User's manual

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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.

This 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 FCC Rules. These specifications are designed to provide reasonable protection against interference when operated in a commercial environment.

For CE-countries:
It is in conformity with the CE standards. Please note that a CE-Marked power supply unit should be used to conform to these standards.

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:

- Re-orientate 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 should consult the manufacturer, an authorized dealer or experienced radio/television technician for additional suggestion. 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, Stock No. 004000003454.

Table of Contents

1 Introduction

With an impressive scanning speed, this scanner is a high-speed single line laser handheld scanner that brings about the most effective scanning capability any handheld scanner offers. Guaranteed to bring in efficiency for any retail, office or warehouse environment, it is also enhanced through the built-in Z-SCAN decoding technology. This one of a kind technology provides real-time scanning and hardware decoding capability that ensures an unbeatable first read success rate.

Ergonomically designed, this handheld scanner is available in two different scan engines to choose from. Compared to other similar products on the market, both versions guarantee an impressive, fast and accurate first read success rate. It automatically reads and interprets the world's most popular 1D barcodes. Either scanners pledge high-reliability and superior performance. This slender and lightweight handheld scanner is ruggedly encased. Its durable trigger switch is sturdy enough to withstand heavy usage. The LED display and beeper are programmable to cater to the users' own preference. Equipped with multi-interface communication, the scanner has an outstanding scanning performance that promises to help you achieve boundless possibilities.

2 Scanner and Accessories

The high-speed single line laser handheld scanner package contains:

1 ea. single line laser handheld scanner

1 ea. Communication Cable

1 ea. Power Adapter (only for specific RS-232 cables as optional accessory)

1 ea. User's Manual (this book)

1 ea. Optional scanner stand

If any contents are damaged or missing, please contact your dealer immediately.
Please leave this Users' Manual within easy access of person using the scanner.

3 Quick Start

1. Connect the 10-pin RJ45 male connector into the jack on the scanner. When the connection is made, a “click” will be heard. If the scanner is powered directly from the Host supply, skip to step 4.
2. Connect the L-shaped plug of the power supply into the power jack on the cable.
3. Connect the power supply into an AC outlet. Double check that the AC input requirement of the power supply match the AC outlet.
4. Connect the communication cable to the host (refer to your host manual to locate the correct port.)
5. Turn on the Host system.
6. Once the scanner is properly installed, the red, green, and blue LED will turn on.

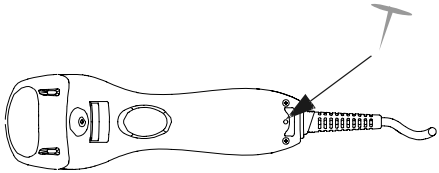
4 Connecting to a Host

1. Turn off the host system.
2. Connect the 10-pin RJ45 male connector into the jack on the scanner. When the connection is made, a “click” will be heard. If the scanner is powered directly from the host supply, skip to step 5.
3. If it is necessary, plug the L-shaped plug of the power supply into the power jack on the cable.
4. Connect the power supply into an AC outlet. (Double check that the AC input requirements of the power supply match the AC outlet.)
5. Connect the cable to the proper port on the host system.
6. Turn on the host system.
7. If the scanner is properly installed, the red-green-blue LED will turn once and 3 power-up beep will be heard.
8. Set the scanner to communicate with your particular POS terminal by scanning the appropriate bar codes. The programming varies on different terminals, for more information consult chapter 13.
9. Verify that the scanner is successfully reading bar codes and transmitting the correct content to the terminal.

5 Disconnecting the Cable from the Scanner

Prior to removing the cable from the scanner, it is highly advised that the power of the host system is turned off, and power supply disconnected from the cable.

1. Locate the small hole at the bottom of the scanner.



2. Use a metallic pin and insert into the hole.
3. Gently pull the strain-relief of the cable once a faint “click” is heard.

6 How to Scan

There are two ways of scanning a bar code. One method is through “Handheld Mode” and the other is through “Stand Mode.” The following explains how these can be achieved.

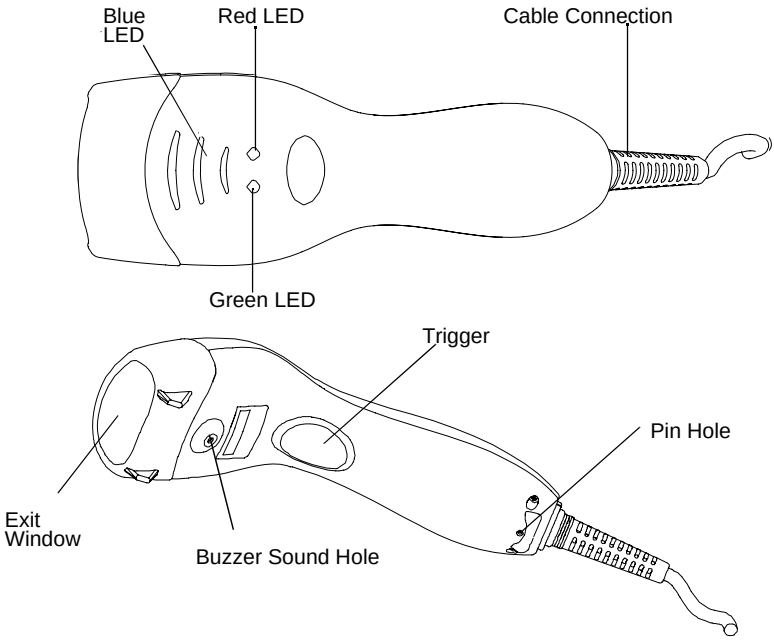
6.1 Scanning in Handheld mode

1. When the scanner is removed from the stand, the trigger scan is activated.
2. Press the trigger and aim at the bar code.
3. When decoding is successful, the scanner beeps and the LED indicate blue/green.

6.2 Scanning in Stand mode

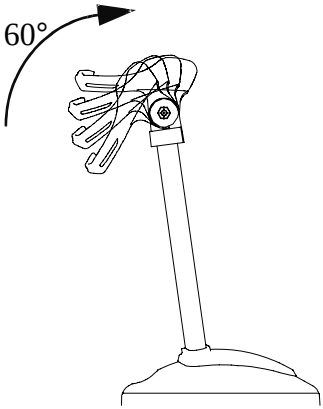
1. The blue LED will blink when the scanner is placed on the optional presentation stand. This indicates that the Stand mode scanning is activated.
2. Present the bar code in the scan field.
3. The bar code will automatically be decoded and transmitted.

7 Scanner Outline

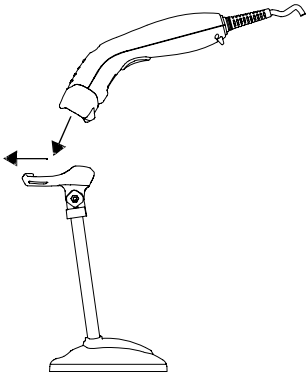


8 Assembling the Optional Stand

The optional self-supporting stand is to facilitate the usage of your scanner. It moves freely and can be placed anywhere on countertops. It can be tilted to a maximum of 60 degrees.



To attach the scanner to the optional stand, hook the scanner on the two holes located at the front of the stand.



9 Visible Indicators

There are three (blue) LED indicator bars and two (green/red) LED indicators on top of the scanner. These indicate the operational status of the scanner.

LED Status	LED Indication
Blue, Red, and Green LEDs are off	These LED will not be on if the scanner has no power from the host or transformer. When the scanner is in stand-by mode, the trigger button is enabled. Present a barcode to the scanner and the red LED will turn on when the laser is turned on.
Steady Blue, Red, and Green	The scanner is in Bootload Mode (firmware upgrade status)
Steady Red	When the laser is active, the red LED is on. The red LED will remain on until the laser is deactivated.
Single Green and Blue Flash	A barcode has been successfully decoded.
Steady Green	A barcode has been successfully decoded, but the object is not removed from the scan window. The scanner is in programming mode.
Steady Red/Green	This indicates the scanner has a motor or laser failure. A beep is heard when a motor failure occurs. Return the unit for repair.
Constant Blue Flashes	While the scanner is on the stand, the laser will turn on (along with the red LED) when a barcode is presented in the scan field. The barcode will be automatically decoded and transmitted.
Alternate Red and Green Flashes	The scanner detects a power failure. Please check whether the power is properly connected.

10 Sound Indicators

When the scanner is in operation, it provides audible feedback. The beeps indicate the status of the scanner.

Beep	Indication
One Beep	A barcode has been successfully decoded.
Three Consequent Beeps	This indicates that the scanner has passed the self-test and is operating properly. When the scanner is powered up.
Two Consequent Beep	This indicates that the scanner is in programming mode.
Continuous Beep Tone	This is a failure indication. Return the unit for repair.

11 Troubleshooting

Problem	Possible Cause	Solution
The scanner has no reaction; no LED, beeps, or laser	The power is not ON	Refer to the “Quick Start” section of the manual
The scanner is functioning but it is not decoding.	The label of the barcode might be disabled. The number of characters of the barcode label does not match the initial setting.	Enable the barcode type from the programming guide. Adjust the label length setting of the barcode type.
When using the KBW interface, the data transmission is slower than usual	The system is not compatible with the international ALT method.	Under properties, select the language property that is suitable for your keyboard.
A barcode is read but not accepted by the host device.	Either a wrong interface is selected or the interface is incorrectly set.	Check the interface, cable used and its settings.
Alternating red and green flashes	There is a power failure in this scanner.	Please check and see if the power is properly connected.
Steady red/green LED	There is a laser failure in the scanner.	Immediately power off the scanner and return the unit for repair.
Characters are being dropped.	The delay time in the inter-character needs to be increased.	Adjust the character delay time.

12 Configuration Modes

This scanner has three programming modes.

12.1 Barcodes

This scanner can be configured by scanning the bar codes located under the “Programming Guide” section. Please refer to this guide for instructions.

12.2 Serial Programming

This mode gives end-users the ability to send a series of commands using the serial port of the host system. For more information, please contact your dealer.

13 Programming Guide

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

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. 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 needed.

During 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.

13.1 Programming Options

Programmable options are divided into four groups. The first group includes the options that show the general behavior of the laser scanner. The second group governs the operation of RS-232C type serial ports. The third group selects the keyboard type that the keyboard emulation type will be emulated. The last group sets the decoding parameters for each barcode symbology.

13.2 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.

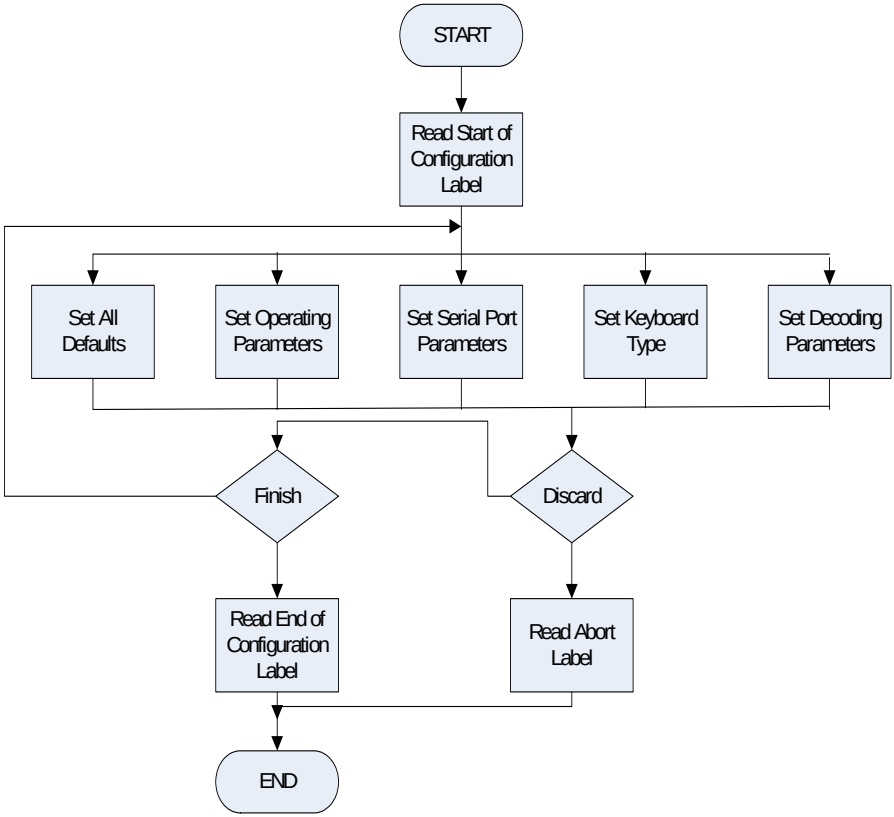
13.3 Factory Default Setting

Scanner Timing	Default
Same code delay	500msec
RS-232 communication	**Default**
Baud rate	9600
Parity	none
Data Bits	8
Stop Bit	1
RTS/CTS	off
Terminator	<CR><LF>
Keyboard Wedge Communication	**Default**
Terminal Type	PC/AT
Keyboard	US keyboard
Terminator	Enter(Alpha numeric)
USB Communication	**Default**
Terminator type	Enter
Code mode	Scan code
Keyboard	US keyboard
Wand Emulation	**Default**
Wand emulation speed	Normal
Data output	Black=high
Decoder Selection	**Default**
EAN/UPC	Enable
CODE 39	Enable
Code 32	disable
CODABAR	Disable
ITF 2 OF 5	Enable
MSI	disable
Chinese Post code	disable
Code 93	Enable
Code 128	Enable
EAN-128	Disable
Beeper sound	**Default**
Frequency	Medium
Duration	100msec
Led/Beep Before transmission	On
Operating parameter	**Default**
Trigger mode(handheld mode)	Enable
Stand mode	Enable
Header and Trailer	None
Inter-Message delay	None
Inter character delay	None
Code Identifiers	**Default**
Identifier code as ZEBEX standard	Disable
Identifier code as AIM standard	Disable
Code 39 identifier code	M
ITF 2 of 5 identifier code	I
Chinese post code identifier code	H
UPC-A identifier code	A
UPC-E identifier code	E
EAN-13 identifier code	F
EAN-8 identifier code	FF
Codabar identifier code	N
Code 128 identifier code	K
Code 93 identifier code	L
MSI identifier code	P

13.4 Default data transmit format

Code	Message format
EAN-13	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13
EAN-8	D1 D2 D3 D4 D5 D6 D7 D8
UPCA	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
UPCE	D1 D2 D3 D4 D5 D6 D7 D8
CODE128	D1-Dx (default 3~62)
EAN128	]C1 D1-Dx (default 3~62)
CODE39	D1-Dx (default 3~62)
CODABAR	D1-Dx (default 6~32)
INTERLEAVED 2/5	D1-Dx (default 6~32)
CHINESE POST CODE	D1-Dx (default 8~32)
CODE93	D1-Dx (default 3~32)
MSI	D1-Dx (default 6~32)

13.5 Program Procedure Using Barcode Manual



13.6 Parameter setting

Note: Default values are highlighted in grey background.

Start Of Configuration

System Function Setting

Barcode Value	Description
	Reset (return to factory default)
	Display firmware version
	Return as customer default
	Save as customer default
	Return to USB default
	Return to wand emulation default
	Return to RS232 default
	IBM PC/AT/PS/2 Keyboard emulation
	Abort (exit programming mode(no update)

End Of Configuration

Start Of Configuration

Scan Function Setting

Handheld Operation

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

Pulse mode
- This scanner will light up and blink when press the scanner trigger switch once. And, the scanner will turn off for next pressing. The laser remains on for approximately 3 to 10 second after enter Pulse light

Auto trigger mode.
- The mode is auto object detect to active laser. Bar code data is transmitted when the trigger button is pressed.

Note: Not all models support this function setting.

Aim mode.
- Normal is pulse mode but Bar code data is transmitted when the trigger button is pressed

Momentary mode.
- The scanner will light up only when the trigger switch is pressed. The scanner will turn off when the trigger switch is released.

Flash on/off timeout duration

Medium

Fast

Slow

End Of Configuration

Start Of Configuration

Scan Function Setting (continued)

Stand Operation

Auto scan in stand mode.

- Auto object detect to active laser and bar code is automatically decoded and transmitted. (Specific models only)
- Always active pulse laser when order without object sensor version

Stand by manual trigger

Scan Angle Change (for specific models only)

Wide scan angle mode

Reduced scan angle mode

Same Code Delay

50msec

100msec

200msec

300msec

400msec

500msec

600msec

700msec

800msec

1000msec

Infinite

End Of Configuration

Start Of Configuration

Operation Function Setting

Good Read Beeper Tone Selection

Medium beeper tone

Low beeper tone

High beeper tone

Speaker disable

Beeper Sound Selection

Long

Medium

Short

Ultra Short

Ultra Long

Loud Volume

Medium Volume

Slight volume

Power-on tone enable

Power-on tone disable

LED/Beep after transmission.

- Use this bar code to indicate a "good read" after a bar code has been successfully decoded.

LED/Beep before transmission

- Use this bar code to indicate a good read" after successfully transmitting the bar code data to the host.

Inter Character Delay

0ms

2ms

5ms

10ms

20ms

50ms

End Of Configuration

Start Of Configuration

Inter Message Delay

0 ms | 100 ms

500 ms | 1000 ms

Interface Settings

1. RS-232C Interface Setting

Baud Rate

115200 | 19200

9600 | 4800

2400 | 1200

Parity Bit

Even parity | Odd parity

Mark parity | Space parity

None parity

Stop Bit

1 stop bit | 2 stop bit

Data Bit

7 data bit | 8 data bit

End Of Configuration

Start Of Configuration

Handshaking Protocol

None handshaking

ACK/NAK

Xon/Xoff

RTS/CTS

Enable BEEPER ON<BEL> CHARACTER

Ignore BEEP ON <BEL> CHARACTER

Disable ACK/NAK timeout beeper

Enable ACK/NAK timeout beeper(three sound beeper sound)

ACK/NAK response time 300ms

ACK/NAK response time 2s

ACK/NAK response time 500ms

ACK/NAK response time 3s

ACK/NAK response time 1s

ACK/NAK response time 5s

ACK/NAK response time infinity

End Of Configuration

Start Of Configuration

Message Terminator

RS-232 message terminator—none

RS-232 message terminator—CR/LF

RS-232 message terminator—C

RS-232 message terminator—LF

RS-232 message terminator—H tab

RS-232 message terminator—STX/ETX

RS-232 message terminator—EOT

2. Keyboard Wedge Setting

Keyboard Wedge Setting

IBM PC/AT/PS/2 Keyboard emulation

International Keyboard mode.(ALT method).

Keyboard language support---USA

Keyboard language support---UK send scan code

Keyboard language support---GERMANY

Keyboard language support---FRENCH send scan code

End Of Configuration

Start Of Configuration

Keyboard Wedge Setting (continued)

Keyboard language support---SPANISH send scan code

Keyboard language support---ITALIAN send scan code

Keyboard language support---Switzerland send scan code

Keyboard language support---Belgium send scan code

Keyboard language support---Japanese

Capital lock on

Capital lock off

Function key emulation enable

Function key emulation disable

Send number as normal data

Send number as keypad data

Message Terminator

Keyboard terminator---none

Keyboard terminator---Enter

Keyboard terminator---H-TAB

End Of Configuration

Start Of Configuration

3. USB Interface Setting

USB interface

International Keyboard mode.(ALT method).

Keyboard language support---USA

Keyboard language support---GERMANY

Keyboard language support---FRENCH send scan code

Keyboard language support---SPANISH send scan code

Keyboard language support---Japanese

Message Terminator

Keyboard terminator---none

Keyboard terminator---Enter

Keyboard terminator---H-TAB

End Of Configuration

Start Of Configuration

4. Wand Emulation Setting

Wand emulation is not supported as standard, if needed, please contact your distributor.

Wand Emulation

All barcode will be decoded and transmitted in that symbology

Enable Wand output data format as CODE39

Wand emulation data output black=high

- Scan this bar code to set quiet zones and spaces low and bars =high.

Wand emulation data output black=low

- Scan this bar code to set quiet zones and spaces high and bars=low

Idle = high

- Idle state refers to the TTL logic level of the Wand Emulation signal when not in use

Idle = low

- Idle state refers to the TTL logic level of the Wand Emulation signal when not in use

Wand emulation speed-----Low

- This option allows the transmission of wand emulation at 1ms narrow element width

Wand emulation speed-----medium

- This option allows the transmission of wand emulation at 600us narrow element width

Wand emulation speed-----normal

Wand emulation speed-----high

- This option allows the transmission of wand emulation at 300us narrow element width

Wand emulation speed-----higher

- This option allows the transmission of wand emulation at 100 us narrow element width

Wand emulation narrow/wide ratio 1:2

Wand emulation narrow/wide ratio 1:3

End Of Configuration

Start Of Configuration

The Symbologies

CODABAR Parameter Setting

Codabar enable

CODABAR disable

Codabar start/stop character transmission-----none

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

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

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

Codabar maximum length setting

Codabar minimum length setting

Save setting to confirm (for length setting)

Codabar concatenation disable

Codabar concatenation enable

No check character

Validate modulo 16,but don’t transmit

End Of Configuration

Start Of Configuration

CODABAR Parameter Setting (continued)

Validate modulo 16 and transmit

Codabar data redundant check=off

Codabar data redundant check=1

Codabar data redundant check=2

Code 39 Parameter Setting

Code 39 enable

Code 39 disable

Code 32 enable

Code 32 disable

Code 39 data redundant check=off

Code 39 data redundant check=1

Code 39 data redundant check=2

Standard code 39

FULL ASCII code 39

Code 39 start/stop character transmission

End Of Configuration

Start Of Configuration

Code 39 Parameter Setting (continued)

Code 39 start/stop character without transmission

Code 39 check digit calculate and transmit

Code 39 check digit calculate but without transmit

No check character

Code 39 maximum length setting

Code 39 minimum length setting

Save setting to confirm (for length setting)

Code 39 concatenation enable

Code 39 concatenation disable

Code 32 (Italian pharmacy) transmit “A” character

Code 32 (Italian pharmacy) without transmit ”A” character

End Of Configuration

Start Of Configuration

Code 93 Parameter Setting (continued)

Code 93 enable

Code 93 disable

Code 93 data redundant check=off

Code 93 data redundant check=1

Code 93 data redundant check=2

Code 93 maximum length setting

Code 93 minimum length setting

Save setting to confirm (for length setting)

Code 93 check digit calculate but without transmit

Code 93 check digit not calculate and without transmit

Code 93 check digit calculate and transmit

End Of Configuration

Start Of Configuration

Code 128

Code 128 enable

Code 128 disable

EAN 128 enable

EAN 128 disable

Code 128 data redundant check=off

Code 128 data redundant check=1

Code 128 data redundant check=2

Code128 FNC2 concatenation enable

Code128 FNC2 concatenation disable

No check character

Calculate but not transmitted

Save setting to confirm (for length setting)

Code 128 maximum length setting

Code 128 minimum length setting

End Of Configuration

Start Of Configuration

Chinese Post Code

Chinese post code enable

Chinese post code disable

Chinese post codedata redundant check=off

Chinese post code data redundant check=1

Chinese post codedata redundant check=2

Chinese post code maximum length setting

Chines post code code minimum length setting

Save setting to confirm (for length setting)

MSI/PLESSY

MSI enable

MSI disable

MSI data redundant check= off

MSI data redundant check=1

MSI data redundant check=2

MSI/PLESSY maximum length setting

MSI/PLESSY minimum length setting

Save setting to confirm (for length setting)

End Of Configuration

Start Of Configuration

MSI/PLESSY (continued)

MSI/Plessy double check digit calculate but not transmit

MSI/Plessy double check digit without calculate and transmit

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

MSI/Plessy double check digit calculate and both transmit

MSI/Plessy single check digit calculate but without transmit

MSI/Plessy single check digit calculate and transmit

ITF 2 of 5

ITF 2 of 5 enable

ITF 2 of 5 disable

IATA code enable

IATA disable

ITF 25 data redundant check=off

ITF25 data redundant check=1

ITF25 data redundant check=2

ITF 2 of 5 code maximum length setting

End Of Configuration

Start Of Configuration

ITF 2 of 5 (continued)

ITF 2 of 5 code minimum length setting

ITF 2 of 5 no check character

ITF 2 of 5 check digit calculate and transmit

ITF 2 of 5 check digit calculate but without transmit

ITF 2 of 5 one Fixed length setting

ITF 2 of 5 two Fixed length setting

ITF 2 of 5 length variable

Save setting to confirm (for length setting)

UPC/EAN/JAN

EAN convert toISSN/ISBN enable

EAN convert to ISSN.ISBN disable

UPC/EAN/JAN enable

UPC/EAN/JAN disable

UPC/EAN/JAN ALL ENABLE

EAN-8 OR EAN-13 ENABLE

UPC-A AND EAN-13 ENABLE

End Of Configuration

Start Of Configuration

UPC/EAN/JAN (continued)

UPC-A AND UPC-E ENABLE

UPC-A ENABEL

UPC-E ENABLE

EAN-13 ENABLE

EAN-8 ENABEL

UPC/EAN Addendum Disable

Add on 5 only

Add on 2 only

Add on 2 or 5

Force UPC-E to UPC-A format enable

Force UPC-E to UPC-A format disable

Force UPC-A to EAN-13 format enable

Force UPC-A to EAN-13 format disable

Transmit UPC-A check digit enable

Transmit UPC-A check digit disable

Transmit UPC-E leading character enable

End Of Configuration

Start Of Configuration

UPC/EAN/JAN (continued)

Transmit UPC-E leading character disable

Transmit UPC-E check digit enable

Transmit UPC-E check digit disable

Transmit EAN-8 check digit enable

Transmit EAN-8 check digit disable

Transmit EAN-13 check digit enable

Transmit EAN-13 check digit disable

Transmit UPC-A leading character enable

Transmit UPC-A leading character disable

Add-on format with separator

Add-on format without separator

EAN/UPC +add-on (none mandatory)

EAN/UPC +add-on (mandatory)

EAN/UPC +add-on mandatory for 378/379 French Supplement requirement, not sent for other

EAN/UPC +add-on mandatory for 978/977 (bookland) Supplement requirement, not sent for other

End Of Configuration

Start Of Configuration

UPC/EAN/JAN (continued)

EAN/UPC +addon mandatory for 434/439 German Supplement requirement, optionally for other

EAN/UPC +addon mandatory for 419/414 Euro amounts Supplement requirement, not sent for other

EAN/UPC +addon mandatory for 414/419 Euro Supplement requirement, optionally for other

EAN/UPC +addon mandatory for 491 Japanese (bookland) Supplement requirement, not sent for other

EAN/UPC +addon mandatory 491 Japanese (bookland) Supplement requirement, optionally for other

Disable all EAN/OPC + Add-on mandatory for specific country code

force EAN-8 to EAN-13 format enable

force EAN-8 to EAN-13 format disable

EAN/UPC +add-on mandatory for 414/419/378/379/978/977/434/439/529/ Euro Supplement requirement, optionally for other

EAN/UPC +add-on mandatory for 414/419/378/379/978/977/434/439/529/ Euro Supplement requirement, not sent for other

EAN-13 country code first “0” can transmitted

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

End Of Configuration

Start Of Configuration

Addendum Seek Timeout

Note: A higher timeout value setting offer more assurance that an addendum has been read correctly while a lower setting allows faster scanning performance.

Addendum seek timeout value=1

Addendum seek timeout value=2

Addendum seek timeout value=3

Addendum seek timeout value=4

Addendum seek timeout value=5

Addendum seek timeout value=6

Addendum seek timeout value=7

Addendum seek timeout value=8

Addendum seek timeout value=9

Addendum seek timeout value=10

2 digit addendum data redundant check=off

2 digit addendum data redundant check=1

2 digit addendum data redundant check=2

2 digit addendum data redundant check=3

5 digit addendum data redundant check=off

End Of Configuration

Start Of Configuration

Addendum Seek Timeout (continued)

5 digit addendum data redundant check=1

5 digit addendum data redundant check=2

5 digit addendum data redundant check=3

Data Editing

Identifier Code

Disable identifier code

Enable identifier code table as ZEBEX standard

Enable identifier code table as AIM standard.

CODE 39 identifier code setting

ITF 2 of 5 identifier code setting

CHINESE POST CODE identifier code setting

UPC-E identifier code setting

UPC-A identifier code setting

EAN-13 identifier code setting

EAN-8 identifier code setting

End Of Configuration

Start Of Configuration

Identifier Code (continued)

CODABAR identifier code setting

CODE 128 identifier code setting

CODE 93 identifier code setting

MSI identifier code setting

Save setting to confirm (for length setting)

Add code length as header enable (2 Bytes)

Add code length as header disable (2 Bytes)

Header And Trailer

Header (Preamble)

Trailer (Postamble)

Truncate header character

Truncate trailer character

End Of Configuration

Start Of Configuration

Full ASCII Code 39 Table

Code 39	ASCII	Hexa-code	Code 39	ASCII	Hexa-code
	Full ASCII ---NUL	00		Full ASCII ---SI Function key-----“Shift”	0F
	Full ASCII ---SOH Function key-----“Ins”	01		Full ASCII ---DLE Function key-----“5(num)”	10
	Full ASCII ---STX Function key-----“Del”	02		Full ASCII ---DC1 Function key-----“F1”	11
	Full ASCII ---ETX Function key-----“Home”	03		Full ASCII ---DC2 Function key-----“F2”	12
	Full ASCII ---EOT Function key-----“End”	04		Full ASCII ---DC3 Function key-----“F3”	13
	Full ASCII ---ENQ Function key-----“Up arrow”	05		Full ASCII ---DC4 Function key-----“F4”	14
	Full ASCII ---ACK Function key-----“Down arrow”	06		Full ASCII ---NAK Function key-----“F5”	15
	Full ASCII ---BEL Function key-----“Left arrow”	07		Full ASCII ---SYN Function key-----“F6”	16
	Full ASCII ---BS Function key----- “Backspace”	08		Full ASCII ---ETB Function key-----“F7”	17
	Full ASCII ---HT Function key-----“TAB”	09		Full ASCII ---CAN Function key-----“F8”	18
	Full ASCII ---LF Function key-----“Enter (alpha numeric”	0A		Full ASCII ---EN Function key-----“F9”	19
	Full ASCII ---VT Function key-----“right arrow”	0B		Full ASCII ---SUB Function key-----“F10”	1A
	Full ASCII ---FF Function key-----“PgUp”	0C		Full ASCII ---ESC Function key-----“F11”	1B
	Full ASCII ---CR Function key----- “Enetr(num.)”	0D		Full ASCII ---FS Function key-----“F12”	1C
	Full ASCII ---SO Function key-----“PgDn”	0E		Full ASCII ---GS Function key-----“ESC”	1D

End Of Configuration

Start Of Configuration

Full ASCII Code 39 Table

Code 39	ASCII	Hexa-code	Code 39	ASCII	Hexa-code
	Full ASCII ---RS Function key-----“CTL(L)”	1E		Full ASCII ----	2D
	Full ASCII ---US Function key-----“ALT(L)”	1F		Full ASCII ---.	2E
	Full ASCII ---SP	20		Full ASCII ---/	2F
	Full ASCII ---!	21		Full ASCII ---0	30
	Full ASCII ---“	22		Full ASCII ---1	31
	Full ASCII ---#	23		Full ASCII ---2	32
	Full ASCII ---$	24		Full ASCII ---3	33
	Full ASCII ---%	25		Full ASCII ---4	34
	Full ASCII ---&	26		Full ASCII ---5	35
	Full ASCII ---‘	27		Full ASCII ---6	36
	Full ASCII --- (	28		Full ASCII ---7	37
	Full ASCII ---)	29		Full ASCII ---8	38
	Full ASCII ---*	2A		Full ASCII ---9	39
	Full ASCII ---+	2B		Full ASCII ---:	3A
	Full ASCII ---,	2C		Full ASCII ---;	3B

End Of Configuration

Start Of Configuration

Full ASCII Code 39 Table

Code 39	ASCII	Hexa-code	Code 39	ASCII	Hexa-code
	Full ASCII ---<	3C		Full ASCII ---K	4B
	Full ASCII ---=	3D		Full ASCII ---L	4C
	Full ASCII --->	3E		Full ASCII ---M	4D
	Full ASCII ---?	3F		Full ASCII ---N	4E
	Full ASCII ---@	40		Full ASCII ---O	4F
	Full ASCII ---A	41		Full ASCII ---P	50
	Full ASCII ---B	42		Full ASCII ---Q	51
	Full ASCII ---C	43		Full ASCII ---R	52
	Full ASCII ---D	44		Full ASCII ---S	53
	Full ASCII ---E	45		Full ASCII ---T	54
	Full ASCII ---F	46		Full ASCII ---U	55
	Full ASCII ---G	47		Full ASCII ---V	56
	Full ASCII ---H	48		Full ASCII ---W	57
	Full ASCII ---I	49		Full ASCII ---X	58
	Full ASCII ---J	4A		Full ASCII ---Y	59

End Of Configuration

Full ASCII Code 39 Table

Code 39	ASCII	Hexa-code	Code 39	ASCII	Hexa-code
	Full ASCII ---Z	5A		Full ASCII ---i	69
	Full ASCII ---[	5B		Full ASCII ---j	6A
	Full ASCII ---\	5C		Full ASCII ---k	6B
	Full ASCII ---]	5D		Full ASCII ---l	6C
	Full ASCII ---^	5E		Full ASCII ---m	6D
	Full ASCII ---_	5F		Full ASCII ---n	6E
	Full ASCII ---`	60		Full ASCII ---o	6F
	Full ASCII ---a	61		Full ASCII ---p	70
	Full ASCII ---b	62		Full ASCII ---q	71
	Full ASCII ---c	63		Full ASCII ---r	72
	Full ASCII ---d	64		Full ASCII ---s	73
	Full ASCII ---e	65		Full ASCII ---t	74
	Full ASCII ---f	66		Full ASCII ---u	75
	Full ASCII ---g	67		Full ASCII ---v	76
	Full ASCII ---h	68		Full ASCII ---w	77

End Of Configuration

Full ASCII Code 39 Table

Code 39	ASCII	Hexa-code
	Full ASCII ---x	78
	Full ASCII ---y	79
	Full ASCII ---z	7A
	Full ASCII ---{	7B
	Full ASCII ---|	7C
	Full ASCII ---}	7D
	Full ASCII ---~	7E
	Full ASCII ---DEL	7F