



User's manual



Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	June. 25, 2010	Initial release

Important Notice

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General Handling Precautions

- Do not dispose 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

Guidance for Printing

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

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Laser Safety

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.

Radiant Energy: The laser scanner uses one low-power visible laser diodes operating at 650nm in an opto-mechanical scanner resulting in less than 3.9 μ W 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 unscanned 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 engine, 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.

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.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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.

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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 Plus 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 slender and lightweight handheld scanner is ruggedly encased; it comes with a standard stand with small footprint to save counter space. It is available in two different scan engines to choose from; either scanners pledge high-reliability and superior performance. It automatically reads and interprets the world's most popular 1D barcodes. 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.

Scanner and Accessories

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

- Single line laser handheld scanner (1 ea.)
- Optional scanner stand (1 ea.)



- Communication cable (1 ea.)



- 5V Power adapter (1 ea.)

(only for specific RS-232 cables as optional accessory)



- CD-ROM (1 ea.)

(Containing manual and programming guide)



If any contents are damaged or missing, please contact your dealer immediately.

Quick Start

1. Connect the 10-pin RJ45 male connector into the jack on the scanner. When the connection is made, a “click” would 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 matches 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 would turn on.

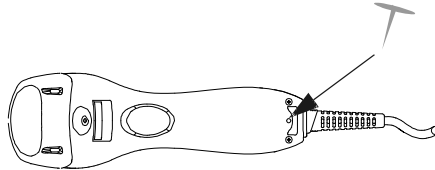
Connecting to A Host

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” would be heard. If the scanner is powered directly from the host supply, skip to step 5.
3. If 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 requirement of the power supply matches 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 on once and 3 power-up beeps will be heard.
8. Set the scanner to communicate with your particular POS terminal by scanning the appropriate barcodes. The programming procedure varies on different terminals. Please refer to chapter 13 for more information.
9. Verify that the scanner is successfully reading barcodes and transmitting correct information to the terminal.

Disconnecting the Cable from the Scanner

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

How to Scan

The scanner can be operated in two different modes: “Handheld Mode” and “Stand Mode.” The following explains how these can be achieved.

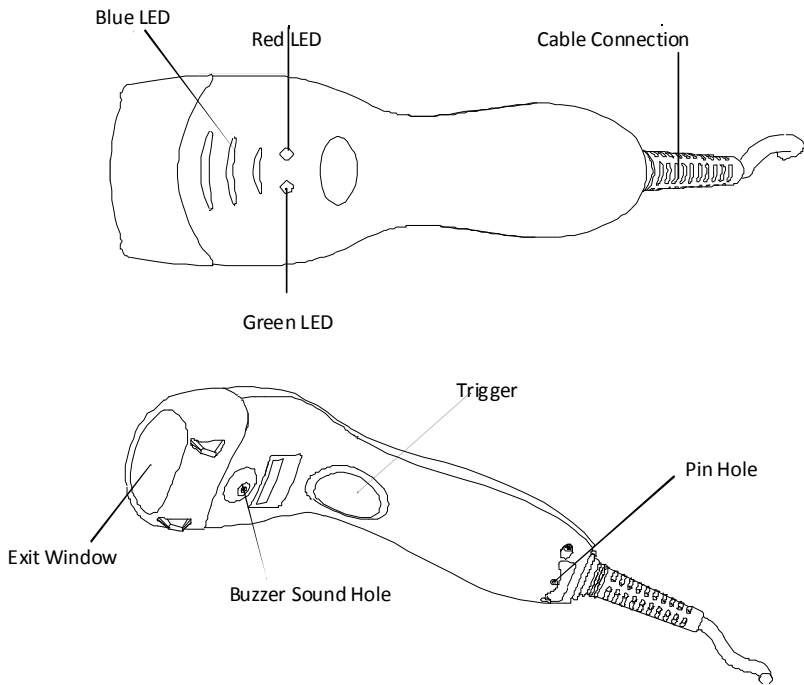
6.1 Scanning in Handheld Mode

1. When the scanner is removed from the stand, the Handheld Mode is automatically activated.
2. Press the trigger and aim at the barcode.
3. When decoding is successful, the scanner beeps and the LED indicate blue/green.

6.2 Scanning in Stand Mode

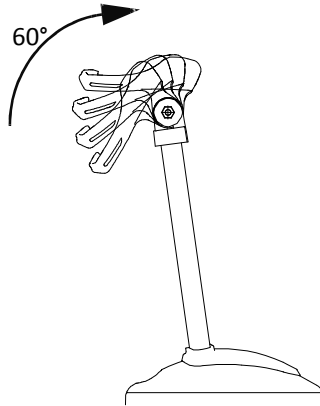
1. The blue LED would blink when the scanner is placed on the optional presentation stand. This indicates that the Stand Mode is activated.
2. Present a barcode in the scan field.
3. The barcode would be automatically decoded and transmitted.

Scanner Outline

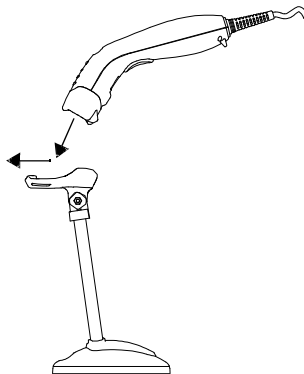


Assembling the Optional Stand

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.



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	*The scanner is not powered. * When the scanner is in stand-by mode, the trigger button is enabled. Present a barcode to the scanner and the red LED would 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 would 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.

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	*The scanner has passed the self-test and is operating properly. * 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.

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 is not decoding.	*The symbology 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.

Configuration Modes

This scanner has two programming modes.

Barcodes

This scanner can be configured by scanning the barcodes located in the below "Programming Guide" section. Please refer to this guide for instructions.

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.

Programming Guide

Scanning a series of programming barcode 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 key-board 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.

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.

Default Parameters

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

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

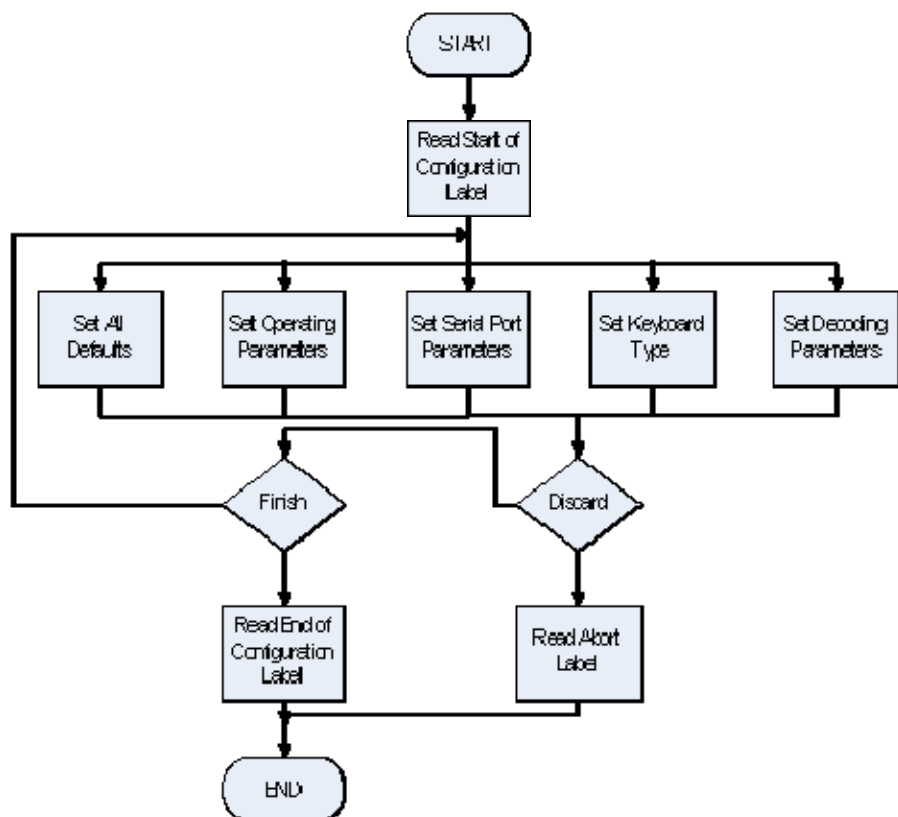
Factory Default Setting (Continued)

Code Identifiers	Default
Identifier code as factory 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

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
Code 128	D1-Dx (default 3~62)
EAN128	C1 D1-Dx (default 3~62)
Code 39	D1-Dx (default 3~62)
Codebar	D1-Dx (default 6~32)
Interleaved 2/5	D1-Dx (default 6~32)
Chinese Post Code	D1-Dx (default 8~32)
Code 93	D1-Dx (default 3~32)
MSI	D1-Dx (default 6~32)

Program Procedure Using Barcode Manual



Parameter setting



Default values are highlighted in gray background.



Start Of Configuration

System Function Setting**Barcode Value****Description**

Reset (return to factory default)



Display firmware version



Return to 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**

- The 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. Barcode data is transmitted when the trigger button is pressed.

**Not all models support this function setting.****Aim mode.**

- Normal is pulse mode but Barcode 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 barcode 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 barcode to indicate a "good read" after a barcode has been successfully decoded.



LED/Beep before transmission

- Use this barcode to indicate a "good read" after successfully transmitting the barcode 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



Keyboard language support---Spanish



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 a standard interface. 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 barcode to set quiet zones and spaces low and bars =high.



Wand emulation data output black=low

- Scan this barcode 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 Symbolologies

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 code data redundant check=off



Chinese post code data redundant check=1



Chinese post code data redundant check=2



Chinese post code maximum length setting



Chinese post 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



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 to ISSN/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 +add-on mandatory for 434/439 German Supplement requirement, optionally for other



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



EAN/UPC +add-on mandatory for 414/419 Euro Supplement requirement, optionally for other



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



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



Disable all EAN/UPC + 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



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 factory 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



Start 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



Start 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



End Of Configuration