



# BC/BL/BLR 2604



## Important notice

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*Specifications or version may be subject to change without notice. The actual specification and version are based on the product delivered.*

## Introduction

Scanning a series of programming bar code labels can configure the scanner.

The scanner must be properly powered before programming.

During the programming mode, the scanner will acknowledge a good and valid reading with a short beep. It will give long beeps for either an invalid or bad reading.

# 2604 Programming guide

This document is to be used with Baracoda Barcode Scanners :

**BC2604**

**BL2604**

**BLR 2604**

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## **INTRODUCTION**

Scanning a series of programming bar code labels can configure the scanner.

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During the programming mode, the scanner will acknowledge a good and valid reading with a short beep. It will give long beeps for either an invalid or bad reading.

## **PROGRAMMING OPTIONS**

Programmable options are divided into 2 groups. The first group includes the options that show the general behaviour of the scanner. The second group sets the decoding parameters for each barcode symbology.

## **SCANNING INSTRUCTIONS**

The Programming Guide barcodes should be scanned with a full charged set of batteries.

The BLR2604 scanning distance is 60 cm.

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## Default parameters

This table gives the default settings of all the programmable parameters. The default settings will be restored whenever the "Reset" programming label is scanned and the laser scanner is in programming mode.

### 1.1 Default values of operating parameters

Function	Default Values
Scanning Mode Selection	Trigger mode
Header and Trailer	None
Good Read Beeper Tone Selection	2.3KHz/50 msec (medium)
Code Identifier Transmitting	Disable

### 1.2 Predefined barcode identifiers

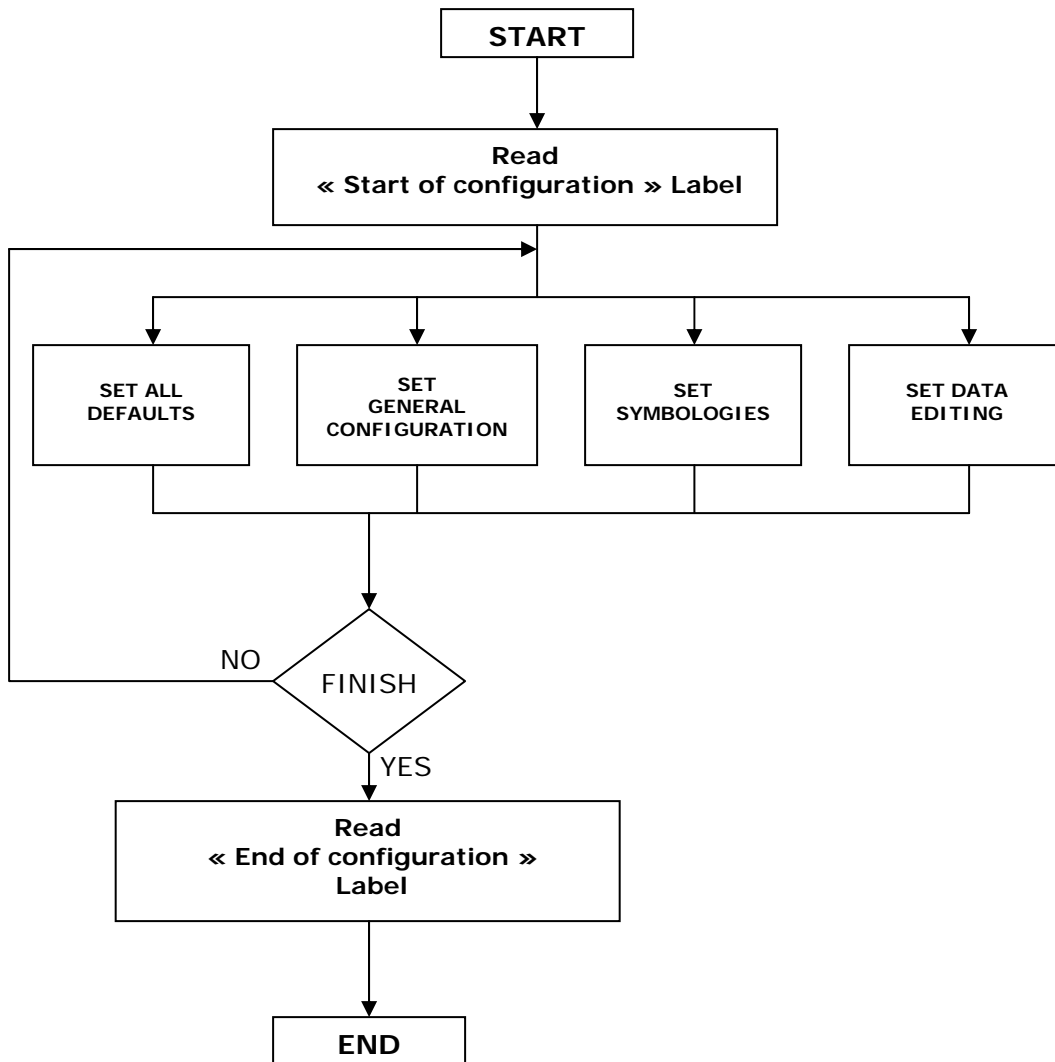
Function	Default Values
Code 39 Barcode Identifier Code	M
ITF 2 of 5 Barcode Identifier Code	I
Chinese Post Code Identifier Code	H
UPC-E Barcode Identifier Code	E
UPC-A Barcode Identifier Code	A
EAN-13 Barcode Identifier Code	F
EAN-8 Barcode Identifier Code	FF
Coda bar Barcode Identifier Code	N
Code 128 Barcode Identifier Code	K
Code 93 Barcode Identifier Code	L
MSI Barcode Identifier Code	P
Industry 2 of 5 Identifier Code	R
IATA Identifier Code	T

### 1.3 Default values of decoding parameters

Function	Code	Default Value
Reading codes Selection	Code 39	Enable
	ITF 2 of 5	Enable
	Chinese Post Code	Disable
	UPC/EAN/JAN	Enable
	Codabar	Enable
	MSI/PLESSY	Disable
	Code 128	Enable
	Code 93	Enable
	ITAT	Disable
	EAN-128	Disable
	Industry 2 of 5	Disable
	Italian Pharmacy	Disable
	ISSN/ ISBN	Disable
Code 39	Codes	Standard
	Start/stop characters	Not transmitting
	Check digit	Disabled
Interleaved 2 of 5	Length	6-32 digits
	Check digit	Disable

Chinese Post Code	Length	8~32digits
	Check digit	Transmit
UPC/EAN/JAN	Format	All
	Addendum	Disable
	UPC-E=UPC-A	Disabled
	UPC-A leading digit	Transmit
	UPC-A check digit	Transmit
	UPC-E leading digit	Transmit
Coda bar	UPC-E check digit	Transmit
	Type	Standard
	Start/stop characters	A, B, C, D
Code 128	Length	6~32 digits
	FNC 2 append	Disable
MSI	Length	Variable
	Check digit	Double check but not transmit
Italian Pharmacy	Transmit "A" Character	Not transmitting
Industry 2 of 5	Length	6~32 digits

## 2 Program procedure using barcode menus

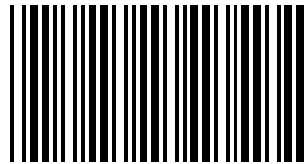


### 3 Set all defaults



Start of Configuration

---



— — — —  
Default Settings

The reading of the "Default settings" label turns all the parameters back to default settings.

When you intend to turn your scanner back to default parameter, please scans the "Start of configuration" label first, then scan "Default settings" label and finally scan the "End of configuration" label.



End of Configuration

## 4 General configuration

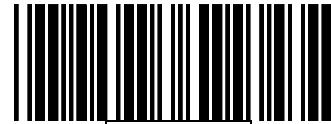


Start of Configuration

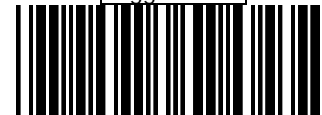
### 4.1 Scanning mode selection

The scanner becomes inactive as soon as the data is transmitted. It must be triggered to become active again.

In auto scan mode, the scanner is still active after the data is transmitted, but the successive transmission of the same bar code is not allowed when the trigger switch is pressed again.



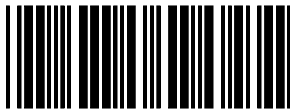
Trigger mode



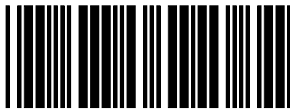
Auto scan mode

### 4.2 Good read beeper tone selection

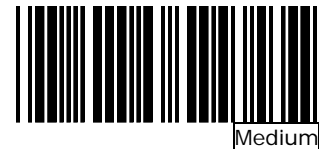
You can use this option to set frequency and / or duration of the buzzer after successful reading.



Low



High

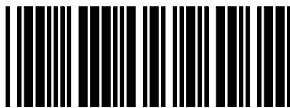


Medium

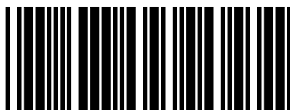


Disable

### 4.3 Sound duration



long(120 ms)



Short(20 ms)



Medium(50 ms)



Very short(5 ms)



End of Configuration

## 5 Symbologies

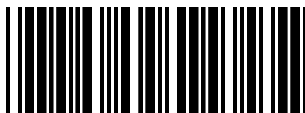


Start of Configuration

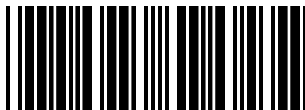
### Reading code selection



Code 39 Enable



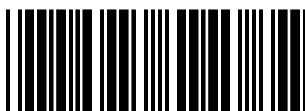
Code 39 Disable



Codabar Enable



Codabar Disable



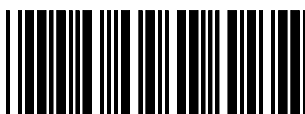
UPC/ EAN/ JAN Enable



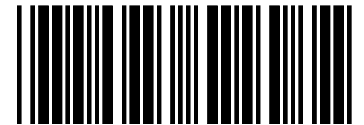
UPC/ EAN/ JAN Disable



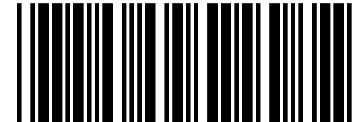
ITF 2 of 5 Enable



ITF 2 of 5 Disable



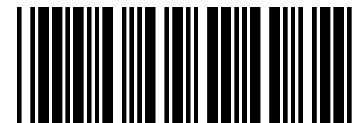
Chinese Post Code Enable



Chinese Post Code Disable



Code 128 Enable



Code 128 Disable



Code 93 Enable



Code 93 Disable



EAN-128 Enable



EAN-128 Disable

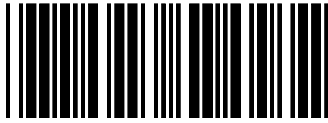


MSI Enable



MSI Disable

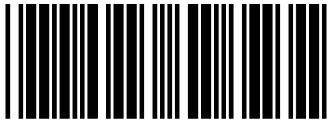




IATA Enable



IATA Disable



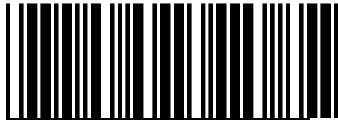
INDUSTRY 25 Enable



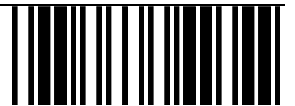
INDUSTRY 25 Disable



Italian Pharmacy Enable



Italian Pharmacy Disable



End of Configuration



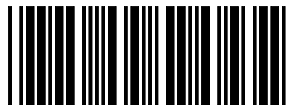
Start of Configuration

**Code 9 parameters setting**

CHARACTER SET

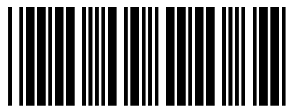


Standard Code 39



Full ASCII Code 39

START/STOP CHARACTER TRANSMISSION

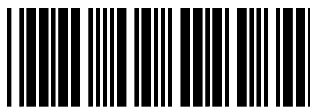


Yes

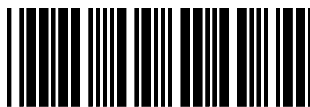


No

CHECK DIGIT



Calculate and Transmit



Calculate but not Transmit



No

CONCATENATION



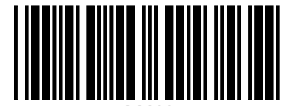
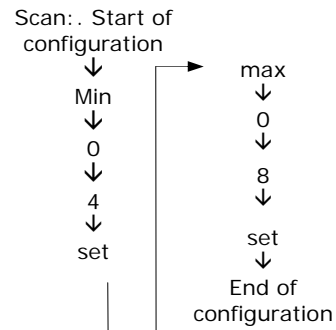
Enable



Disable

**Interleaved 2 of 5 parameters setting**

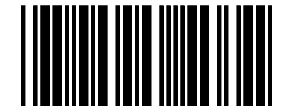
Examples: Felting length 4 to 8 digits  
LENTGTH



MAX



Min

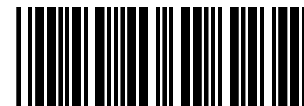


Set

CHECK DIGIT



No



Calculate and Transmit



Calculate but not Transmit

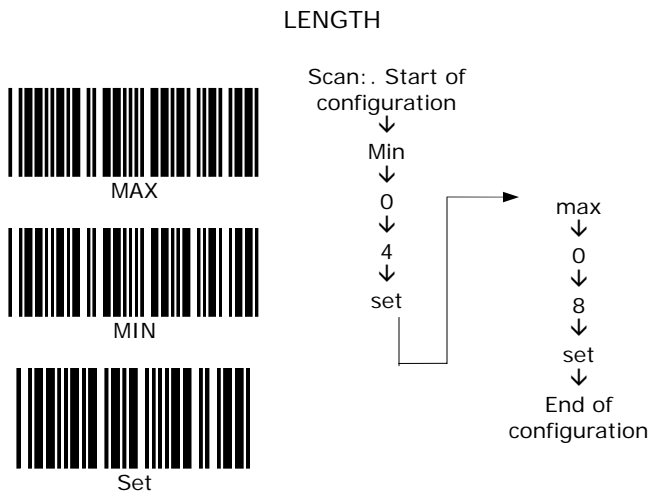


End of Configuration



Start of Configuration

**Chinese post code parameters setting**

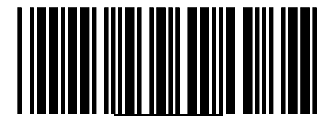


**Codabar/Monarch parameters setting**

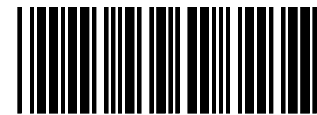
START/ STOP CHARACTER TRANSMISSION



No



A, B, C, D



DC1~DC4



a/ t, b/ n, c/ \*, d/ e

CONCATENATION



Enable



Disable



NO



Calculate and Transmit



Calculate but not Transmit



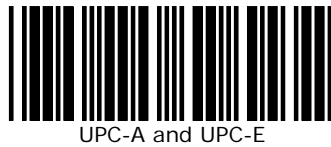
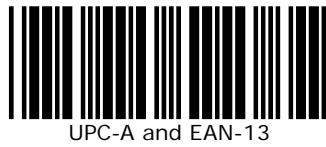
End of Configuration



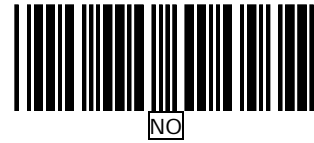
Start of Configuration

**UPC/EAN/JAN parameters setting**

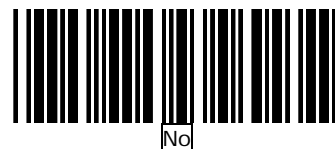
FORMAT :



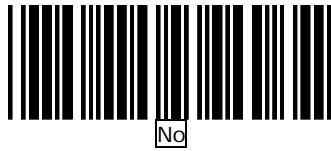
ADDENDUM :



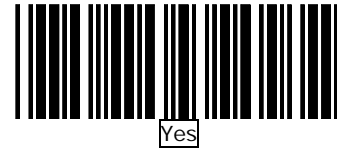
FORCE UPC-E TO UPC-A FORMAT



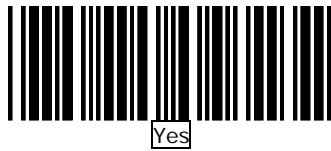
FORCE UPC-A TO EAN-13 FORMAT



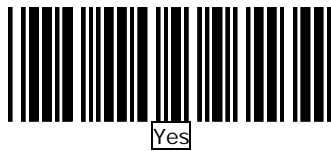
TRANSMIT UPC-E LEADING CHARACTER



TRANSMIT UPC-A LEADING CHARACTER



TRANSMIT UPC-A CHECK DIGIT





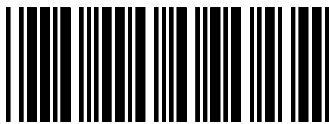
Start of Configuration

UPC/EAN/JAN parameters settings (Cont'd)

TRANSMIT UPC-E CHECK DIGIT

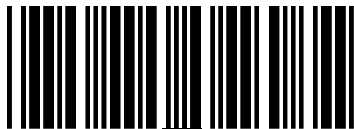


Yes

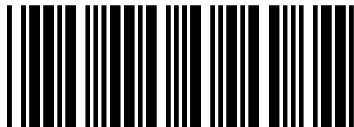


No

TRANSMIT EAN-13 CHECK DIGIT

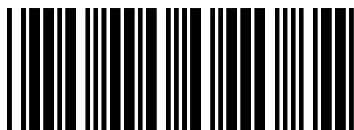


Yes

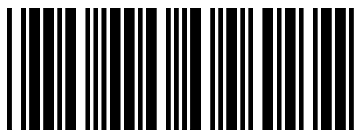


No

TRANSMIT EAN-8 CHECK DIGIT



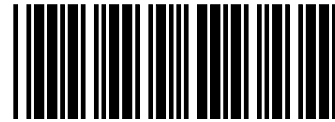
Yes



No

Code 128 parameters setting

FNC 2 CONCATENATION

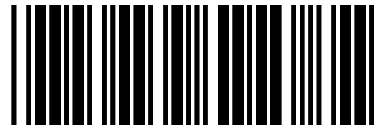


Enable

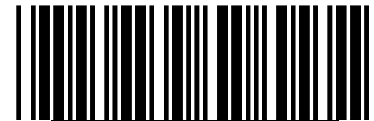


Disable

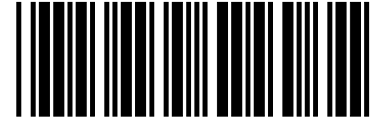
CHECK DIGIT



No



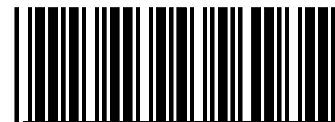
Calculate but not Transmit



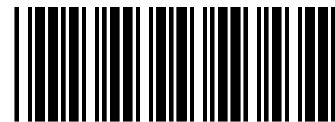
Calculate and Transmit

UCC/EAN128 parameters setting

The character FNC1 can be transmitted or not using these codes.



FNC1 Character Transmitted



FNC1 not Transmitted



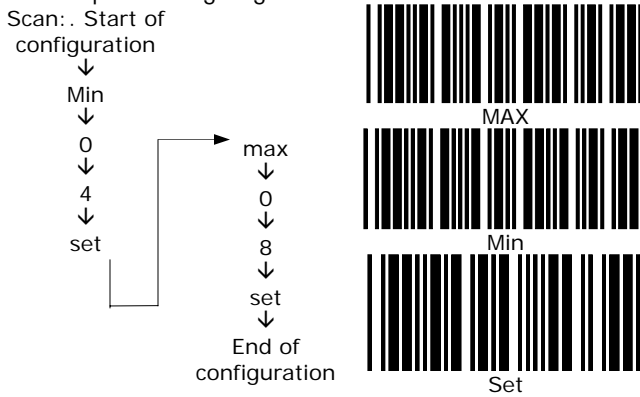
End of Configuration



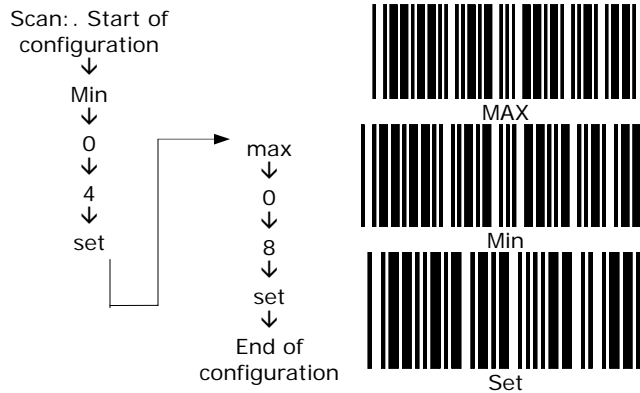
Start of Configuration

**Industry 25 parameters setting**

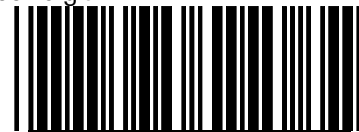
Examples: Felting length 4 to 8 characters



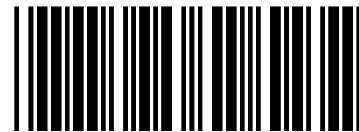
**Msi/Plessey setting**



**Double Check digit**



Calculate but not Transmitted



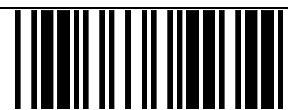
No



Calculate but only first one Transmitted



Calculated and both Transmitted



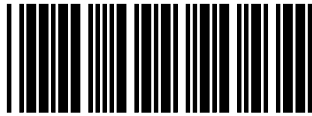
End of Configuration



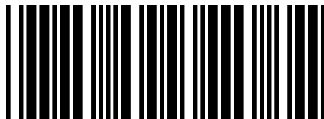
Start of Configuration

**Italian pharmacy parameters setting**

TRANSMIT "A" CHARACTER



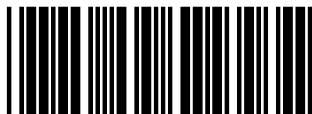
Yes



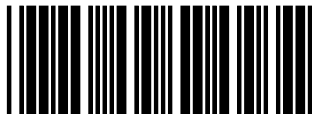
No

**Barcode length setting**

CODE 39 LENGTH SETTING

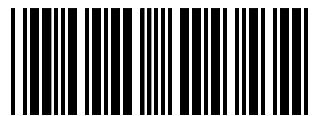


MAX

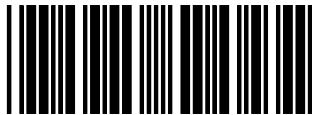


MIN

CODE 93 LENGTH SETTING

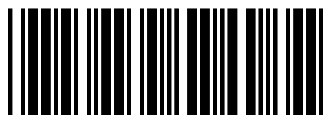


MAX



MIN

CODE 128 LENGTH SETTING



MAX



MIN

CODABAR LENGTH SETTING



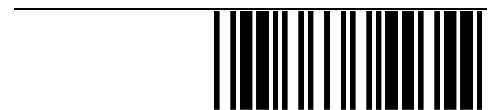
MAX



MIN



SET



End of Configuration



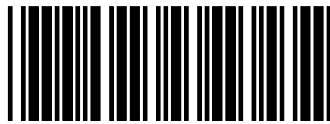


Start of Configuration

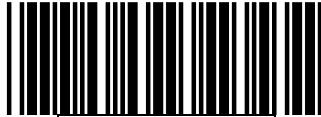
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### ISBN/ ISSN conversion

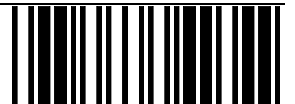
The function converts the UPC/EAN codes appearing on books and magazine not ISBN/ISSN format.



ACTIVE ISBN/ISSN



INACTIVE ISBN/ISSN



End of Configuration

## 6 Data editing

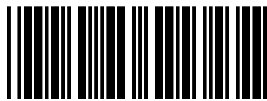


Start of Configuration

### 6.1 Prefix and suffix

This option allows you to append a prefix and/or a suffix to every message transmitted. There is no restriction in selecting prefix or suffix characters as far as the sum of the lengths of prefix and suffix is not greater than 10 digits.

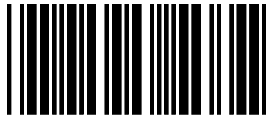
**You must enable prefix/suffix with the BaracodaManager previously to configure prefix and/or suffix (see 2604 protocol or BaracodaManager document)**



Prefix



Suffix

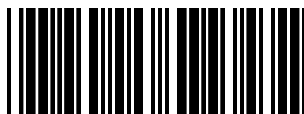


Set

1. Select either prefix or suffix you are going to program by scanning the corresponding label
2. Scan the character(s) you want from the enclosed ASCII table to set as prefix or suffix (be sure to enable full ASCII code 39 option before you start).
3. Read the "Set" label to set your choice into memory.

### 6.2 Barcode identifier code selection

The scanners can transmit max.2-digit barcode identifier code for different types of barcodes. Use the labels to choose transmit or not transmit predefined barcode identifier code (ID's are listed on section 1):



Enable

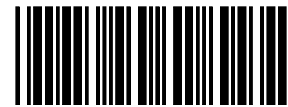


Disable

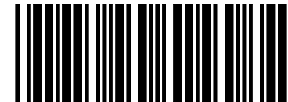
### 6.3 Barcode identifier code setting

Each of the series type scanners can set max.2 digits as barcode identifier code according to different barcode. The procedure is as follows:

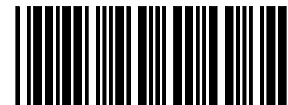
1. Scan "Start of configuration" label
2. Scan "Barcode identifier setting code" label.
3. Scan the new code mark from ASCII table (max. two digits). For example, if one "AB" want for code mark then scan "A" and "B".
4. Scan "Set" label.
5. Scan "End of configuration" label.



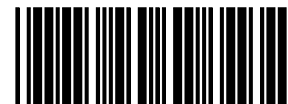
UPC-E



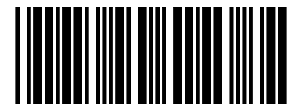
UPC-A



EAN-13



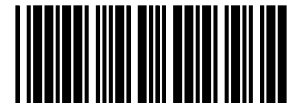
EAN-8



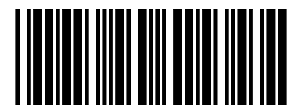
Chinese post code



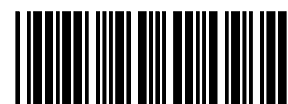
ITF 2 OF 5



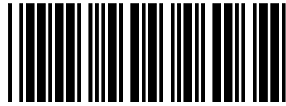
Coda bar



Code 39



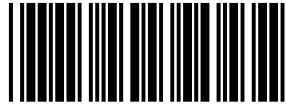
Code 128



Code 93



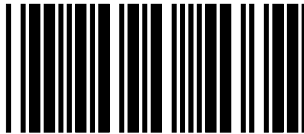
MSI



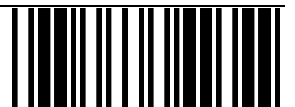
INDUSTRY 25



IATA



Set



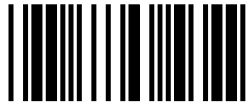
End of Configuration

## 7 Code 39 full ASCII barcode

### table



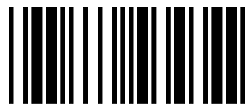
Start of Configuration



NUL



SOH  
(Ins)



STX (Del)



ETX (Home)



EOT (End)



LF (Enter)(num)



VT (Right)



FF (PgUp)



ENQ (Up)



ACK (Down)



BEL (Left)



BS (Backspace)



HT (TAB)



DLE 5 (num)



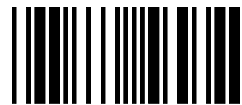
DC1 (F1)



DC2 (F2)



CR (Enter)



SO (PgDn)



SI shift(L)



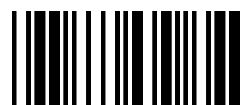
SYN (F6)



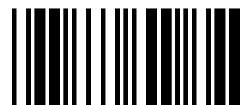
ETB (F7)



CAN (F8)



EM (F9)



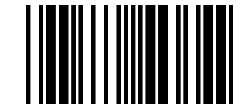
SUB (F10)



ESC (F11)



DC3 (F3)



DC4 (F4)



NAK (F5)



GS (ESC)



RS Ctl (L)



US Alt (L)



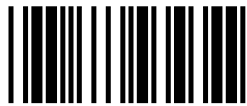
SP



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FS (F12)



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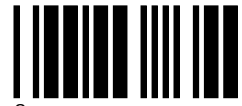
0



1



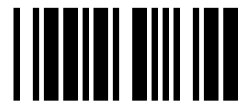
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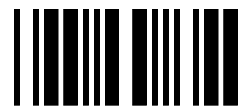
3



4



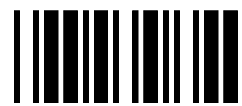
5



6



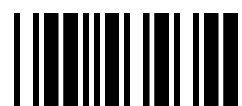
7



8



9



B



C



D



;



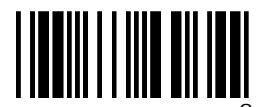
<



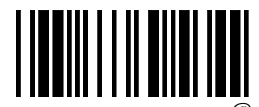
=



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A



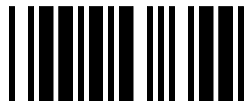
I



J



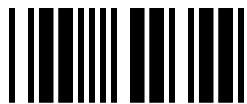
K



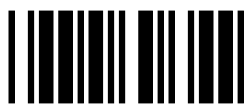
E



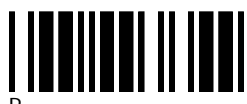
F



G



H



P



Q



R



S



T



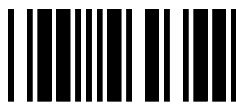
U



L



M



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O



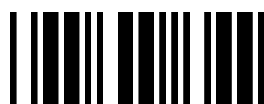
W



X



Y



Z



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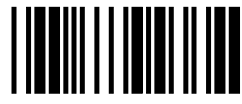
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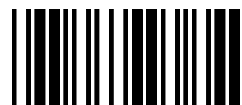
`



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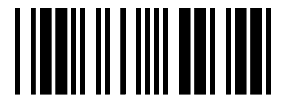
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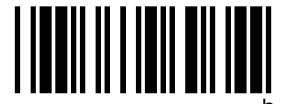
e



f



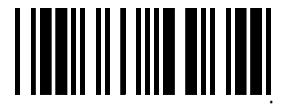
g



h



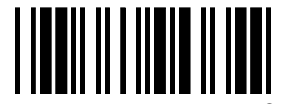
i



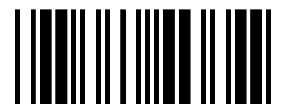
j



k



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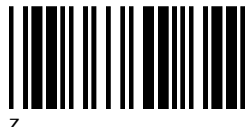
x



r



y



z



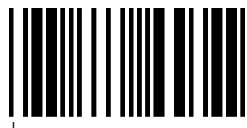
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DEL



End of Configuration

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