Programming Guide

Omnidirectional Laser Scanner

Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	2015/06/01	Initial release
1.1	2015/7/13	Corrected sleep mode defaults
1.2	2015/7/30	Added stand section

Important Notice

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

General Handling Precautions

- Do not dispose of the scanner in fire.
- Do not put the scanner directly in the sun or by any heat source.
- Do not use or store the scanner in a very humid place.
- Do not drop the scanner or allow it to collide violently with other objects.
- Do not take the scanner apart without authorization.

Printing Guidance

- This programming guide is in A5 size. Please double check your printer setting before printing it out.
- When printing barcodes for programming, the use of a high-resolution laser printer is strongly suggested for the best scan result.

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Radio Notice

Some equipment generates uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions in this manual, it may cause interference to radio communications. The equipment has been tested and found to comply with the limits for a Class A computing device pursuant to EN55022 and 47 CFR, Part 2 and Part 15 of the FCC rules. These specifications are designed to provide reasonable protection against interference when operated in a commercial environment.

Radio and Television Interference

Operation of this equipment in a residential area can cause interference to radio or television reception. This can be determined by turning the equipment off and on.

The user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna.

Relocate the device with respect to the receiver.

Move the device away from the receiver.

Plug the device into a different outlet so that the device and the receiver are on different branch circuits.

If necessary, the user may consult the manufacturer, authorized dealer, or experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: “How to Identify and Resolve Radio-TV Interference Problems.” This booklet is available from the U.S. Government Printing Office, Washington, DC 20402 U.S.A., Stock No. 004000003454.

For CE-countries

This scanner is in conformity with CE standards. Please note that an approved, CE-marked power supply unit should be used in order to maintain CE conformance.

Laser Safety

The laser scanner complies with safety standard IEC 60825-1 for a Class I laser produce. It also complies with CDRH as applicable to a Class IIa laser product. Avoid long term staring into direct laser light.

Radiant Energy

The laser scanner uses one low-power visible laser diodes operating at 650nm in an opto-mechanical scanner resulting in less than 3.9μW radiated power as observed through a 7mm aperture and averaged over 10 seconds.

Do not attempt to remove the protective housing of the scanner, as un-scanned laser light with a peak output up to 0.8mW would be accessible inside.

Laser Light Viewing

The scan window is the only aperture through which laser light may be observed from this product. A failure of the scanner motor, while the laser diode continues to emit a laser beam, may cause emission levels to exceed those for safe operation. The scanner has safeguards to prevent this occurrence. If, however, a stationary laser beam is emitted, the failing scanner should be disconnected from its power source immediately.

Adjustments

Do not attempt any adjustments or alteration of this product. Do not remove the protective housing of the scanner. There are no user-serviceable parts inside.

Caution

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Optical

The use of optical instruments with this product will increase the eye hazard. Optical instruments include binoculars, magnifying glasses, and microscopes but do not include normal eye glasses worn by the user.

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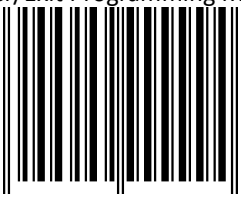
Enter/Exit Programming Mode



(This barcode can also be found at back cover page.)

Framed values are default values

INTRODUCTION

This is an advanced programming guide for varies omnidirectional laser scanners. This guide contains a series of programming barcode labels, and by scanning these codes, it can make configurations to the scanners. This allows decoding options and interface protocols to be tailored to a specific application. The configuration is stored in non-volatile memory and will not be lost by removing power from the scanner. Other than specified in this guide, for any special functions or specifications, please contact your dealer for details.

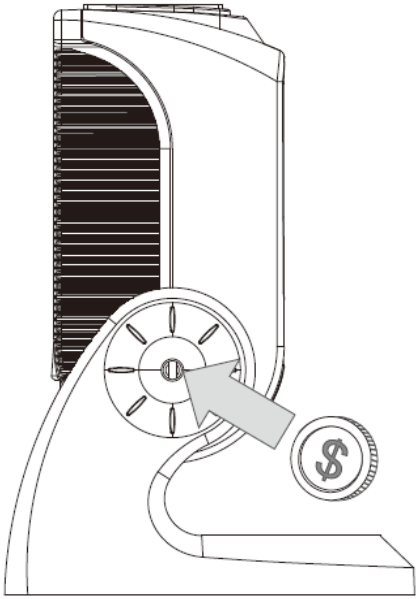
The scanner must be properly powered before programming. For RS-232C type scanners, an external power adapter must be used to supply DC power to the scanner. If a keyboard emulation type scanner is used with an IBM PC/XT/AT, PS/2 or any fully compatible computers, power will be drawn from the keyboard port; therefore no external power adapter is required. If keyboard emulation type scanner is used with any other non IBM PC compatible computers, an external power adapter may be required.

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

Adjusting Stand

To change the stand angle, please follow the steps below:

1. Adjust the tilt of the scanner to the desired position.
2. Use a coin to tighten the screws on both sides of the stand.



CHANGE THE SCANNER SETTING

In order to change the scanner setting, please follow the steps below:

1. Scan the Enter/Exit Programming Mode barcode. There will be 2 beeps (low-high) indicating ready to make settings
2. Scan barcodes for the desired feature (1 beep).
3. Scan the Enter/Exit Programming Mode barcode again to save the configuration. There will be 2 beeps (long---short) indicating a successful setting.

After reading a valid barcode in programming mode, the scanner will give a high beep.

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.

Reset (Return to factory default)

Default Values of Operating Parameters

Function	Default
Sleep mode	
Motor sleep mode	Off
Laser sleep mode	Off
Scanner timing	
Same code delay	300msec
Beeper Tone	
Frequency	medium
Duration	100msec
Default Values of Keyboard Emulation Parameters	
Keyboard type selection	IBM PC/AT USA
USB type selection	US Keyboard
Message terminator	Enter/ carriage return
Default Values of Serial Communication Parameters	
Handshaking protocol	None
ACK/NAK response time setting	300 msec
Baud rate	9600
Data bit	8
Stop bit	1
Parity	None
Message terminator selection	CR/LF

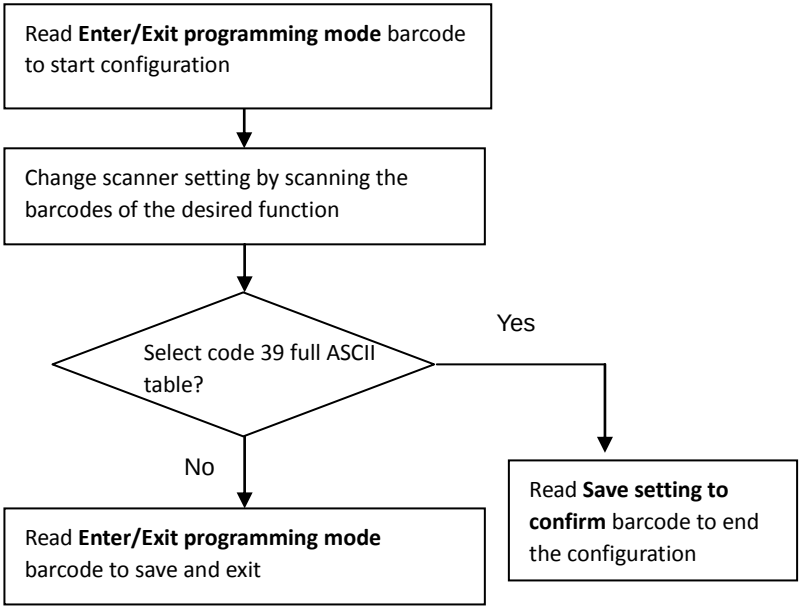
Default Values of Decoding Parameters

Function	Code	Default Value
Reading codes selection	Code 39	Enable
	ITF 2 of 5	Disable
	Chinese Post Code	Disable
	UPC/EAN/JAN	Enable
	Codabar	Disable
	MSI/PLESSY	Disable
	Code 128	Enable
	Code 93	Disable
	EAN-128	Disable
	Italian Pharmacy	Disable
	ISSN/ ISBN	Disable
	RSS (GS1)	Disable

Code 39	Codes	Standard
	Start/stop characters	Not transmitting
	Check digit	Disabled
	Concatenation	Off
	Length	3~32
Interleaved 2 of 5	Length	6-32
	Check digit	Disable
Chinese Post Code	Length	10~32
	Check digit	Disable
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
	UPC-E check digit	Transmit
Codabar	Type	Standard
	Start/stop characters	A, B, C, D
	Length	6~32 digits
Code 128	FNC 2 append	Disable
	Check digit	Disable
Code 93	Length	3~32
	Check digit	Not transmit
MSI	Length	6~32
	Check digit	Transmit
Italian Pharmacy	Transmit "A" Character	Not transmitting
RSS-14	RSS-14 standard	Disable
	RSS limited	Disable
	RSS expanded	Disable
	Transmit RSS-14 check digit	Enable

NOTE:
Contact your distributor to make sure if your model and firmware version support GS1 DataBar.

PROGRAM PROCEDURE



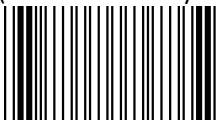
System Setting

The series scanner is a multi-interface communication scanner. If you had ordered only one type of interface, the device is configured in the interface requested, i.e. RS-232C, keyboard wedge, wand emulation or USB. If not requested, the default interface is set in keyboard wedge interface (PC/AT). Use this section to change interfaces.

Reset (Return to Factory Default)

Reading of “Reset” barcode label turns all parameters back to default values, and the scanner remains in the last interface set when it is reset.

Reset (Return to Factory Default)



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Display Firmware Version

Reading of the “Display Firmware Version” will show the current firmware version on host.

Display Firmware Version

Abort (Exit Programming Mode)

Reading of the “Abort” barcode label discards all the parameters read prior to scan the “Enter/Exit of Programming Mode”.

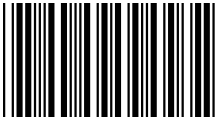
Abort (Exit Programming Mode)

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Return to RS-232 Default

The RS-232C interface scanner is often used when connecting to the serial port of a PC or terminal. Read the barcode to set the scanner into RS-232 interface.

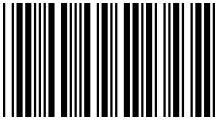
Return to RS-232 Default



Return to USB Default

Reading of "Return to USB default" sets the device into USB interface support.

Return to USB Default

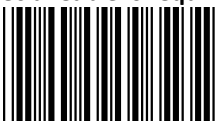


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Return to USB Default

Reading of "Return to USB-Virtual COM default" sets the device into USB-Virtual COM interface support.

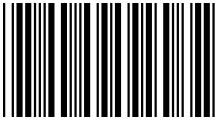
Return to USB-Virtual COM default
(Special Cable is required)



Save as Customer Default

Reading of this label to save the desired parameters set into customer's own default setting.

Save as Customer Default

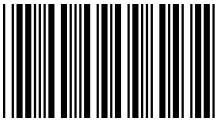


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

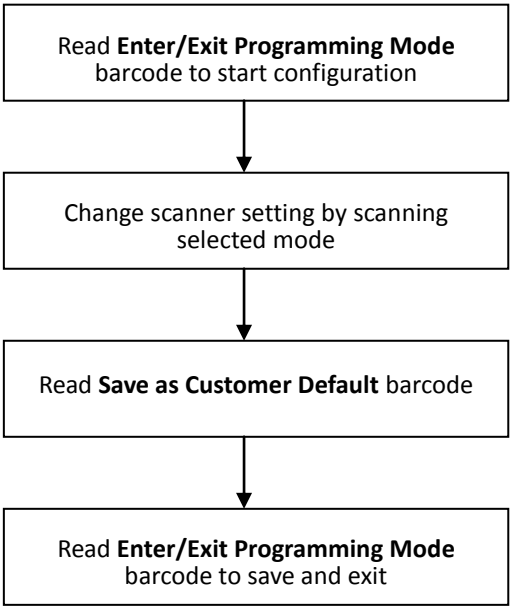
Return as Customer Default

Reading of the label sets the device back to customer saved parameter settings.

Return as Customer Default



How to Save as Customer Default



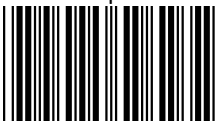
Sleep Timeouts Selection

In this section, user can set both laser and/or motor to enter into sleep mode. The timeout programming labels will allow users to set the different time frame before entering into laser and/or motor sleep mode. The feature reduces power consumption and prolongs scanner life time.

NOTE:

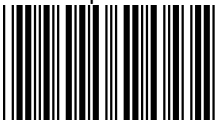
1. **Laser always enters sleep mode before motor.**
2. **If the motor timeout is set shorter than the laser timeout, then laser would enter sleep mode as motor enters sleep mode.**

Motor sleep mode off

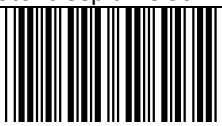


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Motor sleep time 10 min.

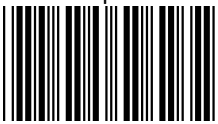


Motor sleep time 30 min.



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

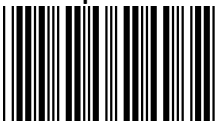
Laser sleep mode off



Laser sleep time 10 min.

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

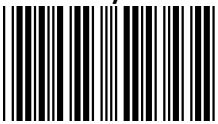
Laser sleep time 30 min.



Same Code Delay Time

This parameter sets the minimum time allowed between decodes of the same label.

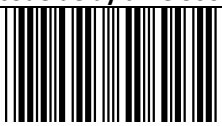
Same code delay time 50 msec.



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

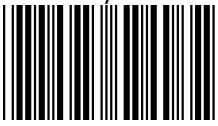
Same code delay time 200 msec.

Same code delay time 300 msec.



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Same code delay time 500 msec.



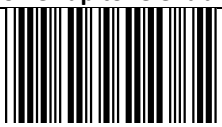
Same code delay time infinite

Beeper Sound Selection

This section includes all setting labels for beeper sound settings, including tone frequency, volume, duration time, power on beep enable/disable, and enable/disable sound when the scanner enters sleep mode.

.

Power-up tone enable



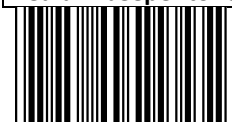
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Power-up tone disable

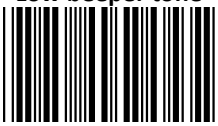
High beeper tone

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Medium beeper tone

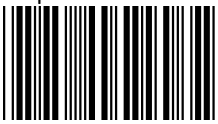


Low beeper tone

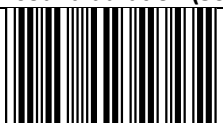


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Speaker disable



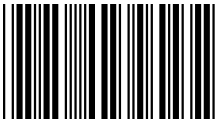
Beeper sound duration (50msec)



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

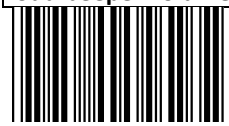
Beeper sound duration (100msec)

Beeper sound duration 200msec

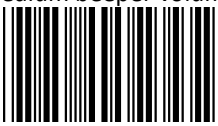


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Loud beeper volume

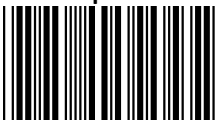


Medium beeper volume



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Low beeper volume



Barcode Identifier Code Setting

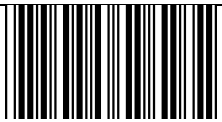
The scanner can transmit maximum 2 digits barcode identifier code for different types of barcodes. Use Enable or Disable identifier setting barcode to determine the transmission of barcode ID.

The procedure is as follows:

1.) Scan **Enter/Exit Programming Mode** label
2.) Scan **Barcode Identifier Setting Code** label
3.) Scan the new code mark from ASCII table (maximum 2 digits). For example, if **AB** is the code mark, then scan **A** and **B**.
4.) Scan **Save Setting to Confirm** label
5.) Scan **Enter/Exit Programming Mode** label

Barcode Identifier Code Selection

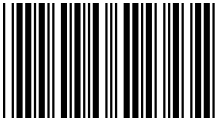
Disable identifier code



Scan “Enable identifier code” label to transmit the label ID as shown in the table below.

Code 39	M
ITF 2 of 5	I
Chinese post code	H
UPC-A	A
UPC-E	E
EAN-13	F
EAN-8	FF
Codabar	N
Code 128	K
Code 93	L
MSI/Plessy	P
GS1 DataBar Omnidirectional (RSS-14 Standard)	RS
GS1 DataBar Limited (RSS Limited)	RL
GS1 DataBar Expanded (RSS Expanded)	RX

Enable identifier code



Message Terminator

This section contains different message terminator for data transmission.

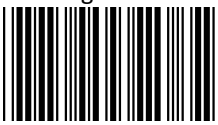
Message terminator for RS-232C

RS-232 message terminator—none

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

RS-232 message terminator—CR/LF

RS-232 message terminator—CR



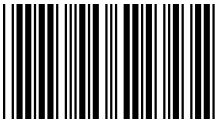
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

TAB

RS-232 message terminator—H tab

USB HID &Keyboard Wedge Interface Configuration

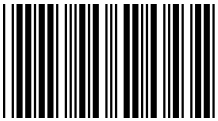
Keyboard terminator---none



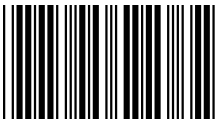
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Keyboard terminator---Enter

TAB



Keyboard terminator---H-TAB



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Capital Lock

Capital lock on

Capital lock off

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Function Key Emulation

Function key emulation enable

Function key emulation disable

PREFIX AND SUFFIX

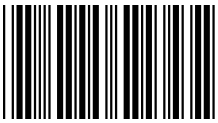
The Prefix and Suffix section allows you to append a prefix and/or a suffix to every message transmitted via the serial ports, USB or the keyboard port. There is no restriction in selecting prefix or suffix characters as far as the sum of the lengths of prefix and suffix is not greater than 10 digits.

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 ASCII table to set as header or trailer. (Be sure to enable full ASCII code 39 option before you start.)

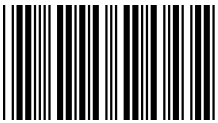
3. Read the save setting to confirm label to confirm your choice into memory.

Prefix



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

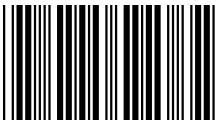
Suffix



This setting allows you to truncate a number of header or trailer for symbology. As a result, the specific character you select is deleted from the symbology you want.

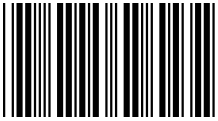
1. Scan the Enter/Exit programming mode label.
2. Select the Truncate header or truncate trailer label.
3. Scan two barcode value from the full ASCII code table(0~9). For example, scan 0 and 2 if you want to clear the number 2 from header.
4. Scan save setting to confirm label
5. Scan Enter/Exit programming mode label to end of configuration.

Truncate header character



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Truncate trailer character



Save setting to confirm

Add code length as header enable (all barcode)

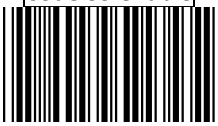
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Add code length as header disable (all barcode)

Symbology Configuration

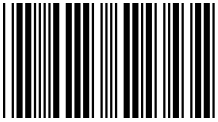
In this section, device can be programmed to recognize one or more barcode symbologies automatically. If the scanner is configured to support multiple barcode symbologies, the scanner will discriminate different symbologies automatically. However, to improve scanning performance, you should enable only the symbologies that will be in active use.

Code 39 enable

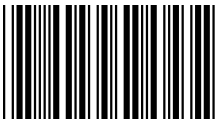


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Code 39 disable

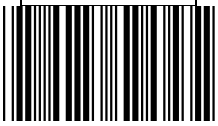


Codabar enable



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Codabar disable

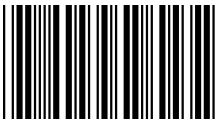


UPC/EAN/JAN enable

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

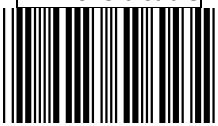
UPC/EAN/JAN disable
(only can't transmitted but can decode)

ITF 2 of 5 enable



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

ITF 2 of 5 disable

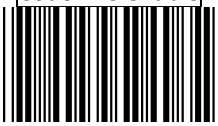


Chinese postcode enable

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

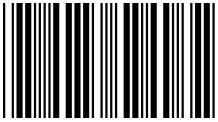
Chinese postcode disable

Code 128 enable



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

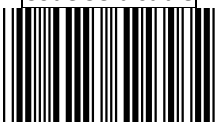
Code 128 disable



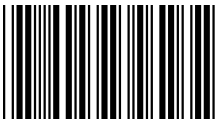
Code 93 enable

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Code 93 disable

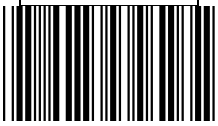


EAN-128 enable



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

EAN-128 disable

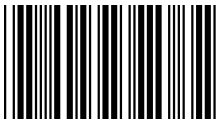


EAN convert to ISSN/ISBN

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

EAN convert to ISSN/ISBN disable

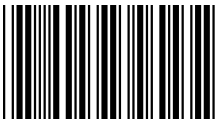
Code 32 enable



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

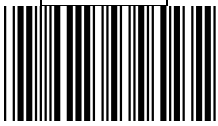
Code 32 disable

MSI enable



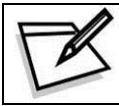
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

MSI disable



UPC/EAN Parameters Setting

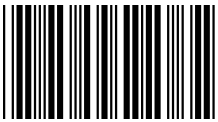
UPC/EAN/JAN all enable



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

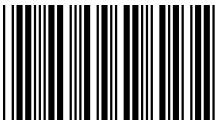
EAN-8 or EAN-13 enable

UPC-A and EAN-13 Enable

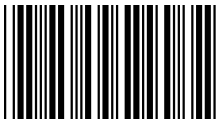


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

UPC-A and UPC-E Enable

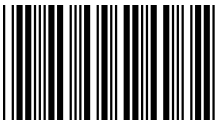


UPC-A enable

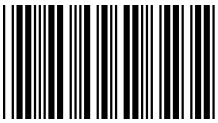


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

UPC-E enable

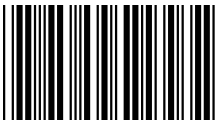


EAN-13 enable



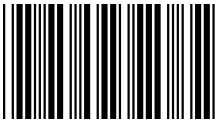
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

EAN-8 enable



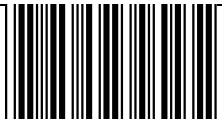
Force UPC-E to UPC-A format

Force UPC-E to UPC-A format enable



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Force UPC-E to UPC-A format disable

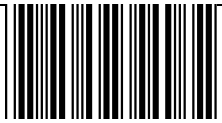


Force UPC-A to EAN-13 format

Force UPC-A to EAN-13 format enable

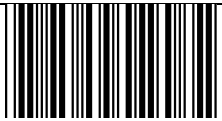
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Force UPC-A to EAN-13 format disable



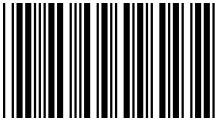
Force EAN-8 to EAN-13 format

Force EAN-8 to EAN-13 format disable



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

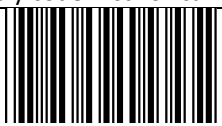
Force EAN-8 to EAN-13 format enable



EAN-13 country code first “0” can transmitted

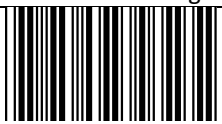
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

EAN-13 country code first “0” can’t transmitted



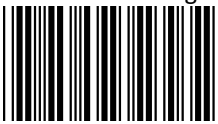
Transmit UPC-A check digit

Transmit UPC-A check digit enable



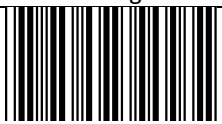
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Transmit UPC-A check digit disable



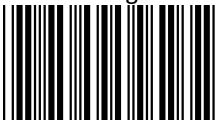
Transmit UPC-E leading character

Transmit UPC-E leading character enable



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Transmit UPC-E leading character disable



Transmit UPC-E check digit

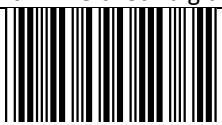
Transmit UPC-E check digit enable

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Transmit UPC-E check digit disable

Transmit EAN-8 check digit

Transmit EAN-8 check digit enable

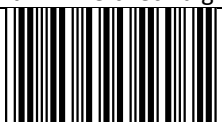


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Transmit EAN-8 check digit disable

Transmit EAN-13 check digit

Transmit EAN-13 check digit enable

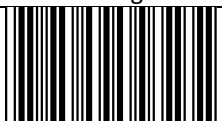


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Transmit EAN-13 check digit disable

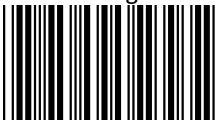
Transmit UPC-A leading character

Transmit UPC-A leading character enable



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Transmit UPC-a leading character disable



Addendum

UPC/EAN addendum off

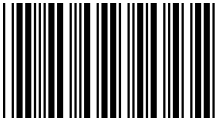
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Addendum 5 only

Addendum 2 only

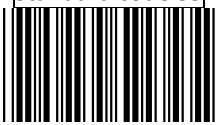
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Addendum 2 or 5



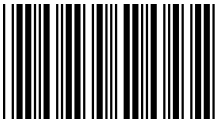
Code 39 Parameters Setting

Standard code 39



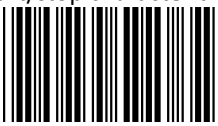
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

FULL ASCII code 39



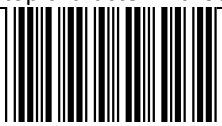
Start/Stop Character Transmission

Code 39 start/stop character transmission



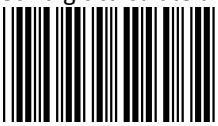
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Code 39 start/stop character without transmission



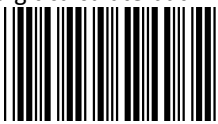
Check Digit

Code 39 check digit calculate and transmit

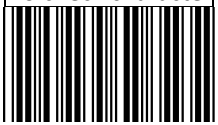


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Code 39 check digit calculate but without transmit



No check character



Code 39 reading length setting

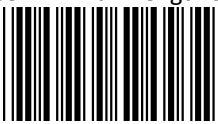
The default code 39 length is 3 ~32 character. It can be set at minimum 1 digit and maximum 62 digits.

1. Programming Minimum or Maximum label
2. Scan two number labels from Code39 FULL ASCII table. Example: For 4 character length, scan 0 and 4
3. Scan Save setting to confirm label to confirm your choice into memory

Code 39 maximum length setting

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

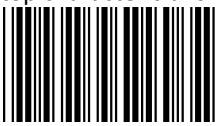
Code 39 minimum length setting



Save setting to confirm

CODABAR Parameters Setting

Codabar start/stop character transmission ----none



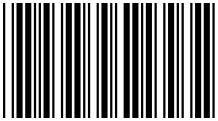
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Codabar start/stop character transmission ---- A,B,C,D

Codabar start/stop character transmission ---- DC1~DC4

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Codabar start/stop character transmission ---- a/t,b/n,c/*,d/e



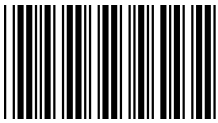
Codabar maximum length setting

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Codabar minimum length setting

Save setting to confirm

Check digits calculate but not transmit

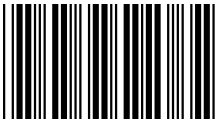


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Check digit calculate and transmit

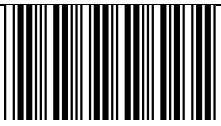
Code 128 Parameters Setting

No check character

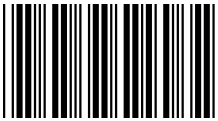


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Calculate but not transmit

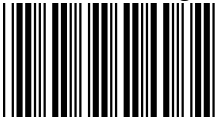


Calculate and transmit

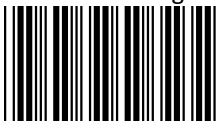


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Code 128 maximum length setting



Code 128 minimum length setting

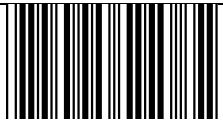


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Save setting to confirm

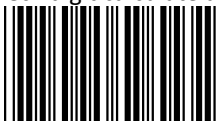
ITF 2 of 5 Parameters Setting

ITF 2 of 5 no check character

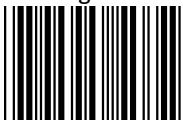


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

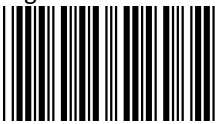
ITF 2 of 5 check digit calculate and transmit



Save setting to confirm



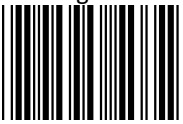
ITF 2 of 5 check digit calculate but without transmit



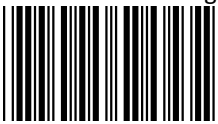
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

ITF 2 of 5 code maximum length setting

Save setting to confirm

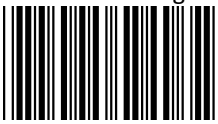


ITF 2 of 5 code minimum length setting

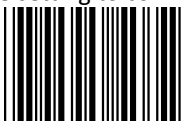


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

ITF 2 of 5 one fixed length setting



Save setting to confirm



ITF 2 of 5 two fixed length setting

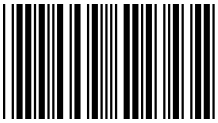
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Save setting to confirm

Save setting to confirm

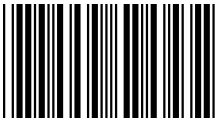
Chinese Post Code Parameters Setting

Chinese post code maximum length setting



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

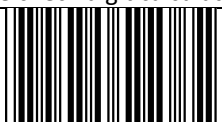
Chinese post code minimum length setting



Save setting to confirm

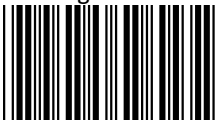
MSI/PLESSY Code Parameters Setting

MSI/PLESSY double check digit calculate but not transmit



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

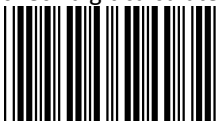
MSI/PLESSY double check digit without calculate and transmit



MSI/PLESSY double check digit calculate but only first digit transmit

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

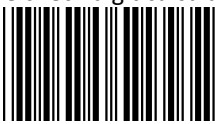
MSI/PLESSY double check digit calculate and both transmit



MSI/PLESSY single check digit calculate but without transmission

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

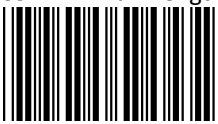
MSI/Plessy single check digit calculate and transmit



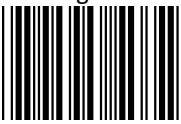
MSI/PLESSY maximum length setting

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

MSI/PLESSY minimum length setting

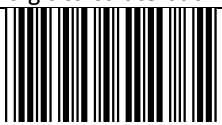


Save setting to confirm



Code 93 Parameters Setting

Code 93 check digit calculate but without transmit



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

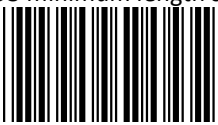
Code 93 check digit not calculate and without transmit

Code 93 check digit calculate and transmit

Code 93 maximum length setting

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

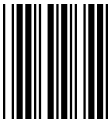
Code 93 minimum length setting



Save setting to confirm

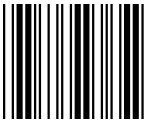
Full ASCII Code Table

Full ASCII ---- SP



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

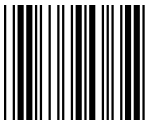
Full ASCII ---- #



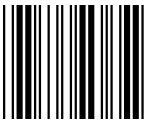
Full ASCII ---- $

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- %

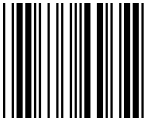


Full ASCII ---- &

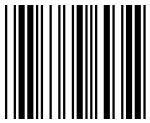


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- *



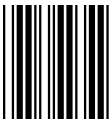
Full ASCII ---- +



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

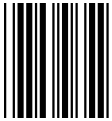
Full ASCII ---- ,

Full ASCII ---- -



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

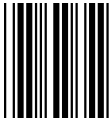
Full ASCII ---- .



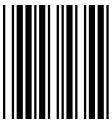
Full ASCII ---- /

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- 0

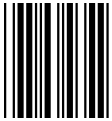


Full ASCII ---- 1

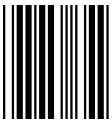


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- 2

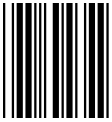


Full ASCII ---- 3

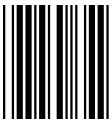


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- 4

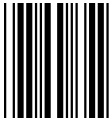


Full ASCII ---- 5

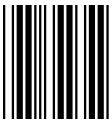


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- 6



Full ASCII ---- 7



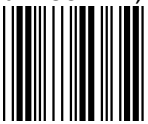
To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- 8

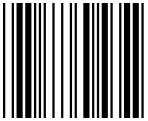
Full ASCII ----9

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- ;

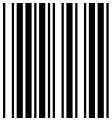


Full ASCII ---- @

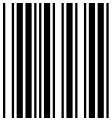


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- A

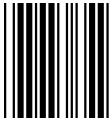


Full ASCII ---- B

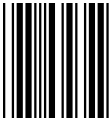


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- C

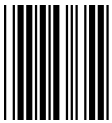


Full ASCII ---- D

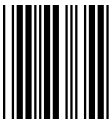


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- E

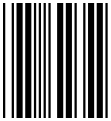


Full ASCII ---- F



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

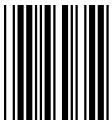
Full ASCII ---- G



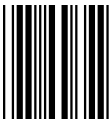
Full ASCII ---- H

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- I

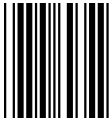


Full ASCII ---- J

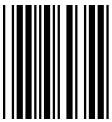


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- K

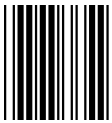


Full ASCII ---- L

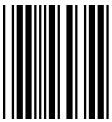


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- M

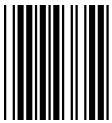


Full ASCII ---- N

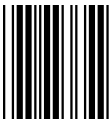


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- O

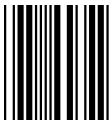


Full ASCII ---- P



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

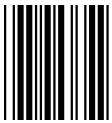
Full ASCII ---- Q



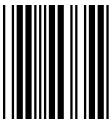
Full ASCII ---- R

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- S

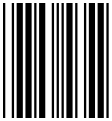


Full ASCII ---- T

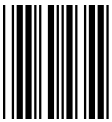


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- U

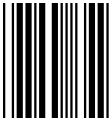


Full ASCII ---- V

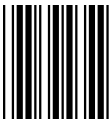


To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- W

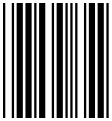


Full ASCII ---- X



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Full ASCII ---- Y

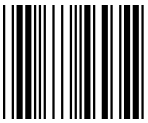


Full ASCII ---- Z

To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

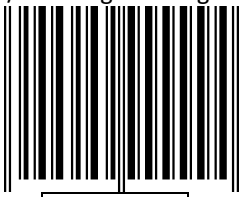
Full ASCII ---- [

Full ASCII ---- ^



To prevent confusion in code scanning, cover the unwanted label and present the desired barcodes one by one to the scanner.

Enter/Exit Programming Mode



Default Value