 seconds; programmable). The scanner automatically starts one session after another until you press the trigger a second time.

【Auto Mode】

**【Enter Setup】

Decode Session Timeout: This parameter sets the maximum time decode session continues during a scan attempt. The default timeout is 15s.

To program this parameter, scan the **Decode Session Timeout** barcode and the numeric barcodes. To find the numeric barcodes, see the "**Digit Barcodes**" section in Chapter 7.

Note: Decode Session Timeout: 01-15, corresponding to 1s, 2s, ……, 15s (default), in 1s increments; **00**: infinite.

You can also configure whether to allow rereading same barcode. By default, rereading same barcode is not allowed.

【Decode Session Timeout】

**【Disallow Rereading Same Barcode】

【Allow Rereading Same Barcode】

【Recalculate Timeout After Good Read】

- **Allow Rereading Same Barcode**
  This allows the scanner to reread the same barcode that has been decoded in the previous session.
- **Disallow Rereading Same Barcode**
  This protects against accidental rereads of the same barcode. If the barcode being scanned is identical with the one previously scanned, the decode session will suspend until a different barcode comes up.
- **Recalculate Timeout After Good Read**
  The decode session timeout restarts after a good read.

【Exit Setup】

99900031

**【Enter Setup】

Blink Mode

Blink Mode: The scanner automatically activates a decode session. The decode session continues until the barcode is decoded or the decode session timeout occurs (100ms; non-programmable). When a decode session is completed, the scanner waits until the timeout between decodes occurs (default: 1s, programmable) and then starts next session. The scanner continues to work in this pattern.

Pressing the trigger can also activate a decode session; holding down the trigger can suspend decode session.

Timeout between Decodes: This parameter sets the time period between the end of one decode session and the start of next session. It is programmable in 0.5s increments from 0s to 7.5s. The default timeout is 1s. To program this parameter, scan the **Timeout between Decodes** barcode and the numeric barcodes.

Note: Timeout between Decodes: 00-15, corresponding to 0s, 0.5s, 1s (default), ……, 7.5s, in 0.5s increments.

99900112

【Blink Mode】

99900151

【Timeout between Decodes】

Example: Set the Timeout between Decodes to 5s (level 10)

1. Scan the **Enter Setup** barcode.
2. Scan the **Timeout between Decodes** barcode.
3. Scan the numeric barcodes ”1” and ”0” . (See the **“Digit Barcodes”** section in Chapter 7)
4. Scan the **Exit Setup** barcode.

99900032

【Exit Setup】

99900031

**【Enter Setup】

Sense Mode

Sense Mode: The scanner activates a decode session every time when it detects a change in ambient illumination (excluding the situation when change is detected before the timeout between decodes occurs). Decode session continues until the barcode is decoded or the decode session timeout occurs.

Pressing the trigger can also activate a decode session. Holding down the trigger can suspend decode session. Same barcode cannot be reread before the timeout between decodes (same barcode) occurs.

【Sense Mode】

Decode Session Timeout: This parameter sets the maximum time decode session continues during a scan attempt. The default timeout is 15s. To program this parameter, scan the **Decode Session Timeout** barcode and the numeric barcodes.

Timeout between Decodes: This parameter sets the time period between the end of one decode session and the start of next session. It is programmable in 0.5s increments from 0s to 7.5s. The default timeout is 1s. To program this parameter, scan the **Timeout between Decodes** barcode and the numeric barcodes.

Note: Decode Session Timeout: 01-15, corresponding to infinite, 1s, 2s,…, 15s (default), in 1s increments; **00**: infinite.

Timeout between Decodes: 00-15, corresponding to 0s, 0.5s, 1s (default), …, 7.5s, in 0.5s increments.

【Decode Session Timeout】

【Timeout between Decodes】

【Exit Setup】

99900031

**【Enter Setup】

Sensitivity specifies the degree of acuteness of the scanner's response to changes in ambient illumination. The higher the sensitivity, the lower requirement in illumination change to trigger the scanner. You can select an appropriate degree of sensitivity that fits the ambient environment. By default, High Sensitivity is enabled.

99900152

**【High Sensitivity】

99900154

【Low Sensitivity】

99900153

【Medium Sensitivity】

99900161

【Custom Sensitivity】

It is recommended not to set the custom sensitivity when one of the other three options can meet your needs.

Note: Sensitivity: 00-0F; the smaller the number, the higher the sensitivity.

Example: Set the sensitivity to level 5

1. Scan the **Enter Setup** barcode.
2. Scan the **Custom Sensitivity** barcode.
3. Scan the numeric barcodes "0" and "5". (See the **"Digit Barcodes"** section in Chapter 7)
4. Scan the **Exit Setup** barcode.

99900031

**【Enter Setup】

Timeout between Decodes (Same Barcode): This parameter sets the minimum time between decodes for the same barcode. It protects against accidental rereads of the same barcode. It is programmable in 0.1s increments from 0s to 12s. If you want to stop the scanner from rereading the same barcode, set this parameter to 127. The default timeout is 1.6s. To program this parameter, scan the **Timeout between Decodes (Same Barcode)** barcode, the numeric barcode(s) and the **Save** barcode.

【Timeout between Decodes (Same Barcode)】

Note: Timeout between Decodes (Same Barcode): 0-120, corresponding to 0s, 0.1s, ⋯, 1.6s (default), ⋯, 12s, in 0.1s increments; **127**: infinite.

Example: Set the timeout between decodes (same barcode) to 5s

1. Scan the **Enter Setup** barcode.
2. Scan the **Timeout between Decodes (Same Barcode)** barcode.
3. Scan the numeric barcodes “5” and “0”. (See the **“Digit Barcodes”** section in Chapter 7)
4. Scan the **Save** barcode. (See the “**Save/Cancel Barcodes**” section in Chapter 7)
5. Scan the **Exit Setup** barcode.

99900031

**【Enter Setup】

Continuous Mode

Continuous Mode: The scanner automatically activates a decode session. The decode session continues until the barcode is decoded. When a decode session is completed, the scanner waits until the timeout between decodes occurs and then starts next session. The scanner continues to work in this pattern. Same barcode cannot be reread before the timeout between decodes (same barcode) occurs.

Holding down the trigger can also activate the scanner to decode continuously, but with no intervals (i.e. timeout between decodes will be ignored).

【Continuous Mode】

**【Enter Setup】

Timeout between Decodes: This parameter sets the time period between the end of one decode session and the start of next session. It is programmable in 0.5s increments from 0s to 7.5s. The default timeout is 1s. To program this parameter, scan the **Timeout between Decodes** barcode and the numeric barcodes.

Note: Timeout between Decodes: 00-15, corresponding to 0s, 0.5s, 1s (default), ……, 7.5s, in 0.5s increments.

【Timeout between Decodes】

Timeout between Decodes (Same Barcode): This parameter sets the minimum time between decodes for the same barcode. It protects against accidental rereads of the same barcode. It is programmable in 0.1s increments from 0s to 12s. If you want to stop the scanner from rereading the same barcode, set this parameter to 127. The default timeout is 1.6s. To program this parameter, scan the **Timeout between Decodes (Same Barcode)** barcode, the numeric barcodes and the **Save** barcode.

Note: Timeout between Decodes (Same Barcode): 0-120, corresponding to 0s, 0.1s, …, 1.6s (default), …, 12s, in 0.1s increments; **127**: infinite.

【Timeout between Decodes (Same Barcode)】

Example: Set the timeout between decodes (same barcode) to 5s:

1. Scan the **Enter Setup** barcode.
2. Scan the **Timeout between Decodes (Same Barcode)** barcode.
3. Scan the numeric barcodes “5” and “0”. (See the **“Digit Barcodes”** section in Chapter 7)
4. Scan the **Save** barcode. (See the “**Save/Cancel Barcodes**” section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

Delayed Sense Mode

Delayed Sense Mode: The scanner automatically activates a decode session when it detects a change in ambient illumination. The decode session continues until the barcode is decoded or the decode session timeout occurs. When a decode session is completed, the scanner waits 200ms and then starts to monitor ambient environment until it detects a change to trigger next decode session. Same barcode cannot be reread before the timeout between decodes (same barcode) occurs.


99900115

【Delayed Sense Mode】

Decode Session Timeout: This parameter sets the maximum time decode session continues during a scan attempt. To program this parameter, scan the **Decode Session Timeout** barcode and the numeric barcodes.

Timeout between Decodes (Same Barcode): This parameter sets the minimum time between decodes for the same barcode. It protects against accidental rereads of the same barcode. It is programmable in 0.2s increments from 0s to 3s. To program this parameter, scan the **Timeout between Decodes (Same Barcode)** barcode and the numeric barcodes.

Note: Decode Session Timeout: 01-15, corresponding to 2s, 4s,…, 30s, in 2s increments; **00**: infinite.

Timeout between Decodes (Same Barcode): 00-15, corresponding to 0s, 0.2s,…,3s,in 0.2s increments.


99900150

【Decode Session Timeout】


99900151

【Timeout between Decodes (Same Barcode)】

99900032

【Exit Setup】

**【Enter Setup】

Command Trigger Mode

Command Trigger Mode: The scanner activates a decode session when receiving the command string of "**$$$$#99900035;%%%%**" or scanning the **Start Trigger Simulation** barcode. The decode session continues until the barcode is decoded, or the scanner receives the command string of "**$$$$#99900036;%%%%**" or scans the **Stop Trigger Simulation** barcode.

If the scanner receives the command string of "**$$$$#99900036;%%%%**" or scans the **Stop Trigger Simulation** barcode during a decode session, it will stop the decode session and send a 2-character message (e.g., 0A or 0X) to the host device to indicate decoding failure.

【Command Trigger Mode】

【Start Trigger Simulation】

【Stop Trigger Simulation】

You can define a no read message to be sent to the host device when the scanner in the Command Trigger mode fails to decode a barcode.

【Define a No Read Message】

【Exit Setup】

**【Enter Setup】

Security Setup

This parameter specifies the number of times to decode a barcode during a scan attempt. The higher the security level, the lower the error rate and decoding efficiency. By default, security is set to be level 1.

**【Set Security Level to 1】

【Set Security Level to 3】

【Set Security Level to 2】

【Set Security Level to 4】

【Exit Setup】

**【Enter Setup】

Decode Beep

By default, the scanner emits a medium-pitched loud beep that lasts 150ms after good decode.

【Do Not Beep After Good Decode】

【Medium-Pitched Medium-Loud Beep】

【High-Pitched Loud Beep】

【Medium-Pitched Low Beep】

【High-Pitched Medium-Loud Beep】

【Low-Pitched Loud Beep】

【High-Pitched Low Beep】

【Low-Pitched Medium-Loud Beep】

**【Medium-Pitched Loud Beep】

【Low-Pitched Low Beep】

【Exit Setup】

99900031

**【Enter Setup】

99900142

**【Set Beep Length to 150ms】

99900144

【Set Beep Length to 50ms】

99900143

【Set Beep Length to 100ms】

99900032

【Exit Setup】

**【Enter Setup】

Decode Area and Output Interval

You can set the number of barcodes allowed to be read per scan. By default, the **Read One Barcode Nearest to the Center Per Scan** option is enabled.

You can also set the decoded data output interval. By default, output interval is 0ms.

【Read 2 Barcodes Per Scan】

【Read 3 Barcodes Per Scan】

【Read 4 Barcodes Per Scan】

**【Set Output Interval to 0ms】

【Set Output Interval to 50ms】

**【Read One Barcode Nearest to the Center Per Scan】

【Read One Barcode At The Center Per Scan】

【Set Output Interval to 100ms】

【Set Output Interval to 150ms】

【Exit Setup】

**【Enter Setup】

Other Settings

Temporary Mute

【Enable Temporary Mute】

【Disable Temporary Mute】

Note: Temporary Mute is only applicable to decode beep and will be disabled after you reboot the scanner.

【Exit Setup】

**【Enter Setup】

Chapter 3 Inquiry Command

Introduction

You can scan one of the barcodes below to inquire the scanner information. The results will be sent to the Host.

【Inquire all Information】

【Inquire the Manufacture Date】

【Inquire the Firmware Version】

【Inquire the Model Number】

【Inquire the Serial Number】

【Exit Setup】

**【Enter Setup】

Chapter 4 Communication Settings

RS-232 Interface

Baud Rate

When the scanner is connected to the Host via serial port, you need to set communication parameters (including baud rate, parity check, data bit and stop bit) to match the host device.

Baud rate is the number of bits of data transmitted per second. Set the scanner's baud rate to match the Host requirements. Otherwise, data may not reach the Host or may reach it in distorted form. The default baud rate is 9600.

**【9600】

【1200】

【2400】

【4800】

【14400】

【19200】

【Exit Setup】

99900031

**【Enter Setup】

99902107

【38400】

99902110

【57600】

99902111

【115200】

99900032

【Exit Setup】

**【Enter Setup】

Parity Check

By default, the **None** option is enabled.

**【None】

【Even】

【Odd】

Stop Bit

By default, the **1 Stop Bit** option is enabled.

**【1 Stop Bit】

【2 Stop Bits】

【Exit Setup】

**【Enter Setup】

Flow Control

By default, the **No Flow Control** option is enabled.

**【No Flow Control】

【CTS Flow Control】

【RTS Flow Control】

【RTS_CTS Flow Control】

【Exit Setup】

**【Enter Setup】

Data Bit

By default, the **8 Data Bits** option is enabled.

**【8 Data Bits】

【8 Data Bits, No Parity, 1 Stop Bit】

【8 Data Bits, Even Parity, 1 Stop Bit】

【8 Data Bits, Odd Parity, 1 Stop Bit】

【7 Data Bits】

【7 Data Bits, Even Parity, 1 Stop Bit】

【8 Data Bits, No Parity, 2 Stop Bits】

【8 Data Bits, Even Parity , 2 Stop Bits】

【8 Data Bits, Odd Parity, 2 Stop Bits】

【7 Data Bits, Even Parity, 2 Stop Bits】

【7 Data Bits, Odd Parity, 2 Stop Bits】

【7 Data Bits, Odd Parity, 2 Stop Bits】

【Exit Setup】

**【Enter Setup】

USB Interface

By default, the **USB HID-KBW** option is enabled.

USB HID-KBW

**【USB HID-KBW】

USB COM Port Emulation

【USB COM Port Emulation】

【Exit Setup】

99900031

**【Enter Setup】

Keyboard Parameters

Keyboard Layout

By default, the **1-US (English)** option is enabled.

**【1 – US (English)】

【2 - Japanese】

【3 - Denmark】

【4 - Finland】

【5 - France】

【6 - Turkey F】

【7 - Italy】

【8 - Norway】

【9 - Spain】

【10 - Turkey Q】

【11 - UK】

**【Enter Setup】

Inter-Character Delay

Inter-character Delay: 00-15 (16 levels), corresponding to 0ms (default), 5ms, 10ms, …, 75ms, in 5ms increments.

【Inter-Character Delay】

Convert Case

By default, the **No Case Conversion** option is enabled.

**【No Case Conversion】

【Convert All to Lowercase】

【Convert All to Uppercase】

【Invert Upper and Lower Case Characters】

【Exit Setup】

**【Enter Setup】

Chapter 5 Data Formatting

Introduction

After a successful barcode reading, a string containing numbers, letters or symbols will be returned.

In real applications, barcode data may be found insufficient for your needs. You may wish to include additional information such as barcode type, data acquisition time or delimiter in data being scanned.

Adding extra information to printed barcodes does not seem like a sensible solution since that will increase the barcode size and make them inflexible. Instead, we come up with the idea of appending prefix and suffix to the data without making any change to barcodes. We will show you how to conduct the configuration in the following sections.

Note: Customized data: <Prefix> <Data><Suffix><Terminating Character>

Prefix Sequence

By default, the **Code ID+Custom+AIM ID** option is enabled.

**【Code ID+Custom+AIM ID】

【Custom+Code ID+AIM ID】

【Exit Setup】

**【Enter Setup】

Custom Prefix

Enable/Disable Custom Prefix

If custom prefix is enabled, you are allowed to append to the data a user-defined prefix that cannot exceed 11 characters. By default, custom prefix is disabled.

For example, if barcode data is “123” and custom prefix is “AB”, the Host will receive “AB123”.

**【Disable Custom Prefix】

【Enable Custom Prefix】

Set Custom Prefix

To set a custom prefix, scan the **Set Custom Prefix** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired prefix and the **Save** barcode.

Note: A custom prefix cannot exceed 11 characters.

【Set Custom Prefix】

Example: set the custom prefix to “CODE” (its hexadecimal value is 0x43/0x4F/0x44/0x45)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Custom Prefix** barcode.
3. Scan the numeric barcodes “4”,“3”,“4”,“F”,“4”,“4”,“4” and “5”. (See the “**Digit Barcodes**” section in Chapter 7)
4. Scan the **Save** barcode. (See the “**Save/Cancel Barcodes**” section in Chapter 7)
5. Scan the **Enable Custom Prefix** barcode.
6. Scan the **Exit Setup** barcode.

【Exit Setup】

**【Enter Setup】

AIM ID Prefix

AIM (Automatic Identification Manufacturers) ID defines symbology identifier (For the details, see the "**AIM ID Table**" section in Chapter 7). If AIM ID prefix is enabled, the scanner will add the symbology identifier before the scanned data after decoding. By default, AIM ID prefix is disabled.

**【Disable AIM ID Prefix】

【Enable AIM ID Prefix】

Code ID Prefix

Code ID can also be used to identify barcode type. Unlike AIM ID, Code ID is user programmable. To learn how to program it, see the "**Set Code ID**" sections in Chapter 6. For the information of default Code ID, see the "**Code ID Table**" section in Chapter 7. By default, Code ID prefix is disabled.

**【Disable Code ID Prefix】

【Restore Default Code IDs】

【Enable Code ID Prefix】

【Exit Setup】

**【Enter Setup】

Custom Suffix

Enable/Disable Custom Suffix

If custom suffix is enabled, you are allowed to append to the data a user-defined suffix that cannot exceed 11 characters. By default, custom suffix is disabled.

For example, if barcode data is “123” and custom suffix is “AB”, the Host will receive “123AB”.

**【Disable Custom Suffix】

【Enable Custom Suffix】

Set Custom Suffix

To set a custom suffix, scan the **Set Custom Suffix** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired suffix and the **Save** barcode.

Note: A custom suffix cannot exceed 11 characters.

【Set Custom Suffix】

Example: Set the custom suffix to “AGE” (its hexadecimal value is 0x41/0x47/0x45)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Custom Suffix** barcode.
3. Scan the numeric barcodes “4”“1”“4”“7”“4” and “5”. (See the “**Digit Barcodes**” section in Chapter 7)
4. Scan the **Save** barcode. (See the “**Save/Cancel Barcodes**” section in Chapter 7)
5. Scan the **Enable Custom Suffix** barcode.
6. Scan the **Exit Setup** barcode.

【Exit Setup】

**【Enter Setup】

Terminating Character Suffix

Enable/Disable Terminating Character Suffix

A terminating character such as carriage return (CR) or carriage return/line feed pair (CRLF) can only be used to mark the end of data, which means nothing can be added after it. By default, terminating character suffix is enabled.

【Disable Terminating Character Suffix】

**【Enable Terminating Character Suffix】

【Exit Setup】

99900031

**【Enter Setup】

Set Terminating Character Suffix

To set a terminating character suffix, scan the **Set Terminating Character Suffix** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired terminating character and the **Save** barcode. By default, terminating character 0x0D,0x0A is enabled.

99904112

【Set Terminating Character Suffix】

99904113

【Terminating Character 0x0D】

99904114

【Terminating Character 0x0D,0x0A】

Example: Set the terminating character to "0x0A"

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Terminating Character Suffix** barcode.
3. Scan the numeric barcodes "0" and "A". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

If terminating character suffix is enabled, after finishing the above configuration an LF character will be added after scanned data.

Note: Under the Windows operating system, you can quickly set terminating character suffix to 0x0D or 0x0D,0x0A by scanning the appropriate barcode above.

99900032

【Exit Setup】

99900031

**【Enter Setup】

Chapter 6 Symbologies

Introduction

Every symbology (barcode type) has its own unique attributes. This chapter provides programming barcodes for configuring the scanner so that it can identify various barcode symbologies. It is recommended to disable those that are rarely used to increase the efficiency of the scanner.

Code 128

Restore Default Settings

Scan the barcode below to restore all parameters in Code 128 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

99910000

【Restore the Default Settings of Code 128】

Enable/Disable Code 128

Code 128 is enabled by default.

99910002

**【Enable Code 128】

99910001

【Disable Code 128】

Note: If the scanner fails to identify Code 128 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable Code 128** barcode.

99900032

【Exit Setup】

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Code 128.

To set the Code ID, scan the **Set Code ID for Code 128** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Code 128】

Example: Set the Code ID of Code 128 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Code 128** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

Set Length Range for Code 128

The scanner can be configured to only decode Code 128 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 1 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 128 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 128 barcodes with that length are to be decoded. The default minimum and maximum lengths are 1 character and 255 characters respectively.

99910003

【Set the Minimum Length】

99910004

【Set the Maximum Length】

Example: Set the scanner to decode Code128 barcodes containing between 8 and 12 characters

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the “**Digit Barcodes**” section in Chapter 7)
4. Scan the **Save** barcode. (See the “**Save/Cancel Barcodes**” section in Chapter 7)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcodes “1” and “2”.
7. Scan the **Save** barcode.
8. Scan the **Exit Setup** barcode.

99900031

**【Enter Setup】

UCC/EAN-128

Restore Default Settings

Scan the barcode below to restore all parameters in UCC/EAN-128 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

【Restore the Default Settings of UCC/EAN-128】

Enable/Disable UCC/EAN-128

UCC/EAN-128 is enabled by default.

**【Enable UCC/EAN-128】

【Disable UCC/EAN-128】

Note: If the scanner fails to identify UCC/EAN-128 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable UCC/EAN-128** barcode.

99900032

【Exit Setup】

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for UCC/EAN-128.

To set the Code ID, scan the **Set Code ID for UCC/EAN-128** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for UCC/EAN-128】

Example: Set the Code ID of UCC/EAN-128 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for UCC/EAN-128** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

Set Length Range for UCC/EAN-128

The scanner can be configured to only decode UCC/EAN-128 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 1 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes UCC/EAN-128 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only UCC/EAN-128 barcodes with that length are to be decoded. The default minimum and maximum lengths are 1 character and 255 characters respectively.

99910103

【Set the Minimum Length】

99910104

【Set the Maximum Length】

Example: Set the scanner to decode UCC/EAN-128 barcodes containing between 8 and 12 characters

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the “**Digit Barcodes**” section in Chapter 7)
4. Scan the **Save** barcode. (See the “**Save/Cancel Barcodes**” section in Chapter 7)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcodes “1” and “2”.
7. Scan the **Save** barcode.
8. Scan the **Exit Setup** barcode.

99900032

【Exit Setup】

**【Enter Setup】

AIM 128

Restore Default Settings

Scan the barcode below to restore all parameters in AIM 128 configuration to the factory default settings. To find the related default settings, see the “**Default Parameters Table**” section in Chapter 7.

【Restore the Default Settings of AIM 128】

Enable/Disable AIM 128

AIM 128 is disabled by default.

【Enable AIM 128】

**【Disable AIM 128】

Note: If the scanner fails to identify AIM 128 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable AIM 128** barcode.

【Exit Setup】

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for AIM 128.

To set the Code ID, scan the **Set Code ID for AIM 128** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for AIM 128】

Example: Set the Code ID of AIM-128 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for AIM-128** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

Set Length Range for AIM 128

The scanner can be configured to only decode AIM 128 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 1 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes AIM 128 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only AIM 128 barcodes with that length are to be decoded. The default minimum and maximum lengths are 1 character and 255 characters respectively.

99910203

【Set the Maximum Length】

99910204

【Set the Minimum Length】

Example: Set the scanner to decode AIM128 barcodes with lengths containing between 8 and 12 characters

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the “**Digit Barcodes**” section in Chapter 7)
4. Scan the **Save** barcode. (See the “**Save/Cancel Barcodes**” section in Chapter 7)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcodes “1” and “2”.
7. Scan the **Save** barcode.
8. Scan the **Exit Setup** barcode.

99900031

**【Enter Setup】

EAN-8

Restore Default Settings

Scan the barcode below to restore all parameters in EAN-8 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

【Restore the Default Settings of EAN-8】

Enable/Disable EAN-8

EAN-8 is enabled by default.

**【Enable EAN-8】

【Disable EAN-8】

Note: If the scanner fails to identify EAN-8 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable EAN-8** barcode.

99900032

【Exit Setup】

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for EAN-8.

To set the Code ID, scan the **Set Code ID for EAN-8** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for EAN-8】

Example: Set the Code ID of EAN-8 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for EAN-8** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

2-Digit Add-On Code

An EAN-8 barcode can be augmented with a two-digit add-on code to form a new one..


99910405

**【Disable 2-Digit Add-On Code】


99910406

【Enable 2-Digit Add-On Code】


99910407

【Decode EAN-8 + 2-Digit Add-On Code Only】

Note:

- ✧ **Disable 2-Digit Add-On Code:** The scanner only decodes the main part when scanning a new barcode. It can also decode standard EAN-8 barcodes.
- ✧ **Enable 2-Digit Add-On Code:** The scanner decodes a mix of EAN-8 barcodes with and without 2-digit add-on codes.
- ✧ **Decode EAN-8 + 2-Digit Add-On Code Only:** The scanner only decodes new barcodes combining 2-digit add-on codes.

99900032

【Exit Setup】

99900031

**【Enter Setup】

5-Digit Add-On Code

An EAN-8 barcode can be augmented with a five-digit add-on code to form a new one.


99910410

**【Disable 5-Digit Add-On Code】


99910411

【Enable 5-Digit Add-On Code】


99910412

【Decode EAN-8 + 5-Digit Add-On Code Only】

Note:

- ✧ **Disable 5-Digit Add-On Code:** The scanner only decodes the main part when scanning a new barcode. It can also decode standard EAN-8 barcodes.
- ✧ **Enable 5-Digit Add-On Code:** The scanner decodes a mix of EAN-8 barcodes with and without 5-digit add-on codes.
- ✧ **Decode EAN-8 + 5-Digit Add-On Code Only:** The scanner only decodes EAN-8 barcodes with 5-digit add-on codes.

99900032

【Exit Setup】

**【Enter Setup】

EAN-8 Extension

- ✧ **Disable EAN-8 Zero Extend:** Transmit EAN-8 barcodes as is.
- ✧ **Enable EAN-8 Zero Extend:** Add five leading zeros to decoded EAN-8 barcodes to extend to13 digits.
- ✧ **Convert EAN-8 to EAN-13:** Add five leading zeros to decoded EAN-8 barcodes to make them compatible in format to EAN-13 barcodes.

**【Disable EAN-8 Zero Extend】

【Enable EAN-8 Zero Extend】

【Convert EAN-8 to EAN-13】

Transmit Check Digit

EAN-8 is 8 digits in length with the last one as its check digit used to verify the accuracy of the data. By default, the scanner transmits EAN-8 check digit.

**【Transmit EAN-8 Check Digit】

【Do Not Transmit EAN-8 Check Digit】

【Exit Setup】

99900031

**【Enter Setup】

EAN-13

Restore Default Settings

Scan the barcode below to restore all parameters in EAN-13 configuration to the factory default settings. To find the related default settings, see the “**Default Parameters Table**” section in Chapter 7.

99910500

【Restore the Default Settings of EAN-13】

Enable/Disable EAN-13

EAN-13 is enabled by default.

99910502

**【Enable EAN-13】

99910501

【Disable EAN-13】

Note: If the scanner fails to identify EAN-13 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable EAN-13** barcode.

99900031

**【Enter Setup】

Transmit Check Digit

EAN-13 is 13 digits in length with the last one as its check digit used to verify the accuracy of the data. By default, the scanner transmits EAN-13 check digit.

**【Transmit EAN-13 Check Digit】

【Do Not Transmit EAN-13 Check Digit】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for EAN-13.

To set the Code ID, scan the **Set Code ID for EAN-13** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for EAN-13】

Example: Set the Code ID of EAN-13 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for EAN-13** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

99900031

**【Enter Setup】

2-Digit Add-On Code

An EAN-13 barcode can be augmented with a two-digit add-on code to form a new one.

**【Disable 2-Digit Add-On Code】

【Enable 2-Digit Add-On Code】

【Decode EAN-13 + 2-Digit Supplement Only】

Note:

- ✧ **Disable 2-Digit Add-On Code:** The scanner only decodes the main part when scanning a new barcode. It can also decode standard EAN-13 barcodes.
- ✧ **Enable 2-Digit Add-On Code:** The scanner decodes a mix of EAN-13 barcodes with and without 2-digit add-on codes.
- ✧ **Decode EAN-13 + 2-Digit Add-On Code Only:** The scanner only decodes new barcodes combining 2-digit add-on codes.

99900031

**【Enter Setup】

5-Digit Add-On Code

An EAN-13 barcode can be augmented with a five-digit add-on code to form a new one.

**【Disable 5-Digit Add-On Code】

【Enable 5-Digit Add-On Code】

【Decode EAN-13 + 5-Digit Add-On Code Only】

Note:

- ✧ **Disable 5-Digit Add-On Code:** The scanner only decodes the main part when scanning a new barcode. It can also decode standard EAN-13 barcodes.
- ✧ **Enable 5-Digit Add-On Code:** The scanner decodes a mix of EAN-13 barcodes with and without 5-digit add-on codes.
- ✧ **Decode EAN-13 + 5-Digit Add-On Code Only:** The scanner only decodes new barcodes combining 5-digit add-on codes.

**【Enter Setup】

ISSN

Restore Default Settings

Scan the barcode below to restore all parameters in ISSN configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

【Restore the Default Settings of ISSN】

Enable/Disable ISSN

ISSN is disabled by default.

【Enable ISSN】

**【Disable ISSN】

Note: If the scanner fails to identify ISSN barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable ISSN** barcode.

【Exit Setup】

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for ISSN.

To set the Code ID, scan the **Set Code ID for ISSN** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for ISSN】

Example: Set the Code ID of ISSN to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for ISSN** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

**【Enter Setup】

ISBN

Restore Default Settings

Scan the barcode below to restore all parameters in ISBN configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

【Restore the Default Settings of ISBN】

Enable/Disable ISBN

ISBN is disabled by default.

【Enable ISBN】

**【Disable ISBN】

Note: If the scanner fails to identify ISBN barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable ISBN** barcode.

【Exit Setup】

**【Enter Setup】

Set ISBN Format

The default format is ISBN-13.

**【ISBN-13】

【ISBN-10】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for ISBN.

To set the Code ID, scan the **Set Code ID for ISBN** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for ISBN】

Example: Set the Code ID of ISBN to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for ISBN** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

UPC-E

Restore Default Settings

Scan the barcode below to restore all parameters in UPC-E configuration to the factory default settings. To find the related default settings, see the “**Default Parameters Table**” section in Chapter 7.

【Restore the Default Settings of UPC-E】

Enable/Disable UPC-E

UPC-E is enabled by default.

**【Enable UPC-E】

【Disable UPC-E】

Note: If the scanner fails to identify UPC-E barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable UPC-E** barcode.

**【Enter Setup】

Transmit Check Digit

UPC-E is 8 digits in length with the last one as its check digit used to verify the accuracy of the data. By default, the scanner transmits UPC-E check digit.

**【Transmit UPC-E Check Digit】

【Do Not Transmit UPC-E Check Digit】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for UPC-E.

To set the Code ID, scan the **Set Code ID for UPC-E** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for UPC-E】

Example: Set the Code ID of UPC-E to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for UPC-E** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

**【Enter Setup】

2-Digit Add-On Code

A UPC-E barcode can be augmented with a two-digit add-on code to form a new one.

**【Disable 2-Digit Add-On Code】

【Enable 2-Digit Add-On Code】

【Decode UPC-E + 2-Digit Add-On Code Only】,

Note:

- ✧ **Disable 2-Digit Add-On Code:** The scanner only decodes the main part when scanning a new barcode. It can also decode standard UPC-E barcodes.
- ✧ **Enable 2-Digit Add-On Code:** The scanner decodes a mix of UPC-E barcodes with and without 2-digit add-on codes.
- ✧ **Decode UPC-E + 2-Digit Add-On Code Only:** The scanner only decodes new barcodes combining 2-digit add-on codes.

【Exit Setup】

99900031

**【Enter Setup】

5-Digit Add-On Code

A UPC-E barcode can be augmented with a five-digit add-on code to form a new one.

**【Disable 5-Digit Add-On Code】

【Enable 5-Digit Add-On Code】

【Decode UPC-E + 5-Digit Add-On Code Only】

Note:

- ✧ **Disable 5-Digit Add-On Code:** The scanner only decodes the main part when scanning a new barcode. It can also decode standard UPC-E barcodes.
- ✧ **Enable 5-Digit Add-On Code:** The scanner decodes a mix of UPC-E barcodes with and without 5-digit add-on codes.
- ✧ **Decode UPC-E + 5-Digit Add-On Code Only:** The scanner only decodes new barcodes combining 5-digit add-on codes.

99900031

**【Enter Setup】

Transmit System Character “0”

The first character of UPC-E barcode is the system character “0”. By default, the scanner does not transmit system character “0”.

**【Do Not Transmit System Character “0”】

【Transmit System Character “0”】

UPC-E Extension

- ✧ **Disable UPC-E Extend:** Transmit UPC-E barcodes as is.
- ✧ **Enable UPC-E Extend:** Extend UPC-E barcodes to make them compatible in length to UPC-A.
- ✧ **Convert UPC-E to UPC-A:** Extend UPC-E barcodes to make them compatible in format to UPC-A.

**【Disable UPC-E Extend】

【Enable UPC-E Extend】

【Convert UPC-E to UPC-A】

99900031

**【Enter Setup】

UPC-A

Restore Default Settings

Scan the barcode below to restore all parameters in UPC-A configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

【Restore the Default Settings of UPC-A】

Enable/Disable UPC-A

UPC-A is enabled by default.

**【Enable UPC-A】

【Disable UPC-A】

Note: If the scanner fails to identify UPC-A barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable UPC-A** barcode.

【Exit Setup】

99900031

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for UPC-A.

To set the Code ID, scan the **Set Code ID for UPC-A** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for UPC-A】

Example: Set the Code ID of UPC-A to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for UPC-A** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

99900031

**【Enter Setup】

Transmit Check Digit

UPC-A is 13 digits in length with the last one as its check digit used to verify the accuracy of the data. By default, the scanner transmits UPC-A check digit.

99911104

**【Transmit UPC-A Check Digit】

99911103

【Do Not Transmit UPC-A Check Digit】

Transmit Preamble Character “0”

The first character of UPC-A barcode is the preamble character “0”. By default, the scanner does not transmit preamble character “0”.

99911113

**【Do not Transmit Preamble Character “0” 】

99911114

【Transmit Preamble Character “0” 】

99900032

【Exit Setup】

99900031

**【Enter Setup】

2-Digit Add-On Code

A UPC-A barcode can be augmented with a two-digit add-on code to form a new one.

99911105

**【Disable 2-Digit Add-On Code】

99911106

【Enable 2-Digit Add-On Code】

99911107

【Decode UPC-A + 2-Digit Add-On Code Only】,

Note:

- ✧ **Disable 2-Digit Add-On Code:** The scanner only decodes the main part when scanning a new barcode. It can also decode standard UPC-A barcodes.
- ✧ **Enable 2-Digit Add-On Code:** The scanner decodes a mix of UPC-A barcodes with and without 2-digit add-on codes.
- ✧ **Decode UPC-A + 2-Digit Add-On Code Only:** The scanner only decodes new barcodes combining 2-digit add-on codes.

**【Enter Setup】

5-Digit Add-On Code

A UPC-A barcode can be augmented with a five-digit add-on code to form a new one.

**【Disable 5-Digit Add-On Code】

【Enable 5-Digit Add-On Code】

【Decode UPC-A + 5-Digit Add-On Code Only】

Note:

- ✧ **Disable 5-Digit Add-On Code:** The scanner only decodes the main part when scanning a new barcode. It can also decode standard UPC-A barcodes.
- ✧ **Enable 5-Digit Add-On Code:** The scanner decodes a mix of UPC-A barcodes with and without 5-digit add-on codes.
- ✧ **Decode UPC-A + 5-Digit Add-On Code Only:** The scanner only decodes new barcodes combining 5-digit add-on codes.

【Exit Setup】

99900031

**【Enter Setup】

Interleaved 2 of 5

Restore Default Settings

Scan the barcode below to restore all parameters in Interleaved 2 of 5 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table"** section in Chapter 7.

【Restore the Default Settings of Interleaved 2 of 5】

Enable/Disable Interleaved 2 of 5

Interleaved 2 of 5 is enabled by default.

**【Enable Interleaved 2 of 5】

【Disable Interleaved 2 of 5】

Note: If the scanner fails to identify Interleaved 2 of 5 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable Interleaved 2 of 5** barcode.

99900032

【Exit Setup】

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Interleaved 2 of 5.

To set the Code ID, scan the **Set Code ID for Interleaved 2 of 5** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Interleaved 2 of 5】

Example: Set the Code ID of Interleaved 2 of 5 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Interleaved 2 of 5** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

Parity Check

A check digit is optional for Interleaved 2 of 5 and can be added as the last digit. It is a calculated value used to verify the accuracy of the data. By default, the scanner does not transmit Interleaved 2 of 5 check digit after parity check.

- ✧ **No Parity Check:** The scanner transmits Interleaved 2 of 5 barcodes as is.
- ✧ **Do Not Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Interleaved 2 of 5 barcode as check digit. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.
- ✧ **Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Interleaved 2 of 5 barcode as check digit. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

99911203

【No Parity Check】

99911204

**【Do Not Transmit Check Digit After Parity Check】

99911205

【Transmit Check Digit After Parity Check】

Note: If the **Do Not Transmit Check Digit After Parity Check** option is enabled, Interleaved 2 of 5 barcodes with a length that is less than the configured minimum length after having the check digit excluded will not be decoded. (For example, when the **Do Not Transmit Check Digit After Parity Check** option is enabled and the minimum length is set to 6, Interleaved 2 of 5 barcodes with a total length of 6 characters including the check digit cannot be read.)

99900031

**【Enter Setup】

Set Length Range for Interleaved 2 of 5

The scanner can be configured to only decode Interleaved 2 of 5 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 5 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Interleaved 2 of 5 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Interleaved 2 of 5 barcodes with that length are to be decoded. The default minimum and maximum lengths are 6 characters and 255 characters respectively.

【Set the Minimum Length】

【Set the Maximum Length】

99900032

【Exit Setup】

99900031

**【Enter Setup】

ITF-6

ITF-6 is a special kind of Interleaved 2 of 5 with a length of 6 characters and the last character as the check character. By default, ITF-6 is disabled.

ITF-6 priority principle: For the Interleaved 2 of 5 barcodes with a length of 6 characters and the last character as the check character, the ITF-6 configurations shall take precedence over the Interleaved 2 of 5 settings.

99911300

【Restore the Default Settings of ITF-6】

99911302

**【Disable ITF-6】

99911301

【Enable ITF-6 But Do Not Transmit Check Digit】

99911303

【Enable ITF-6 and Transmit Check Digit】

Note: An example of the ITF-6 priority principle: when ITF-6 is enabled and Interleaved 2 of 5 is disabled, the scanner only decodes Interleaved 2 of 5 barcodes with a length of 6 characters and the last character as the check character.

99900031

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for ITF-6.

To set the Code ID, scan the **Set Code ID for ITF-6** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for ITF-6】

Example: Set the Code ID of ITF-6 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for ITF-6** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

99900032

【Exit Setup】

**【Enter Setup】

ITF-14

ITF-14 is a special kind of Interleaved 2 of 5 with a length of 14 characters and the last character as the check character. By default, ITF-14 is disabled.

ITF-14 priority principle: For the Interleaved 2 of 5 barcodes with a length of 14 characters and the last character as the check character, the ITF-14 configurations shall take precedence over the Interleaved 2 of 5 settings.

【Restore the Default Settings of ITF-14】

【Enable ITF-14 But Do Not Transmit Check Digit】

**【Disable ITF-14】

【Enable ITF-14 and Transmit Check Digit】

Note: An example of the ITF-14 priority principle: when ITF-14 is enabled and Interleaved 2 of 5 is disabled, the scanner only decodes Interleaved 2 of 5 barcodes with a length of 14 characters and the last character as the check character.

In the events that the ITF-14 configuration clashes with the Deutsche14 settings, the former shall prevail.

【Exit Setup】

99900031

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for ITF-14.

To set the Code ID, scan the **Set Code ID for ITF-14** barcode, the numeric barcodes for the hexadecimal value of a desired ID and the **Save** barcode.

99911404

【Set Code ID for ITF-14】

Example: Set the Code ID of ITF-14 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for ITF-14** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

99900032

【Exit Setup】

99900031

**【Enter Setup】

Deutsche 14

Restore Default Settings

Scan the barcode below to restore all parameters in Deutsche14 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

99911500

【Restore the Default Settings of Deutsche14】

Enable/Disable Deutsche14

Deutsche14 is disabled by default.

99911502

【Enable Deutsche14 But Do Not Transmit Check Digit】

99911501

**【Disable Deutsche14】

99911503

【Enable Deutsche14 and Transmit Check Digit】

Note: It is advised not to enable Deutsche 14 unless necessary, because Deutsche 14, ITF-14 and Interleaved 2 of 5 use the same encoding method and enabling them at the same time can easily cause confusion with each other when decoding.

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Deutsche14.

To set the Code ID, scan the **Set Code ID for Deutsche14** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Deutsche14】

Example: Set the Code ID of Deutsche14 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Deutsche14** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

**【Enter Setup】

Deutsche 12

Restore Default Settings

Scan the barcode below to restore all parameters in Deutsche12 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

【Restore the Default Settings of Deutsche12】

Enable/Disable Deutsche 12

Deutsche12 is disabled by default.

【Enable Deutsche12 But Do Not Transmit Check Digit】

**【Disable Deutsche12】

【Enable Deutsche12 and Transmit Check Digit】

Note: It is advised not to enable Deutsche 12 unless necessary, because Deutsche 12, ITF-12 and Interleaved 2 of 5 use the same encoding method and enabling them at the same time can easily cause confusion with each other when decoding.

【Exit Setup】

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Deutsche12.

To set the Code ID, scan the **Set Code ID for Deutsche 12** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Deutsche12】

Example: Set the Code ID of Deutsche12 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Deutsche12** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

COOP 25 (Japanese Matrix 2 of 5)

Restore Default Settings

Scan the barcode below to restore all parameters in COOP 25 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.


99911700

【Restore the Default Settings of COOP25】

Enable/Disable COOP 25

COOP 25 is disabled by default.


99911702

【Enable COOP 25】


99911701

**【Disable COOP 25】

Note: If the scanner fails to identify COOP 25 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable COOP 25** barcode.

99900032

【Exit Setup】

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for COOP 25.

To set the Code ID, scan the **Set Code ID for COOP 25** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for COOP 25】

Example: Set the Code ID of COOP 25 to "p" (its hexadecimal value is 0x70).

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for COOP 25** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

Parity Check

A check digit is optional for COOP 25 and can be added as the last digit. It is a calculated value used to verify the accuracy of the data. By default, the scanner does not run parity check.

- ✧ **No Parity Check:** The scanner transmits COOP 25 barcodes as is.
- ✧ **Do Not Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of COOP 25 barcode as check digit. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.
- ✧ **Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of COOP 25 barcode as check digit. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

99911703

**【No Parity Check】

99911704

【Transmit Check Digit After Parity Check】

99911705

【Do Not Transmit Check Digit After Parity Check】

Note: If the **Do Not Transmit Check Digit After Parity Check** option is enabled, COOP 25 barcodes with a length that is less than the configured minimum length after having the check digit excluded will not be decoded. (For example, when the **Do Not Transmit Check Digit After Parity Check** option is enabled and the minimum length is set to 4, COOP 25 barcodes with a total length of 4 characters including the check digit cannot be read.)

99900031

**【Enter Setup】

Set Length Range for COOP 25

The scanner can be configured to only decode COOP 25 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 3 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes COOP 25 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only COOP 25 barcodes with that length are to be decoded. The default minimum and maximum lengths are 6 characters and 255 characters respectively.

99911706

【Set the Minimum Length】

99911707

【Set the Maximum Length】

99900032

【Exit Setup】

99900031

**【Enter Setup】

Matrix 2 of 5 (European Matrix 2 of 5)

Restore Default Settings

Scan the barcode below to restore all parameters in Matrix 2 of 5 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table"** section in Chapter 7.

99912000

【Restore the Default Settings of Matrix 2 of 5】

Enable/Disable Matrix 2 of 5

Matrix 2 of 5 is enabled by default.

99912002

**【Enable Matrix 2 of 5】

99912001

【Disable Matrix 2 of 5】

Note: If the scanner fails to identify Matrix 2 of 5 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable Matrix 2 of 5** barcode.

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Matrix 2 of 5.

To set the Code ID, scan the **Set Code ID for Matrix 2 of 5** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Matrix 2 of 5】

Example: Set the Code ID of Matrix 2 of 5 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Matrix 2 of 5** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

**【Enter Setup】

Parity Check

A check digit is optional for Matrix 2 of 5 and can be added as the last digit. It is a calculated value used to verify the accuracy of the data. By default, the scanner does not run parity check.

- ✧ **No Parity Check:** The scanner transmits Matrix 2 of 5 barcodes as is.
- ✧ **Do Not Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Matrix 2 of 5 barcode as check digit. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.
- ✧ **Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Matrix 2 of 5 barcode as check digit. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

**【No Parity Check】

【Transmit Check Digit After Parity Check】

【Do Not Transmit Check Digit After Parity Check】

Note: If the **Do Not Transmit Check Digit After Parity Check** option is enabled, Matrix 2 of 5 barcodes with a length that is less than the configured minimum length after having the check digit excluded will not be decoded. (For example, when the **Do Not Transmit Check Digit After Parity Check** option is enabled and the minimum length is set to 4, Matrix 2 of 5 barcodes with a total length of 4 characters including the check digit cannot be read.)

【Exit Setup】

99900031

**【Enter Setup】

Set Length Range for Matrix 2 of 5

The scanner can be configured to only decode Matrix 2 of 5 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 3 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Matrix 2 of 5 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Matrix 2 of 5 barcodes with that length are to be decoded. The default minimum and maximum lengths are 6 characters and 255 characters respectively.

【Set the Minimum Length】

【Set the Maximum Length】

99900032

【Exit Setup】

99900031

**【Enter Setup】

Industrial 25

Restore Default Settings

Scan the barcode below to restore all parameters in Industrial 25 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

【Restore the Default Settings of Industrial 25】

Enable/Disable Industrial 25

Industrial 25 is enabled by default.

**【Enable Industrial 25】

【Disable Industrial 25】

Note: If the scanner fails to identify Industrial 25 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable Industrial 25** barcode.

99900032

【Exit Setup】

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Industrial 25.

To set the Code ID, scan the **Set Code ID for Industrial 25** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Industrial 25】

Example: Set the Code ID of Industrial 25 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Industrial 25** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

**【Enter Setup】

Parity Check

A check digit is optional for Industrial 25 and can be added as the last digit. It is a calculated value used to verify the accuracy of the data. By default, the scanner transmits check digit after parity check.

- ✧ **No Parity Check:** The scanner transmits Industrial 25 barcodes as is.
- ✧ **Do Not Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Industrial 25 barcode as check digit. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.
- ✧ **Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Industrial 25 barcode as check digit. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

【No Parity Check】

**【Transmit Check Digit After Parity Check】

【Do Not Transmit Check Digit After Parity Check】

Note: If the **Do Not Transmit Check Digit After Parity Check** option is enabled, Industrial 25 barcodes with a length that is less than the configured minimum length after having the check digit excluded will not be decoded. (For example, when the **Do Not Transmit Check Digit After Parity Check** option is enabled and the minimum length is set to 4, Industrial 25 barcodes with a total length of 4 characters including the check digit cannot be read.)

【Exit Setup】

99900031

**【Enter Setup】

Set Length Range for Industrial 25

The scanner can be configured to only decode Industrial 25 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 4 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Industrial 25 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Industrial 25 barcodes with that length are to be decoded. The default minimum and maximum lengths are 6 characters and 255 characters respectively.

99912006

【Set the Minimum Length】

99912007

【Set the Maximum Length】

99900032

【Exit Setup】

99900031

**【Enter Setup】

Standard 25

Restore Default Settings

Scan the barcode below to restore all parameters in Standard 25 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

【Restore the Default Settings of Standard 25】

Enable/Disable Standard 25

Standard 25 is enabled by default.

**【Enable Standard 25】

【Disable Standard 25】

Note: If the scanner fails to identify Standard 25 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable Standard 25** barcode.

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Standard 25.

To set the Code ID, scan the **Set Code ID for Standard 25** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Standard 25】

Example: Set the Code ID of Standard 25 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Standard 25** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

**【Enter Setup】

Parity Check

A check digit is optional for Standard 25 and can be added as the last digit. It is a calculated value used to verify the accuracy of the data. By default, the scanner does not run parity check.

- ✧ **No Parity Check:** The scanner transmits Standard 25 barcodes as is.
- ✧ **Do Not Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Standard 25 barcode as check digit. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.
- ✧ **Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Standard 25 barcode as check digit. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

**【No Parity Check】

【Transmit Check Digit After Parity Check】

【Do Not Transmit Check Digit After Parity Check】

Note: If the **Do Not Transmit Check Digit After Parity Check** option is enabled, Standard 25 barcodes with a length that is less than the configured minimum length after having the check digit excluded will not be decoded. (For example, when the **Do Not Transmit Check Digit After Parity Check** option is enabled and the minimum length is set to 4, Standard 25 barcodes with a total length of 4 characters including the check digit cannot be read.)

【Exit Setup】

99900031

**【Enter Setup】

Set Length Range for Standard 25

The scanner can be configured to only decode Standard 25 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 4 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Standard 25 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Standard 25 barcodes with that length are to be decoded. The default minimum and maximum lengths are 6 characters and 255 characters respectively.

99912206

【Set the Minimum Length】

99912207

【Set the Maximum Length】

99900032

【Exit Setup】

**【Enter Setup】

Code 39

Restore Default Settings

Scan the barcode below to restore all parameters in Code 39 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

【Restore the Default Settings of Code 39】

Enable/Disable Code 39

Code 39 is enabled by default.

**【Enable Code 39】

【Disable Code 39】

Note: If the scanner fails to identify Code 39 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable Code 39** barcode.

【Exit Setup】

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Code 39.

To set the Code ID, scan the **Set Code ID for Code 39** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Code 39】

Example: Set the Code ID of Code 39 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Code 39** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

**【Enter Setup】

Parity Check

A check digit is optional for Code 39 and can be added as the last digit. It is a calculated value used to verify the accuracy of the data. By default, the scanner does not run parity check.

- ✧ **No Parity Check:** The scanner transmits Code 39 barcodes as is.
- ✧ **Do Not Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Code 39 barcode as check digit. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.
- ✧ **Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Code 39 barcode as check digit. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

**【No Parity Check】

【Transmit Check Digit After Parity Check】

【Do Not Transmit Check Digit After Parity Check】

Note: If the **Do Not Transmit Check Digit After Parity Check** option is enabled, Code 39 barcodes with a length that is less than the configured minimum length after having the check digit excluded will not be decoded. (For example, when the **Do Not Transmit Check Digit After Parity Check** option is enabled and the minimum length is set to 4, Code 39 barcodes with a total length of 4 characters including the check digit cannot be read.)

【Exit Setup】

**【Enter Setup】

Transmit Start/Stop Character

Code 39 uses an asterisk (*) for both the start and the stop characters. You can choose whether or not to transmit the start/stop characters by scanning the appropriate barcode below. By default, the scanner transmits the start/stop characters.

**【Transmit Start/Stop Character】

【Do not Transmit Start/Stop Character】

Enable/Disable Code 39 Full ASCII

You can configure your scanner to identify all ASCII characters by scanning the appropriate barcode below. By default, the scanner is able to read all ASCII characters.

【Disable Code 39 Full ASCII】

**【Enable Code 39 Full ASCII】

【Exit Setup】

99900031

**【Enter Setup】

Set Length Range for Code 39

The scanner can be configured to only decode Code 39 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 4 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 39 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 39 barcodes with that length are to be decoded. The default minimum and maximum lengths are 4 characters and 255 characters respectively.

99912412

【Set the Minimum Length】

99912413

【Set the Maximum Length】

Example: Set the scanner to decode Code 39 barcodes containing between 8 and 12 characters.

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the “**Digit Barcodes**” section in Chapter 7)
4. Scan the **Save** barcode. (See the “**Save/Cancel Barcodes**” section in Chapter 7)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcode “1”.
7. Scan the numeric barcode “2”.
8. Scan the **Save** barcode.
9. Scan the **Exit Setup** barcode.

99900031

**【Enter Setup】

Codabar

Restore Default Settings

Scan the barcode below to restore all parameters in Codabar configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

99912500

【Restore the Default Settings of Codabar】

Enable/Disable Codabar

Codabar is enabled by default.

99912502

**【Enable Codabar】

99912501

【Disable Codabar】

Note: If the scanner fails to identify Codabar barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable Codabar** barcode.

99900032

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Codabar.

To set the Code ID, scan the **Set Code ID for Codabar** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Codabar】

Example: Set the Code ID of Codabar to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Codabar** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

**【Enter Setup】

Parity Check

A check digit is optional for Codabar and can be added as the last digit. It is a calculated value used to verify the accuracy of the data. By default, the scanner does not run parity check.

- **No Parity Check:** The scanner transmits Codabar barcodes as is.
- **Do Not Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Codabar barcode as check digit. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.
- **Transmit Check Digit After Parity Check:** The scanner will run a parity check using the last digit of Codabar barcode as check digit. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

**【No Parity Check】

【Transmit Check Digit After Parity Check】

【Do Not Transmit Check Digit After Parity Check】

Note: If the **Do Not Transmit Check Digit After Parity Check** option is enabled, Codabar barcodes with a length that is less than the configured minimum length after having the check digit excluded will not be decoded. (For example, when the **Do Not Transmit Check Digit After Parity Check** option is enabled and the minimum length is set to 4, Codabar barcodes with a total length of 4 characters including the check digit cannot be read.)

【Exit Setup】

99900031

**【Enter Setup】

Start/Stop Character

By default, the scanner transmits start/stop characters which are in the form of “ABCD/ABCD”.

99912506

【Do not Transmit Start/Stop Character】

99912507

**【Transmit Start/Stop Character】

99912510

**【ABCD/ABCD As the Start/Stop Character】

99912511

【ABCD/TN*E As the Start/Stop Character】

99912512

【abcd/abcd As the Start/Stop Character】

99912513

【abcd/tn*e As the Start/Stop Character】

99900032

【Exit Setup】

99900031

**【Enter Setup】

Set Length Range for Codabar

The scanner can be configured to only decode Codabar barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 2 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Codabar barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Codabar barcodes with that length are to be decoded. The default minimum and maximum lengths are 4 characters and 255 characters respectively.

【Set the Minimum Length】

【Set the Maximum Length】

99900032

【Exit Setup】

Code 93

Restore Default Settings

Scan the barcode below to restore all parameters in Code 93 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

【Restore the Default Settings of Code 93】

Enable/Disable Code 93

Code 93 is enabled by default.

**【Enable Code 93】

【Disable Code 93】

Note: If the scanner fails to identify Code 93 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable Code 93** barcode.

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Code 93.

To set the Code ID, scan the **Set Code ID for Code 93** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Code 93】

Example: Set the Code ID of Code 93 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Code 93** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

**【Enter Setup】

Parity Check

Check digits are optional for Code 93 and can be added as the last two digits, which are calculated values used to verify the accuracy of the data. By default, the scanner does not transmit check digits after parity check.

- ✧ **No Parity Check:** The scanner transmits Code 93 barcodes as is.
- ✧ **Do Not Transmit Check Digit After Parity Check:** The scanner will run parity checks using the last two digit of Code 93 barcode as check digits. Barcodes passing the checks will be transmitted except the last two digits, whereas those failing them will not be transmitted.
- ✧ **Transmit Check Digit After Parity Check:** The scanner will run parity checks using the last two digits of Code 93 barcode as check digits. Barcodes passing the checks will be transmitted, whereas those failing them will not be transmitted.

【No Parity Check】

【Transmit Check Digit After Parity Check】

**【Do Not Transmit Check Digit After Parity Check】

Note: If the **Do Not Transmit Check Digit After Parity Check** option is enabled, Code 93 barcodes with a length that is less than the configured minimum length after having the two check digits excluded will not be decoded. (For example, when the **Do Not Transmit Check Digits After Parity Check** option is enabled and the minimum length is set to 4, Code 93 barcodes with a total length of 4 characters including the two check digits cannot be read.)

【Exit Setup】

99900031

**【Enter Setup】

Set Length Range for Code 93

The scanner can be configured to only decode Code 93 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 1 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 93 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 93 barcodes with that length are to be decoded. The default minimum and maximum lengths are 2 characters and 255 characters respectively.

99912606

【Set the Minimum Length】

99912607

【Set the Maximum Length】

99900032

【Exit Setup】

**【Enter Setup】

Code 11

Restore Default Settings

Scan the barcode below to restore all parameters in Code 11 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

【Restore the Default Settings of Code 11】

Enable/Disable Code 11

Code 11 is disabled by default.

【Enable Code 11】

**【Disable Code 11】

Note: If the scanner fails to identify Code 11 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable Code 11** barcode.

【Exit Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Code 11.

To set the Code ID, scan the **Set Code ID for Code 11** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Code 11】

Example: Set the Code ID of Code 11 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Code 11** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

99900031

**【Enter Setup】

Parity Check

Check digits are optional for Code 11 and can be added as the last one or two digits, which are calculated values used to verify the accuracy of the data. By default, the scanner does not transmit check digit after parity check (One Check Digit, MOD11).

If the **No Parity Check** option is enabled, the scanner transmits Code 11 barcodes as is.

99912703

【No Parity Check】

99912704

**【One Check Digit, MOD11】

99912705

【Two Check Digits, MOD11/MOD11】

99912706

【Two Check Digits, MOD11/MOD9】

99912707

【One Check Digit, MOD11 （Len<=10）】

【Two Check Digits, MOD11/MOD11（Len>10）】

99912710

【One Check Digit, MOD11 （Len<=10）】

【Two Check Digits, MOD11/MOD9 （Len>10）】

99912711

**【Do Not Transmit Check Digit】

99912712

【Transmit Check Digit】

Note: If the scanner enables one type of parity check and the **Do Not Transmit Check Digit** option, Code 11 barcodes with a length that is less than the configured minimum length after having the check digit(s) excluded will not be decoded. (For example, when the **One Check Digit, MOD11** and **Do Not Transmit Check Digit** options are enabled and the minimum length is set to 4, Code 11 barcodes with a total length of 4 characters including the check digit cannot be read.)

99900031

**【Enter Setup】

Set Length Range for Code 11

The scanner can be configured to only decode Code 11 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 3 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 11 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 11 barcodes with that length are to be decoded. The default minimum and maximum lengths are 4 characters and 255 characters respectively.

99912713

【Set the Minimum Length】

99912714

【Set the Maximum Length】

Example: Set the scanner to decode Code11 barcodes containing between 8 and 12 characters.

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the “**Digit Barcodes**” section in Chapter 7)
4. Scan the **Save** barcode. (See the “**Save/Cancel Barcodes**” section in Chapter 7)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcode “1”.
7. Scan the numeric barcode “2”.
8. Scan the **Save** barcode.
9. Scan the **Exit Setup** barcode.

99900032

【Exit Setup】

99900031

**【Enter Setup】

Plessey

Restore Default Settings

Scan the barcode below to restore all parameters in Plessey configuration to the factory default settings. To find the related default settings, see the “**Default Parameters Table**” section in Chapter 7.

99913000

【Restore the Default Settings of Plessey】

Enable/Disable Plessey

Plessey is disabled by default.

99913002

【Enable Plessey】

99913001

**【Disable Plessey】

Note: If the scanner fails to identify Plessey barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable Plessey** barcode.

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for Plessey.

To set the Code ID, scan the **Set Code ID for Plessey** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for Plessey】

Example: Set the Code ID of Plessey to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for Plessey** barcode.
3. Scan the programming barcodes for "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

Parity Check

Check digits are optional for Plessey and can be added as the last two digits, which are calculated values used to verify the accuracy of the data. By default, the scanner does not transmit check digits after parity check.

- ✧ **No Parity Check:** The scanner transmits Plessey barcodes as is.
- ✧ **Do Not Transmit Check Digit After Parity Check:** The scanner will run parity checks using the last two digits of Plessey barcode as check digits. Barcodes passing the checks will be transmitted except the last two digits, whereas those failing them will not be transmitted.
- ✧ **Transmit Check Digit After Parity Check:** The scanner will run parity checks using the last two digits of Plessey barcode as check digits. Barcodes passing the checks will be transmitted, whereas those failing them will not be transmitted.

【No Parity Check】

【Transmit Check Digit After Parity Check】

**【Do Not Transmit Check Digit After Parity Check】

Note: If the **Do Not Transmit Check Digit After Parity Check** option is enabled, Plessey barcodes with a length that is less than the configured minimum length after having the check digits excluded will not be decoded. (For example, when the **Do Not Transmit Check Digit After Parity Check** option is enabled and the minimum length is set to 4, Plessey barcodes with a total length of 4 characters including the check digits cannot be read.)

99900031

**【Enter Setup】

Set Length Range for Plessey

The scanner can be configured to only decode Plessey barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 4 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Plessey barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Plessey barcodes with that length are to be decoded. The default minimum and maximum lengths are 4 characters and 255 characters respectively.

99913006

【Set the Minimum Length】

99913007

【Set the Maximum Length】

99900032

【Exit Setup】

99900031

**【Enter Setup】

MSI-Plessey

Restore Default Settings

Scan the barcode below to restore all parameters in MSI-Plessey configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

99913100

【Restore the Default Settings of MSI-Plessey】

Enable/Disable MSI-Plessey

MSI-Plessey is disabled by default.

99913102

【Enable MSI-Plessey】

99913101

**【Disable MSI-Plessey】

Note: If the scanner fails to identify MSI-Plessey barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable MSI-Plessey** barcode.

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for MSI-Plessey.

To set the Code ID, scan the **Set Code ID for MSI-Plessey** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for MSI-Plessey】

Example: Set the Code ID of MSI-Plessey to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for MSI-Plessey** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

Parity Check

Check digits are optional for MSI-Plessey and can be added as the last one or two digits, which are calculated values used to verify the accuracy of the data. By default, the scanner does not transmit check digit after parity check (One Check Digit, MOD10).

If the **No Parity Check** option is enabled, the scanner transmits MSI-Plessey barcodes as is.

【No Parity Check】

**【One Check Digit, MOD10】

【Two Check Digits, MOD10/MOD10】

【Two Check Digits, MOD10/MOD11】

**【Do Not Transmit Check Digit】

【Transmit Check Digit】

Note: If the scanner enables one type of parity check and the **Do Not Transmit Check Digit** option, MSI-Plessey barcodes with a length that is less than the configured minimum length after having the check digit(s) excluded will not be decoded. (For example, when the **One Check Digit, MOD10** and **Do Not Transmit Check Digit** options are enabled and the minimum length is set to 4, MSI-Plessey barcodes with a total length of 4 characters including the check digit cannot be read.)

99900031

**【Enter Setup】

Set Length Range for MSI-Plessey

The scanner can be configured to only decode MSI-Plessey barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 3 to 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes MSI-Plessey barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only MSI-Plessey barcodes with that length are to be decoded. The default minimum and maximum lengths are 4 characters and 255 characters respectively.

99913111

【Set the Minimum Length】

99913112

【Set the Maximum Length】

99900032

【Exit Setup】

99900031

**【Enter Setup】

GS1 Databar

Restore Default Settings

Scan the barcode below to restore all parameters in GS1 Databar configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

99913200

【Restore the Default Settings of GS1 Databar】

Enable/Disable GS1 Databar

GS1 Databar is enabled by default.

99913202

**【Enable GS1 Databar】

99913201

【Disable GS1 Databar】

Note: If the scanner fails to identify GS1 Databar barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable GS1 Databar** barcode.

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for GS1 Databar.

To set the Code ID, scan the **Set Code ID for GS1 Databar** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for GS1 Databar】

Example: Set the Code ID of GS1 Databar to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for GS1 Databar** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

PDF417

Restore Default Settings

Scan the barcode below to restore all parameters in PDF417 configuration to the factory default settings. To find the related default settings, see the “**Default Parameters Table**” section in Chapter 7.

99920100

【Restore the Default Settings of PDF417】

Enable/Disable PDF417

PDF417 is enabled by default.

99920102

**【Enable PDF417】

99920101

【Disable PDF417】

Note:

- If the scanner fails to identify PDF417 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable PDF417** barcode.
- Maximum length supported**:** 2710 bytes.

**【Enter Setup】

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for PDF417.

To set the Code ID, scan the **Set Code ID for PDF417** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

【Set Code ID for PDF417】

Example: Set the Code ID of PDF417 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for PDF417** barcode.
3. Scan the numeric barcodes "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

【Exit Setup】

99900031

**【Enter Setup】

Set Length Range for PDF417

The scanner can be configured to only decode PDF417 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 1 to 2710 bytes. If minimum length is set to be greater than maximum length, the scanner only decodes MSI-Plessey barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only MSI-Plessey barcodes with that length are to be decoded. The default minimum and maximum lengths are 1 byte and 2710 bytes respectively.


99920103

【Set the Minimum Length】


99920104

【Set the Maximum Length】

99900032

【Exit Setup】

99900031

**【Enter Setup】

Sample Barcodes

When reading a PDF417 barcode, you need to scan it horizontally from the top/bottom row of the barcode to the bottom/top.

Apart from the influence of barcode density, consecutive horizontal scans are essential for accomplishing a good read. The greater the row height is, the easier it is to decode a PDF417 barcode.

Listed below are some sample barcodes (15 mil).

【新大陆自动识别技术有限公司】

【12345678901234567890】

【abcdefghijklmnopqrstuvwxyz】

99900032

【Exit Setup】

99900031

**【Enter Setup】

MicroPDF417

Restore Default Settings

Scan the barcode below to restore all parameters in PDF417 configuration to the factory default settings. To find the related default settings, see the "**Default Parameters Table**" section in Chapter 7.

99921100

【Restore the Default Settings of MicroPDF417】

Enable/Disable MicroPDF417

MicroPDF417 is disabled by default.

99921102

【Enable MicroPDF417】

99921101

**【Disable MicroPDF417】

Note:

- If the scanner fails to identify MicroPDF417 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable MicroPDF417** barcode.
- Maximum length supported: 366 bytes.

Set Code ID

Code ID can only consist of one or two English letters. See the "**Code ID Table**" section in Chapter 7 to find the default Code ID for MicroPDF417.

To set the Code ID, scan the **Set Code ID for MicroPDF417** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

99921115
【Set Code ID for MicroPDF417】

Example: Set the Code ID of MicroPDF417 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code ID for MicroPDF417** barcode.
3. Scan the programming barcodes for "7" and "0". (See the "**Digit Barcodes**" section in Chapter 7)
4. Scan the **Save** barcode. (See the "**Save/Cancel Barcodes**" section in Chapter 7)
5. Scan the **Exit Setup** barcode.

99900031

**【Enter Setup】

Set Length Range for MicroPDF417

The scanner can be configured to only decode MicroPDF417 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.

Both lengths can range from 1 to 366 bytes. If minimum length is set to be greater than maximum length, the scanner only decodes MSI-Plessey barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only MSI-Plessey barcodes with that length are to be decoded. The default minimum and maximum lengths are 1 byte and 366 bytes respectively.

99921103

【Set the Minimum Length】

99921104

【Set the Maximum Length】

99900032

【Exit Setup】

99900031

**【Enter Setup】

Sample Barcodes

When reading a MicroPDF417 barcode, you need to scan it horizontally from the top/bottom row of the barcode to the bottom/top.

Apart from the influence of barcode density, consecutive horizontal scans are essential for accomplishing a good read. The greater the row height is, the easier it is to decode a MicroPDF417 barcode.

Listed below are some sample barcodes (15 mil).

【新大陆自动识别技术有限公司】

【12345678901234567890】

99900032

【Exit Setup】

99900031

**【Enter Setup】

【abcdefghijklmnopqrstuvwxyz】

99900032

【Exit Setup】

Chapter 7 Appendix

Default Parameters Table

Parameter		Default	Remark
General Settings			
Setup Mode		Enabled	
Programming Barcode Data		Do not send	
Scan Mode		Manual Mode	
Decode Session Timeout		15 seconds	00~15 (00: Infinite; 01~15: 1~15sec)
Timeout between Decodes		1 second	00~15 (0~7.5sec)
Sensitivity		High Sensibility	Applicable to the Sense mode
Security		Level 1	
Decode Beep		Medium-Pitched Loud Beep, 150ms	Beep notification after good decode
Number of Barcodes per Scan		Read One Barcode Nearest to the Center Per Scan	
Output Interval		0ms	
Reread Same Barcode	Auto Mode	Disabled	
	Continuous Mode	Enabled	
	Sense Mode	Enabled	
Timeout between Decodes (Same Barcode) (For the Continuous and Sense modes only)		1.6 seconds	0~120 (0~12.0s); 127: Infinite
Recalculate Timeout After Good Read		Enabled	Applicable to the Auto mode
Communication Settings			
Baud Rate		9600bps	

Parameter	Default	Remark
Parity Check	None	
Stop Bit	1 bit	
Flow Control	None	
Data Bits	8 bits	
USB HID-KBW	Enabled	
Keyboard Layout	1- US (English)	
Inter-Character Delay	0ms	00-15(0-75ms)
Convert Case	No Case Conversion	
Num Lock	Off	
Data Formatting		
Prefix Sequence	Code ID+Custom+AIM ID	
AIM ID Prefix	Disabled	
Code ID Prefix	Disabled	1 or 2 English letters
Custom Prefix	Disabled	Max. length: 11 characters
Custom Suffix	Disabled	Max. length: 11 characters
Terminating Character Suffix	Enabled	
Terminating Character	0x0D,0x0A	
Symbologies		
Code128		
Code 128	Enabled	
Maximum Length	255	
Minmum Length	1	
UCC/EAN-128		
UCC/EAN-128	Enabled	

Parameter	Default	Remark
Maximum Length	255	
Minmum Length	1	
AIM128		
AIM 128	Disabled	
Maximum Length	255	
Minmum Length	1	
EAN-8		
EAN-8	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Decode EAN-8 + 2-digit Add-On Code Only	Disabled	
Decode EAN-8 + 5-digit Add-On Code Only	Disabled	
Extend to EAN-13	Disabled	
Convert to EAN-13	Disabled	
EAN-13		
EAN-13	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Decode EAN-13 + 2-digit Add-On Code Only	Disabled	
Decode EAN-13 + 5-digit Add-On Code Only	Disabled	
ISSN		
ISSN	Disabled	

Parameter	Default	Remark
ISBN		
ISBN	Disabled	
ISBN Format	ISBN-13	
UPC-E		
Enable	On	
Send the Check Character	On	
Read 2-Digits Extracode	Off	
Read 5-Digits Extracode	Off	
Extracode is Required, 2-digits	Off	
Extracode is Required, 5-digits	Off	
Extend to UPC-A	Off	
Type is UPC-A when Extend	Off	
System Character “0”	Do not transmit	
UPC-A		
UPC-A	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Decode UPC-A + 2-digit Add-On Code Only	Disabled	
Decode UPC-A + 5-digit Add-On Code Only	Disabled	
Preamble Character “0”	Do not transmit	
Interleaved 2 of 5		
Interleaved 2 of 5	Enabled	
Parity Check	Enabled	

Parameter	Default	Remark
Check Digit	Do not transmit	
Maximum Length	255	
Minimum Length	6	Min. length supported: 5
ITF-6		
ITF-6	Disabled	
Check Digit	Do not transmit	
ITF-14		
ITF-14	Disabled	
Check Digit	Do not transmit	
Deutshe 14		
Deutshe 14	Disabled	
Check Digit	Do not transmit	
Deutshe 12		
Deutshe 12	Disabled	
Check Digit	Do not transmit	
COOP25 (JapaneseMatrix 2 of 5)		
COOP 25	Disabled	
Parity Check	Disabled	
Check Digit	Do not transmit	
Maximum Length	255	
Minimum Length	6	Min. length supported: 3
Matrix 2 of 5(European Matrix 2 of 5)		
Matrix 2 of 5	Enabled	
Parity Check	Disabled	

Parameter	Default	Remark
Check Digit	Do not transmit	
Maximum Length	255	
Minimum Length	6	Min. length supported: 3
Industrial 25		
Industrial 25	Enabled	
Parity Check	Disabled	
Check Digit	Do not transmit	
Maximum Length	255	
Minimum Length	6	Min. length supported: 4
Standard 25		
Standard 25	Enabled	
Parity Check	Disabled	
Check Digit	Do not transmit	
Maximum Length	255	
Minimum Length	6	Min. length supported: 4
Code 39		
Code 39	Enabled	
Parity Check	Disabled	
Check Digit	Do not transmit	
Start/Stop Character	Transmit	
Code 39 Full ASCII	Enabled	
Maximum Length	255	
Minimum Length	4	Min. length supported: 4 (including start/stop characters and check digit)

Parameter	Default	Remark
Codabar		
Codebar	Enabled	
Parity Check	Disabled	
Check Digit	Do not transmit	
Start/Stop Character	ABCD/ABCD format Transmit	
Maximum Length	255	
Minmum Length	4	Min. length supported: 2
Code 93		
Code 93	Enabled	
Parity Check	Enabled	
Check Digit	Do not transmit	
Maximum Length	255	
Minimum Length	2	Min. length supported: 1
Code 11		
Code 11	Disabled	
Check Digit	Do not transmit	
Parity Check	Enabled 1 Check Digit, MOD11	
Maximum Length	255	
Minimum Length	4	Min. length supported: 3
Plessey		
Plessey	Disabled	
Parity Check	Enabled	
Check Digit	Do not transmit	

Parameter	Default	Remark
Maximum Length	255	
Minimum Length	4	Min. length supported: 4
MSI-Plessey		
MSI-Plessey	Disabled	
Check Digit	Do not transmit	
Parity Check	Enabled 1 Check Digit, MOD10	
Maximum Length	255	
Minimum Length	4	Min. length supported: 3
GS1 Databar		
GS1 Databar	Enabled	
PDF417		
PDF 417	Enabled	
Maximum Length	2710	
Minimum Length	1	
MicroPDF417		
MicroPDF417	Disabled	
Maximum Length	366	
Minimum Length	1	

AIM ID Table

Barcode	AIM ID	Possible AIM ID Parameters
Code 128	]C0	
UCC/EAN-128	]C1	
AIM 128	]C2	
ISBT 128	]C4	
EAN-8	]E4	
EAN-13	]E0	
EAN-13 with Addon	]E3	
ISSN	]X0	
ISBN	]X0	
UPC-E	]E0	
UPC-E with Addon	]E3	
UPC-A	]E0	
UPC-A with Addon	]E3	
Interleaved 2 of 5	]Im	0,1,3
ITF-6	]Im	1,3
ITF-14	]Im	1,3
Deutsche 14	]X0	
Deutsche 12	]X0	
COOP 25（Japanese Matrix 2 of 5）	]X0	
Matrix 2 of 5(European Matrix 2 of 5)	]X0	
Industrial 25	]S0	
Standard 25	]R0	
Code 39	]Am	0,1,3,4,5,7
Codabar	]Fm	0,2,4
Code 93	]G0	
Code 11	]Hm	0,1,3
Plessey	]P0	
MSI-Plessey	]Mm	0,1
GS1 Databar	]e0	
PDF417	]Lm	0,1,2
MicroPDF417	]Lm	3,4,5

Note: “m” represents the AIM modifier character. Refer to ISO/IEC 15424:2008 Information technology – Automatic identification and data capture techniques – Data Carrier Identifiers (including Symbology Identifiers) for AIM modifier character details.

Code ID Table

Barcode	Code ID
Code 128	j
UCC/EAN-128	u
AIM 128	f
ISBT 128	t
EAN-8	g
EAN-13	d
ISSN	n
ISBN	B
UPC-E	h
UPC-A	c
Interleaved 2 of 5	e
ITF-6	r
ITF-14	q
Deutsche 14	w
Deutsche 12	l
COOP 25（Japanese Matrix 2 of 5）	o
Matrix 2 of 5(European Matrix 2 of 5)	v
Industrial 25	i
Standard 25	s
Code 39	b
Codabar	a
Code 93	y
Code 11	z
Plessey	p
MSI-Plessey	m
GS1 Databar	R
PDF417	P
MicroPDF417	M

Digit Barcodes

After scanning numeric barcode(s), you need to scan the **Save** barcode on the next page to save the data.

0~9

【0】

【5】

【1】

【6】

【2】

【7】

【3】

【8】

【4】

【9】

A~F

【A】

【B】

【C】

【D】

【E】

【F】

Save/Cancel Barcodes

After reading numeric barcode(s), you need to scan the **Save** barcode to save the data. If you scan the wrong digit(s), you can either scan the **Cancel the Current Settings** barcode and then start the configuration all over again, or scan the **Delete the Last Digit** barcode and then the correct digit, or scan the **Delete All digits** barcode and then the digits you want.

For instance, after reading the **Maximum Length** barcode and numeric barcodes “1”, “2” and “3”, you scan:

- ✧ **Delete the Last Digit:** The last digit “3” will be removed.
- ✧ **Delete All Digits:** All digits “123” will be removed.
- ✧ **Cancel:** The maximum length configuration will be canceled. And the scanner still remains ready to read programming barcode.

【Save】

【Cancel】

【Delete the Last Digit】

【Delete All Digits】

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