RL3200CB
1D Barcode Scanner
User Manual

Tech Support:

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V.1

Before starting using this reader, please read the instruction carefully and do not arbitrarily scan the setting barcodes otherwise some settings may temporarily not functioning. Please keep this user manual properly.

Technical support:

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realinn@126.com

Please write down the scanner model and the detailed information of the barcode scanner problem, which will help us understand the specific problem and send you a solution in time.

Contents

Technical Parameter

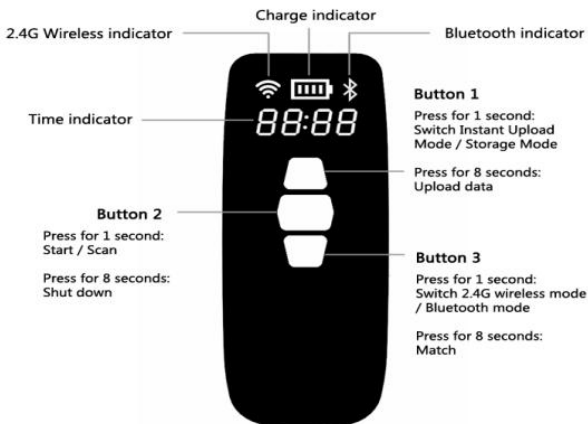|	
Model-Number	RL3200CB
Connection	Bluetooth + 2.4GHz Wireless + Wired
Distance	≤50m （Bluetooth），≤100m （Wireless）
Memory	16M = 100000 barcodes
Battery capacity	1500mAh
Sensor	CCD Image Sensor
Working current	3.5V
Charging power	5V-400mA
Printing Contract	>25%
Decoding accuracy	≥3.3mil@PCS90% CODE39
LED life	10000 hours
Button life	8000,000 times
Trigger Mode	Manual Trigger, Continuous Scanning, Auto-Sensing
Upload mode	Instant upload mode, Storage mode
Working time	Full load≈18hours, Normal use ≈3 to 10 days
CPU	ARM 32-bit Cortex
Indication	Buzzer，LED，Vibrate
Scanning angle	Angle of rotation36°, inclination± 60°,declination ± 60°
Drop test	2.0m
Working Temperature	-20℃ to 50℃
Barcode Type	1D: UPC, EAN, Code39, Code32, Codabar, Code128, Code93, Interleaved 2 of 5, ITF14, Industrial 2 of 5, Standard 2 of 5, Code 11, MSI/Plessey, GS1 Databar, Matrix 2 of 5.

Packing List

Barcode Scanner * 1, Mini USB receiver * 1, Micro-USB Cable * 1
User Manual * 1, Short lanyard * 1, Long lanyard * 1

Eyelets for threading the
provided lanyards

Product Introduction

2.4G Wireless indicator —

Charge indicator

Bluetooth indicator

Time indicator —

88:88

Button 1
Press for 1 second:
Switch Instant Upload
Mode / Storage Mode

Press for 8 seconds:
Upload data

Button 2
Press for 1 second:
Start / Scan

Press for 8 seconds:
Shut down

Button 3
Press for 1 second:
Switch 2.4G wireless mode
/ Bluetooth mode

Press for 8 seconds:
Match

Mode Indicator

	Slow Blinking	**Quick Blinking**
2.4G Wireless indicator	2.4G Wireless Mode	2.4G Wireless Pairing Status
Bluetooth indicator	Bluetooth Mode	Bluetooth Pairing Status

Screen Time Setting

Please visit the website : http://www.barcoderead.net/time.html

Scan the setting code on the screen to adjust the time which displayed on the screen of scanner. The time displayed on this web page is synchronized with the time displayed on your computer. Please ensure that the time displayed on your computer is correct.

Button Function Instruction

By default, the functions of Button 1 and Button 3 are turned off. Before opening the button function, please read the introduction about button operation in detail.

Button 1 : (Turn Off By Default)
(1) Press Button 1 for 1 second - Instant upload mode / Storage mode switch
(2) Press Button 1 for 8 seconds - Upload stored data

Button 2 :
(1) Press Button 2 for 1 second - Turn on the bar code scanner / Scan barcodes
(2) Press Button 2 for 8 seconds - Turn off the bar code scanner

Button 3 : (Turn Off By Default)
(1) Press Button 2 for 1 second - 2.4Ghz wireless mode / Bluetooth mode switch
(2) Press Button 2 for 8 seconds - Linking to a Host

Turn on/off Button function:
Note 1 : The function of button 1, 3 is turned off by default. Please scan the setting bar code "Button 1,3 - On" before using Button 1 and Button 3.
Note 2 : To prevent pressing Button 1 or Button 2 by mistake during scan barcodes, please scan the setting code "Button 1,3-off " .

Button 1,3 - On

Button 1,3-off*

1. How to link the reader to a Bluetooth ready device through the operation button ?

(1) Press Button 2 to wake up the bar code scanner.
(2) Press Button 3 for 1 second to switch the pairing mode to Bluetooth Pairing mode.
(3) Press Button 3 for 8 seconds. The Bluetooth indicator flashing quickly indicates that the scanner is discoverable by the Host.
(Alternatively, you can scan setting codes "Bluetooth HID" and " Pairing" in order, and then the bar code scanner will become automatically discoverable by the Host. See Bluetooth Pairing on page 5)
(4) On the Host,use the dedicated Bluetooth application to search for new devices. Select the" Bar Code Scanner HID" from the list of available devices. If you receive an error message, it may be necessary to disable security on the device.
(5) When the scanner finish pairing with the Host, the Bluetooth indicator remains on and the buzzer beeps "di" .

2. How to switch the pairing mode from Bluetooth mode to Wireless mode ?

(1) Press Button 2 to wake up the bar code scanner.
(2) Press Button 3 for 1 second to switch the paring mode to 2.4GHz Wireless Pairing mode. The 2.4GHz wireless indicator shows up.
(3) Press Button 3 for 8 seconds. The 2.4GHz Wireless indicator flashing quickly that the scanner is ready to connect to the device.
(4) Insert the USB receiver into USB port of device (Make sure the USB receiver is recognized by the device)The bar code scanner will pair to the device automatically, the 2.4GHz Wireless indicator will remains on and the buzzer beeps" di" (If the 2.4GHz wireless indicator keep flashing, please follow the 2.4GHz Wireless Paring Mode introduction on page 7 to operate the scanner)

Note : After switching to Bluetooth Pairing Mode, the scanner will pair to the previous paired device automatically. If not, please operate " forget the device "on the Bluetooth application of device and then follow Bluetooth Pairing introduction on page 5 to re-connect the device.

Quick Start Guide

The RL3200CB scanner has three connection modes: Bluetooth Pairing Mode + 2.4GHz Wireless Mode + Wired Mode

It is suggested to use 2.4GHz Wireless Mode & Wired mode on computers, use Bluetooth Wireless mode on the smart phones, tablets.

Pairing Mode

1.1 Bluetooth Pairing

To pair with a Bluetooth enabled host:

Step 1. Press the Button 2 to wake up the bar code scanner. Scanner beeps at a series of high frequency tones.

Step 2. Scan below "Bluetooth HID" and "Pairing" codes in order. The Bluetooth indicator blinks quickly indicating that the scanner is discoverable by the Host.

Bluetooth HID

Pairing

Step 3. On the Host, use the dedicated Bluetooth application to search for new devices. Select the "Bar Code Scanner HID" from the list of available devices. When the scanner finish pairing with the Host, the Bluetooth indicator remains on and the buzzer beeps "di".

Step 4. Scan "Instant upload mode" code allow the scanner to upload barcodes to host instantly.

Instant upload mode

Step 5. Open the Notepad or Word in the Host, put the cursor on the blank, read labels for testing. When scanner decodes successfully r,the scanner will beeps once and vibrates once(The beeper and vibration indication can be turned off. See Decoding Volume Setting on page 18 and Vibrate setting on page 19)

Note : After pairing to the Host, the keyboard in the Host will not appear automatically.

For iOS keyboard:

Method 1: To show or hide the iOS keyboard , please scan below "Show/Hide iOS keyboard"

Show/Hide iOS keyboard

Method 2: Double click Button 2 twice quickly to show or hide the iOS keyboard. This button function is able to turn off if users do not need it.

Double Click Show/Hide iOS keyboard-On *

Double Click Show/Hide iOS keyboard-Off   ****** To show the Android keyboard on in the Host, it needs to install the "CILICO Bluetooth barcode input method" APP. Please contact us (server@realinn.cn) for the app and tutorial.

Note 3: When uploading the barcode to the host, if some characters

6

of the barcode are missing, please try to slow down the transmission speed.

High Speed*

Medium Speed

Low Speed

Very Low Speed

1.2 2.4GHz Wireless Pairing

The scanner is already paired with the provided mini USB receiver in factory.Plug and play. If the scanner does not connect to host as expected, please connect the scanner to the host follow below steps.

To connect to a computer :

Step 1. Press the Button 2 to wake up the barcode scanner. Scanner beeps at a series of high frequency tones.

Step 2. Scan below" 2.4GHz Wireless Mode " and " Pairing " in order. The 2.4GHz wireless indicator blinks quickly indicating that the scanner is ready to connect to the host.

2.4GHz Wireless Mode

Pairing

Step 3. Unplug the USB receiver and then insert the USB receiver into the USB port of computer again.The scanner beeps " di "two times at lowest frequency, indicate that the scanner connect to computer successfully.

7

Step 4. Scan "Instant upload mode" code allow the scanner to upload barcodes to host instantly.

Instant upload mode

Step 5. Open the Notepad or Word in the Host, put the cursor on the blank. Read labels for testing. When scanner decodes successfully r,the scanner will beeps once and vibrates once(The beeper and vibration indication can be turned off. See Decoding Volume Setting on page 18 and Vibrate setting on page 19)

Note 1: If fail to connect the scanner to computer, please unplug the mini USB receiver and then plug the USB receiver into the USB port again, repeat the connection steps above.

Note 2: If you want to switch the connection mode back to Bluetooth mode, please press the Button 3 for 1 second or scan "Bluetooth HID" and " Pairing " in order. See Button Function Instruction on page 3 or " Bluetooth Pairing" on page 5.

Note 3: If the scanner is not paired with the USB receiver within 1 minute, it will exit the the pairing status automatically.

1.3 Wired Mode

Step 1. Connect the scanner to computer via the provided USB cable. After connect the scanner to computer, the scanner will automatically switch to Wired Mode.The wireless indicator and the Bluetooth indicator will disappear.

Step 2. Open the Notepad or Word in the Host, put the cursor on the blank, read labels for testing. When scanner decodes barcode successfully ,the scanner will beeps once and vibrates once(The beeper and vibration indication can be turned off. See Decode Beeper Setting on page 18 and Vibration setting on page 19)

Note 1:

After unplugging the USB cable, the scanner will automatically switch to Bluetooth Pairing Mode or 2.4GHz Wireless Mode.

Charging The Scanner

1. Battery Level

Open the Notepad or Word, put the cursor on the blank,scan "Battery Level" code and users will know how much battery is left. For example "Battery : 100% " .

Battery Level

2. Charging the scanner

Refer to the Charge Indicator on the screen or scan " Remaining battery " setting code above.When it indicates the level of the battery is 10% or lower, please charge the scanner in time.

Option 1. The scanner can be charged by connecting the scanner directly to a computer through the micro-USB connector. You can use the provided USB cable for this purpose.

Micro-USB Connector
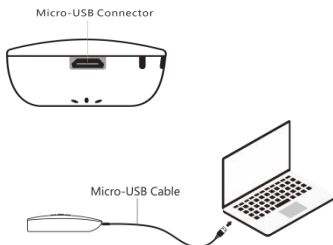
Micro-USB Cable

Option 2. Charging the scanner via a wall plug connector (usually used to charge smartphones) and the provided micro-USB cable.

Micro-USB Cable

Wall Plug Connector
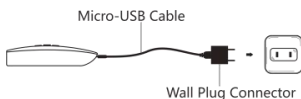
Note 1 :

The battery charging indication shown on the screen.While charging ,the LED (Charge indicator) is blinking.

Note 2 :

When the scanner is turned off, there is no indication appears when the scanner is charging. To make sure the scanner is on charging,please turn it on.

10

FAQS:

Q1. If I scan a label barcode, will it include the name of the producing the file automatically?

The scanner works like a keyboard. The scanner does not interpret what the barcode is, it just "types" out a string of alphabet numeric characters that the barcode represents.

it's up to the database software you are using to interpret what that string of characters means. Once you acquire the barcodes, you have to correlate them to something more meaningful by either purchasing a software service that will interpret the barcode and relate it to a product, or you can use your own internal inventory system to assign the barcodes to specific products.

After creating the relationship between your barcode and the corresponded information ,when you enter the barcode into the software by the scanner,your software will look up the barcode and then output the related information of your product.

Q2. My smart phone can not find the scanner.

A. Make sure the phone is android 3.0 or above, it can be connected directly

B. The scanner was set to Wired Mode and 2.4GHz Wireless Mode. Or the scanner is not in pairing status.
Please unplug the USB cable and USB receiver from USB ports first, and then scan the setting code "Bluetooth HID" " Pairing" to switch the connection mode.

C. The scanner has been connected to other smartphone. Please delete/forget the " Bar Code Scanner HID " from the list of available device on that smartphone.

Q3. Scanner is connected, but the barcode can not be uploaded to my phone/tablet/PC.

The scanner is in storage mode. All decoded barcodes are stored in the buffer of scanner.

Please scan the setting code "Instant Upload Mode" on page 15.

Q4. Some barcodes can not be read, why?

A. Incomplete and unclear barcodes might not be read.

B. It is possible that the setting is off by default for some barcode types which are not commonly used. You need activate a specific barcode type (on page 23) to get it working. Please feel free to contact our Customer Service Team for further assistance if you don't know the exact type of barcode that you are referring to.

Q5. Why does scanner not read the barcode exactly. When I use the scanner to read a barcode of an item, I get a different result from the barcode itself.

Example 1, There are two separate barcodes together. It scanned the first 12 digits in the barcode but not the last five.

Solution: Please scan setting code "UPCA 2/5 Extra Code -ON" on page 23.

Example 2, The original barcode is "abc12345", the scanning result is "+A+B+C+D12348", insert "+" between characters.

Solution: Please scan the setting code "Code 39 Full ASCII-ON" on page 26.

Example 3, Scan Codabar barcode.The original barcode is "123456" , but the scanning result is "A123456A" or " A123456B ".
Solution: Please scan the setting code "Output Start&Stop Digit- OFF" on page 27.

Example 4,Scan Code 39 barcode.The original barcode is "123456" ,but the scanning result is " *123456* ".

Solution: Please scan the setting code "Output Start&Stop Digit - OFF" on page 26.

Example 5, A UPCE barcode" 01234567 ",has 8 digits. The system request to input 12 digits.

Solution: Please scan the setting code "UPCE to UPCA - ON" on page 24.

Q6. Is there any barcodes to remove auto-enter after every scanning?

To remove the auto-enter, please read the code "None" on page 18.

If none of the above is the problem you encountered, please send us a clear bar code picture and the result you got, our customer service will help you solve the problem.

Optional Function Settings

The reader is factory-configured with a set of standard default features. You can select other options and customize your reader through programming bar codes in this booklet.

1. Scanning Modes

The scanner can operate in one of several scanning modes.

1.1 Manual Trigger Mode

When press the Button 2, the CCD red light shows up and and the scanner attempts to read a label.

Manual Trigger Mode

1.2 Continuous Scanning Mode

There's no need to press the Button 2 in this scanning mode. The CCD red light of the scanner will be on all the time.

Continuous Scanning Mode

1.3 Auto-Sensing Mode

There is no need to press the Button 2 in this scanning mode.Shaking the scanner slightly, or something passes by the scanning window the CCD red light will shows up. Putting the label under the CCD red light, the scanner will read it.

Auto-Sensing Mode

2. Uploading Modes

The scanner can operate in one of two uploading modes.

2.1 Instant Upload Mode

After scanning label , the decoded barcode will be instantly uploaded to where the cursor is. The buzzer beeps " di " when the scanner successfully read and upload the decoded barcode.

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||| |||||||||| ||| ||| ||| ||||||||| |||
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Instant Upload Mode*

2.2 Storage Mode

In storage mode, all decoded barcodes will stored in the memory of the scanner and will not be uploaded to the Host instantly. You can batch upload all decoded barcode by scanning the setting code" Upload data "

An operation in storage mode is strongly recommended under the following scenarios:

1) During the scanning process, the device often leaves the Bluetooth / wireless signal range;

2) Due to a high quantity of blocking objects, the Bluetooth / wireless signal's stability can't be ensured.

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Storage Mode

** To batch upload all decoded barcodes, scan setting code" Upload Barcodes "

Upload Decoded Barcodes

** To show total number of batch decoded barcodes, open the Notepad or Word,put the cursor on the blank, and then scan the "Show total storage" setting code. It will inputs "The total numbers：xxxxxxx" .

Show Total Numbers

** To clear all decoded barcodes, scan setting code " Clear Decoded Barcodes " .

Clear Decoded Barcodes

Note: Do not read setting code " Clear Decode Barcodes" in mistake. Once scan setting code" Clear Decoded Brcodes" , all data will be cleared immediately. The data will no longer be restored.

3. Auto Power Off Setting

By default, the scanner will turned off automatically if there is no operation on it over 5 mins. Pressing the Button 2 for 1 second can wake scanner up.

To change the sleeping time interval, scan one of the following setting code to set the time interval, when it's idle exceeding the time interval you set, the scanner will enter into standby mode.

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30 Seconds

|||||||||||||||||||||||||||||||||||||

1 Minute

|||||||||||||||||||||||||||||||||||||

2 Minutes

|||||||||||||||||||||||||||||||||||||

5 Minutes*

|||||||||||||||||||||||||||||||||||||

10 Minutes

|||||||||||||||||||||||||||||||||||||

30 Minutes

|||||||||||||||||||||||||||||||||||||

No sleeping

|||||||||||||||||||||||||||||||||||||

Power Off

4. Capital & Lowercase Switch
The scanner can change the letter case of barcode into uppercase or lowercase.

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All Capital

|||||||||||||||||||||||||||||||||||||

All Lowercase

|||||||||||||||||||||||||||||||||||||

Capital&Lowercase
Switched-disable

17

5. Beep Tone Setting

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High Tone

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Low Tone

6. Decoding Volume Setting

||||||||||||||||||||||||||||||

High Volume*

||||||||||||||||||||||||||||||

Medium Volume

||||||||||||||||||||||||||||||

Low Volume

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Beep Off

Note: Once scan the setting code "Beep Off", the decoding sound and the shutdown sound turned off at the same time. The sound of turn on scanner can not be turned off.

7. Terminator Setting

To add Tab after barcode , scan the code "Tab"
To add Enter after barcode , scan the code "Carriage Return "
To set no-termination, scan the code "None"

||||||||||||||||||||||||||||||

Carriage Return

||||||||||||||||||||||||||||||

Tab

||||||||||||||||||||||||||||||

None

8. Vibrate Setting

The scanner includes a motor that,when configured to be enabled,can vibrate after a successful decode.

Vibrate - Enable

Vibrate - Disable

9. Resetting Standard Product Default

If you've changed some options, or read the wrong programming labels and want the factory settings restored, scan below setting code.

Restore default

Note 1: The scanner is in Bluetooth Pairing Mode by default. After restoring the scanner, you need to reconnect the scanner to Host via Bluetooth Pairing or 2.4GHz Wireless Pairing(See Bluetooth Pairing on page 5 , 2.4GHz Wireless Pairing on page 7)

Note 2: The Module Setting 1, 12, 13 can not controlled by the "Restore default" code.

10. Language Setting

The scanner support 10 international keyboards.
You are suggested to set the keyboard language of the scanner to be in agreement with the input method of device that in real use by scanning the correspondent barcode listed below.

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American English *

|||||||||||||||||||||||||||
German

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French

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Spanish

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Portuguese

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Italian

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Czech

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British English

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German (IOS)

|||||||||||||||||||||||||||
Belgian(French)

|||||||||||||||||||||||||||
Russian

|||||||||||||||||||||||||||
Brazil (Portuguese)

|||||||||||||||||||||||||||
Japanese

|||||||||||||||||||||||||||
Universal

11. Time Stamp

Please correct the time displayed first , see Screen Time Setting on page 3.

11.1 Show Current Time

**Scan the setting code" Show Current Time " , the time stamp will be uploaded where the cursor is. Shown as "20XX/XX/XX 00:00:00" .

Show Current Time

11.2 Add Time Stamp Before/After Barcode

**After scanning the setting code "Add Time Stamp Before Barcode" , the time stamp will show before barcode when scan labels. Shown as" 20XX/XX/XX 00:00:00 123456789" .

Add Time Stamp Before Barcode

**After scanning the setting code "Add Time Stamp After Barcode" , the time stamp will show after barcode when scan labels. Shown as" 123456789 20XX/X/X 00:00:00" .

Add Time Stamp After Barcode

**Scan "Time Stamp Cancel" to cancel time stamp setting.

Time Stamp Cancel

12. Identify Barcode Type

This setting is to identify what type of the barcode is, follow the below steps to confirm:

Situation 1: Scan the code "Bar Code ID-ON" below, then scan your goal barcode, there will be a character BEFORE the barcode you scanned, and this character states your Barcode Type. After that, if you don't need this prefix any more, please scan the code "Bar Code ID-OFF (default)" to hide it.

Bar Code ID-ON		Bar Code ID-OFF*	
All Bar Codes Types and Bar Code ID			
UPCA	A	Interleaved 2 of 5	N
UPCE	B	ITF-6	O
EAN8	C	ITF-14	P
EAN13	D	Matrix 2 of 5 (Europe)	S
ISSN	E	Matrix 2 of 5 (Japan)	T
ISBN	F	industrial 25	U
CODE128	G	Standard 25	V
GS1-128	H	CODABAR	W
ISBT 128	J	Plessey	X
CODE39	K	MSI-Plessey	Y
CODE93	L	GS1 Databar	Z

| CODE11 | M | | |

13. Barcode Type on/Off

1D Code (white in black background)

White in black background-ON

White in black background-OFF*

UPCA

UPCA-ON*

UPCA-OFF

UPCA Check Digit-ON*

UPCA Check Digit-OFF

UPCA Leading Digit-ON*

UPCA Leading Digit-OFF

UPCA 2 Extra Code-ON

UPCA 2 Extra Code-OFF*

UPCA 5 Extra Code-ON

UPCA 5 Extra Code-OFF*

UPCA to EAN13-ON

UPCA to EAN13-OFF*

UPCE

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UPCE-ON*

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UPCE-OFF

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UPCE Check Digit-ON*

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UPCE Check Digit-OFF

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UPCE Leading Digit-ON

‖‖‖ ‖‖‖ ‖‖‖ ‖‖‖ ‖‖
UPCE Leading Digit-OFF*

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UPCE 2 Extra Code-ON

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UPCE 2 Extra Code-OFF*

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UPCE 5 Extra Code-ON

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UPCA 5 Extra Code-OFF*

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UPCE to UPCA-ON

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UPCE to UPCA-OFF*

EAN8

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EAN8-ON*

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EAN8-OFF

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EAN8 Check Digit-ON*

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EAN8 Check Digit-OFF

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EAN8 2 Extra Code-ON

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EAN8 2 Extra Code-OFF*

EAN8 5 Extra Code-ON

EAN8 5 Extra Code-OFF*

EAN13

EAN13-ON*

EAN13-OFF

EAN13 Check Digit-ON*

EAN13 Check Digit-OFF

EAN13 2 Extra Code-ON

EAN13 2 Extra Code-OFF*

EAN13 5 Extra Code-ON

EAN13 5 Extra Code-OFF*

ISBN

ISBN-ON*

ISBN-OFF

ISSN

ISSN-ON*

ISSN-OFF

CODE 39

25

||||| CODE39-ON*

||||| CODE39-OFF

||||| Output Start & Stop Digit-On

||||| Output Start & Stop Digit-OFF*

||||| Full ASCII-ON

||||| Full ASCII-OFF*

CODE 32

||||| CODE32-ON

||||| CODE32-OFF*

CODE 128

||||| CODE128-ON*

||||| CODE128-OFF

CODE 93

||||| CODE93-ON*

||||| CODE93-OFF

CODE 11

||||| CODE11-ON

||||| CODE11-OFF

CODABAR

||||| |||| ||||| ||||||| ||| |||
CODABAR-ON*

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CODABAR-OFF

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Output Start & Stop Digit-On

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Output Start & Stop Digit-OFF*

Industrial 2 of 5

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Industrial 2 of 5-ON*

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Industrial 2 of 5-OFF

Interleaved 2 of 5

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Interleaved 2 of 5-ON*

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Interleaved 2 of 5-OFF

MSI-Plessey

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MSI-Plessey-ON

||| ||| |||| ||||||| ||| ||||
MSI-Plessey-OFF*

Plessey

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Plessey-ON

||| ||| |||| ||||||||| ||| |||
Plessey-OFF*

Febran

||| ||| ||| ||||||| ||| ||||
Febran-ON

||| ||| |||| ||||||||| ||| |||
Febran-OFF*

27

14. Insert and Delete Character

To add prefix

For example : Add prefix XY(See ASCII Barcode Table)

Please scan the following code in order:

"Add Prefix" >X " %%58" Y" %%59"

To add suffix

For example : Add prefix XY (See ASCII Barcode Table from page 30 to page 36)

Please scan the following code in order:

"Add Suffix" >X " %%58" Y" %%59"

Add Prefix

Add Suffix

To delete prefix

For example : Delete number 123(three characters)from barcode" 123456789" , will input "456789" .

Please scan the following code in order:

"Delete Characters From The Front" >" Parameter code "3"

To delete suffix

For example : Delete number 789(three characters)from

barcode" 123456789" , will inputs "123456" .

Please scan the following code in order:

"Delete Character From The Back" >" Parameter code "3"

Delete Prefix/Suffix

Delete Characters From The Front   Delete Characters From The Back

Parameter Code

1

2

3

4

5

6

7

8

ASCII Barcode Table

SOH	%%01	LF	%%0A
STX	%%02	VT	%%0B
ETX	%%03	FF	%%0C
EOT	%%04	CR	%%0D
ENQ	%%05	F1	%%0E
ACK	%%06	F2	%%0F
BEL	%%07	F3	%%10
BS Back space	%%08	F4	%%11

TAB	%%09	F5	%%12
F6	%%13	GS	%%1D
F7	%%14	RS	%%1E
F8	%%15	US	%%1F
F9	%%16	Space	%%20
F10	%%17	!	%%21
F11	%%18	"	%%22
F12	%%19	#	%%23
SUB	%%1A	$	%%24
ESC	%%1B	%	%%25

FS	%%1C	&	%%26
'	%%27	1	%%31
(	%%28	2	%%32
)	%%29	3	%%33
*	%%2A	4	%%34
+	%%2B	5	%%35
,	%%2C	6	%%36
-	%%2D	7	%%37
.	%%2E	8	%%38
/	%%2F	9	%%39

32

0	%%30	:	%%3A
;	%%3B	E	%%45
<	%%3C	F	%%46
=	%%3D	G	%%47
>	%%3E	H	%%48
?	%%3F	I	%%49
@	%%40	J	%%4A
A	%%41	K	%%4B
B	%%42	L	%%4C
C	%%43	M	%%4D

D	%%44	N	%%4E
O	%%4F	Y	%%59
P	%%50	Z	%%5A
Q	%%51	[	%%5B
R	%%52	\	%%5C
S	%%53	]	%%5D
T	%%54	^	%%5E
U	%%55	_	%%5F
V	%%56	`	%%60
W	%%57	a	%%61

X	%%58	b	%%62
c	%%63	m	%%6D
d	%%64	n	%%6E
e	%%65	o	%%6F
f	%%66	p	%%70
g	%%67	q	%%71
h	%%68	r	%%72
i	%%69	s	%%73
j	%%6A	t	%%74
k	%%6B	u	%%75

l	%%6C	v	%%76
w	%%77		
x	%%78		
y	%%79		
z	%%7A		
{	%%7B		
|	%%7C		
}	%%7D		
~	%%7E		
DEL	%%7F		