

Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	Dec. 20, 2011	Axon Initial release

Important Notice

No warranty of any kind is made in regard to this material, including, but not limited to, implied warranties of merchantability or fitness for any particular purpose. We are not liable for any errors contained herein nor for incidental or consequential damages in connection with furnishing, performance or use of this material. We shall be under no liability in respect of any defect arising from fair wear and tear, willful damage, negligence, abnormal working conditions, failure to follow the instructions and warnings, or misuse or alteration or repair of the products without written approval. No part of this document may be reproduced, transmitted, stored in a retrieval system, transcribed, or translated into any human or computer or other language in any form or by any means electronic, mechanical, magnetic, optical, chemical, biological, manual or otherwise, except for brief passages which may be quoted for purposes of scholastic or literary review, without express written consent and authorization. We reserve the right to make changes in product design without reservation and without notification. The material in this guide is for information only and is subject to change without notice. All trademarks mentioned herein, registered or otherwise, are the properties of their various, ill, assorted owners.

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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Radio Notice

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 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, and 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.

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 3.9μ 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.

Power Supply

- Use only the type of battery and the charging equipments that came with your scanner.
- Using any other type of battery and charging equipment may damage the scanner and invalidate the warranty.
- Do not short the battery terminals. The battery could overheat.
- Do not attempt to split or peel the outer casing.
- Remove the battery if the scanner is not going to be used for a long time. If the battery is left unused for more than 3 months, you need to charge the battery before use.

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Introduction

This scanner is a gun type rugged wireless CCD/Laser barcode scanner with a state of the art scan engine. Featuring a superb scanning speed and able to withstand 1.5 meter drop, it is ideal for manufacturing and logistic sectors.

The cradle, a dongle, or devices with wireless technology can be the host of this scanner. All scanned data are instantly transferred to the connected host in a 100-meter connection range in open space or 75-meter range in indoor environments (the actual communication range may vary due to different indoor placement). This feature eliminates hazardous cables and creates a safer work environment.

Either scanning in the handheld or hands-free mode, this scanner always offers a highaccuracy and reliable scanning ability. This scanner would be your trusted tool scanning partner.

Key Features:

- Superb scanning ability
- Proprietary hardware decoding technology
- 100M long-range wireless connection
- Rugged and ergonomic form factor
- Flexible communications

Product Overview

Scanner



Cradle



Scanner and Accessories

The scanner package contains:

Wireless scanner with battery / Scanner cradle (optional)





(with cradle)

(without cradle)

Li-ion battery pack

Communication cable for cradle (optional)

Mini USB B to mini USB A cable

5V USB Power adapter

CD-ROM or handbook (Containing manual and programming guide)











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

Battery Installation

Installing Batteries

The rechargeable batteries are packed individually for shipping safety. Please follow the steps below to install the batteries.



Always use the rechargeable batteries provided by the manufacturer to avoid any non-compatible danger or void the warranty.

1. Unscrew the cap from the battery compartment at the bottom of the scanner and insert the battery.



2. Make sure the red tag on the battery is tugged in and not blocking the cable connector and close the cap.



3. Tighten the screw on the cap to secure the battery.

Connecting the Cradle

There are two types of cradles to select for this scanner.

- Charging Cradle
- Cradle Host

Charging Cradle

This cradle is designed for battery charging only; it does not support radio communication. Simply connect the power adapter into it and place scanner on the cradle to start charging.

Cradle Host

The cradle host features wireless technology and is designed to support radio communication to the scanner. It has the same charging functionality as the charging cradle so it can be used for battery charging and radio communication.

- 1. Take the desirable interface cable and insert the RJ-45 connector on the bottom of the cradle. You will hear a clear and short "click" sound; then connect the other end to the host.
- 2. Connect the included USB cable of mini USB port in the bottom of the cradle and connect other end to USB power adaptor.
- 3. Connect the USB power adaptor into AC outlet. The LED indicator on the cradle should flash blue until it made connection with the scanner.



When using Keyboard wedge and USB interface for cradle communication, it is not necessary to have an external power adapter if host has sufficient power. But these interfaces need external power adapter when charging batteries.
The mini USB part on the better of the gradle should only be connected.

• The mini USB port on the bottom of the cradle should only be connected using the USB power adaptor. If connect to PC host will drain host power, and may affect the performance of the PC host.

Charging the Battery

The scanner offers two different ways to charge the battery: USB Cable or Cradle.

To charge the battery using the cradle:

- 1. Connect the cradle. Please see Connecting the Cradle section for more details.
- 2. Place the scanner on the cradle. You will hear a short beep sound from the scanner indicating scanner is in contact with the cradle.
- 3. The battery begins charging when the scanner LED indicator starts flashing green. LED turns steady green when charging is complete.



Approx. charging time: 4.5 hours

To charge the battery using the USB cable:

There are two method to charge scanner via USB cable.

- Host USB Power
- Power adaptor
- 1. Connect the mini USB connector directly to the scanner.
- 2. Connect the other end of the USB connector to the host to begin charging. You can also connect the USB cable to an outlet using the power adapter to charge the battery.
- 3. The battery begins charging when the scanner LED indicator starts flashing green. LED turns steady green when charging is complete.



Approx. charging time: 5~6 hours

- The scanner will power on automatically when charging.
- Batteries shipped may not be full charged and should be fully charged for maximum charge capacity.
 - Recommended charging environment is temperature in 0°C~35°C (32° F~95°F).

Power on the Scanner

- 1. Ensure the battery is fully charged. Please refer to the previous section to charge the battery.
- 2. Press and hold the trigger for 1 second until a long beep sound is heard to turn on the scanner.

How to Scan

There are two ways to scan with this device.

- Handheld scanning
- Presentation scanning

Handheld scanning

- 1. Power on the scanner.
- 2. Press the trigger and aim at the barcode as illustrated.
- 3. When decoding is successful, the scanner beeps and the LED indicates blue.



Presentation Scanning

- 1. Put the scanner into the cradle for presentation scanning.
- 2. Move the barcode label approach the scanner scanning zone.
- 3. When decoding is successful, the scanner beeps and the LED indicates blue.



Radio Communication Host Type

This scanner support three radio communication types:

- Cradle Host mode
- SPP master/slave mode
- HID mode

Cradle Host Mode

The scanner communicates with the host through the cradle and the cradle communicates directly to the host via host interface cable connection.

Typically, scanner and cradle in the same delivery box are paired in factory. As soon as both are powered on, they should find and connect to each other immediately.

However, under special circumstance that the scanner and the cradle are not paired with the cradle, please See Cradle Host Pairing for detail operation information.



SPP Mater/SPP Slave Mode

The scanner communicates with the host through wireless connection. Please see

Wireless Mode for detail operation information.



HID Mode

The scanner communicates with the smart phone through wireless HID connection. Please see **BT HID mode** for detail operation information



Paging the Scanner

- 1. Ensure the cradle is properly connected to the host and LED indicator is showing steady blue.
- 2. Press the function trigger on the cradle. You should hear the scanner make 3 beep sounds and blue LED flash 3 times if it is in range.

Scanner USB online to Host

The scanner provides other ways for you to connect to the host. When the radio communication is not available, the scanner can be connected to transmit data via USB Online mode. Please see USB Online Mode for detail operation information.

USB Online Mode

The scanner connects directly to a USB host to recharge and transmit data.



Visible Indicators

Scanner

There are 2 groups of LED indicators on top of the scanner. These indicate the operational status of the scanner.



LED S	Status	Indication
Group_2	Group_1	
	Blue Flashing	Waiting for radio connection (flash time
		0.5s : 0.5s).
	Blue fast Flashing	Radio connecting.
	Blue Slow Flashing	Device connected (flash time 0.03s : 3s).
1 Blue Flashing		A barcode was decoded successfully
Blue Fast Flashing		Data transmission
	Green Flashing	Charging mode
	Steady Green	Battery fully charged
Steady Red		Programming mode
Red flashing slow		Low battery warning
(with continuous		
beep sound)		
Red flash twice		Very low battery warning
(with 2 beep sound)		

Cradle



LED Status		LED Status	Indication	
		Red steady and blue	Cradle is radio disconnected and power from DC	
		continuous flashing	adaptor is lost.	
		Stoody rod and blue	Cradle is radio connected. But lost DC power from the	
	Steady red and blue	adaptor.		
		Red and blue	USB Interface communication failed.	
		interchange		
		Steady blue	Cradle is radio connected.	
		Blue flashing	Cradle is radio disconnected.	

Sound Indicators

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

Веер	Indication
A long beep	Power on scanner.
One beep	A barcode has been successfully decoded and data is
	either transfer to the host or saved in the memory.
1 high - low - high beeps	Scan cradle pair barcode.
Four short medium beeps	Data communication failed or out of range.
Intermission medium-low	Low battery warning.
beeps	
1 short medium – low beeps	Scanner is power down.
1 long high – medium beeps	Enter programming mode.
1 long medium - medium	Exit Programming mode.
beeps	

ACK/NAK Protocol or Frame Packing

When scanner is in SPP Master/Slave mode, and add in the data protocol or packing could confirm the data reliability. Refer to below for different setting options:

a) No ACK/NAK protocol:



b) ACK/NAK only



c) Frame packing:



Scanner to Remote Application

Data Format of Packet

To send a data (barcode) to the remote application, the BT scanner has to encapsulate it:

EAH (Header)	Size of payload	FEH (Format Byte)	Data ID	Data	Barcode Type	AEH (End of Byte)	Reserved Byte
1 byte	1 byte	1 byte	1 byte	Varies	1 byte	1 byte	1 byte

Title	Definition
Header Character (EAH)	The character ID at the head of every data. It has to start with EAH.
Size of Payload	The encapsulated data length excluding header character.
Format Byte (FEH)	Differentiate data format; barcode data is always FEH.
Data ID	The number of each data. If receive the same ID more than once, only the first one is valid, delete the rest.
Barcode Type (1 byte)	Please refer to the Barcode Type Table.
Data	Decoded barcode data.
End of Byte (AEH)	Record data ends.
Reserved Byte	Reserved for future use.

Example:

If Code39 barcode data is "ABCD", than sender sends out: EAH + OAH + FEH + ID + "ABCD "+ 11H+AEH + Reserved Byte OAH = 1+1+1+4+1+1+1

Acknowledge packet

55H (Header)	Data ID	55H (end of byte)
1 byte	1 byte	1 byte

Example:

If scanner sends out:

EAH , OAH , FEH , 01H , "ABCD ", 011H, AEH , EEH Remote acknowledges: 55H +01H + 55H

Barcode Type Table

Code	Value
Code39	0x11
Codabar	0x01
Code128	0x03
Interleaved 2/5	0x02
Code93	0x06
UPC-E	0x14
UPC-A	0x24
EAN-8	0x34
EAN-13	0x44
Chinese Post Code	0x05
MSI	0x07

Programming Guide

Program Procedure Using Barcode Manual

- 1. Power up the scanner.
- 2. Scan the Start of Configuration barcode.
- 3. Scan the barcode for the desired feature. Multiple features can be enabled/disabled before scanning the End of Configuration barcode.
- 4. Scan the End of Configuration barcode and save the new configuration.
- 5. To give up a configuration change, power off the scanner before scanning the End of Configuration barcode or scan the Abort barcode.
- 6. For some parameter setting, such as barcode length and identifier code, it is required to scan the Set barcode to save the configuration.



Default Parameters

The factory default setting 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 scanner is in programming mode. Default values are highlighted in grey background in the settings.

Factory Default Setting

Parameter	Default	
Radio communication		
Wireless host	Cradle Host	
Pairing mode	Unlocked	
Data transmit	Normal	
Radio protocol timeout	5 seconds	
Power off timeout	20 minutes	
Encryption	Enable	
Cradle Host		
RS-232 communication		
Baud rate	9600	
Parity	none	
Data bits	8	
Stop bit	1	
RTS/CTS	off	
Terminator	<cr><lf></lf></cr>	
Keyboard Wedge Communication		
Terminator	PC/AT	
Keyboard	IT keyboard	
Terminator	Enter(Alpha numeric)	
USB Communication		
Terminator	Enter	
Code mode	Scan code	
Keyboard	IT keyboard	
Wand Emulation		
Wand emulation speed	Normal	
Data output	Black=high	
Pair contact on cradle	Enable	
Scanner		
Decoder Selection	Default	

EAN/UPC	Enable
CODE 39	Enable
Pharmacode	Enable
CODABAR	Enable
ITF 2 OF 5	Enable
MSI	Disable
Chinese post code	Disable
Code 93	Disable
Code 128	Enable
EAN-128	Disable
Telepen	Disable
Code 11	Disable
Standard 2 of 5	Disable
Industrial 2 of 5	Disable
GS1 DataBar	Disable
Beeper Sound	Default
Frequency	Medium
Duration	Medium
Operating Parameter	Default
Scan mode	Trigger mode
Stand mode	Enable
Header and trailer	None
Inter-message delay	None
Inter-character delay	None
Code Identifiers	Default
Identifier code as AXON	Disable
standard	
Identifier code as AIM	Disable
standard	
Code 39 identifier code	M
ITF 2 of 5 identifier code	1
Chinese post code identifier	н
code	
UPC-A identifier code	Α
UPC-E identifier code	E
EAN-13 identifier code	F
EAN-8 identifier code	FF
Codabar identifier code	N
Code 128 identifier code	К
Code 93 identifier code	L

MSI identifier code	Р
Code 11 identifier code	0
Standard 2 of 5 identifier code	S
Industrial 2 of 5 identifier	D
code	
GS1 DataBar identifier code	RS
GS1 DataBar Limited identifier	RL
code	
GS1 DataBar Expanded	RX
identifier code	

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)

Connecting to a Host

The scanner provides several data transmit methods to communicate with the host. User may select the method according to their preferences. Read this section to learn the setups for connecting to different hosts.



Start Of Configuration

USB Online Mode

The scanner connects directly to a USB host to recharge and transmit data. You may enable or disable the functions using the following settings.

Disable USB communication.

Disable USB communication



Enable USB communication



Wireless connection as the primary communication option to the host. USB connection is only used when wireless is disconnected.

Set USB as the primary connection



USB online scan, Ignore radio communication

USB connection as the primary communication option to the host when it is available. Wireless mode is set as the secondary option.





Cradle Host Mode

The scanner communicates with the host through the cradle. Typically, scanner and cradle in the same delivery box are paired and corresponded to host interface in factory. To check if the scanner is paired to the cradle, check the scanner LED group1 for slow blue flash and check the top cradle LED for steady blue light. If LED group1 of scanner and top LED of cradle are both flashing blue, follow the steps below to radio connect the scanner and cradle.

Cradle Host Pairing

- 1. See Connecting the Cradle to connect the cradle and the computer. Please make sure the cradle LED is flashing blue indicating it's not linked to any scanner. If the LED shows steady blue, the cradle is already paired to another scanner so you must unpair the scanner before continuing.
- 2. Power on the scanner and enable cradle host mode if necessary.



Enable cradle mode with this set.

- 3. Use the scanner to scan the pairing barcode at the bottom of the cradle to begin pairing. 3 short beeps will be heard.
- 4. The LED indicator on the scanner will flash blue rapidly indicating search mode in process. The LED on the cradle becomes steady blue when the pairing is successful.
- 5. Scan the corresponding host interface the cradle is using to begin using the scanner.



Return to cradle USB communication. (Communication cradle link required)

Return to RS232 cradle communication. (Communication cradle link required)

Cradle IBM PC/AT/PS/2 Keyboard emulation. (Communication cradle link required)

Return to cradle wand emulation. (Communication cradle link required)

Return to wand emulation default



Return to RS232 default

IBM PC/AT/PS/2 Keyboard

emulation





Wireless Mode

The scanner connects to the host via wireless connection. You may select SPP Master or SPP Slave for PC connection or select HID mode and Smart phone mode for smart phone connection.

SPP Slave Mode

In this mode, the scanner connects to the host /PC via wireless connection and performs like there's a serial connection. In SPP Slave mode, the scanner is discoverable from a remote device and it can request the scanner for connection. There are several ways to connect the wireless scanner to your PC. If you have your own applications please check their User's Manuals for pairing instructions.

To connect a wireless device to Window based system for the first time:

- 1. Turn on the host computer and activate its wireless connection.
- 2. Select "Add wireless device". Or open the dialog BT devices and click "Add".
- 3. Power on the scanner and program it with "SPP Slave mode" label.



Enable wireless SPP Slave mode.

Scanner SPP Slave enable

- 4. On Devices tab, click Add. This will open the Add wireless Device Wizard.
- 5. Select the "My device is set up and ready to be found" checkbox, and then click Next.
- 6. The scanner should be on the list of discoverable devices. The default name of the scanner is "ZBBT". Select "ZBBT" and click "Next".
- 7. Select "Let me choose my own passkey" and enter the pin code. The default pin code is "12345678.
- 8. Click "Next" to connect the scanner to the host. A short beep should be heard upon connection.





SPP Master Mode

In this mode, the scanner connects to the host /PC via wireless connection and performs like there's a serial connection. In master mode, the scanner initiates the connection to the remote device.

- 1. Power on of the remote device and have its address ready in hand and make it discoverable.
- 2. Program the scanner with the "SPP Master enable" barcode.



Enable SPP Master mode.

3. Scan "Set wireless address" to set the address.



Set wireless address (SPP Master only) Set wireless address for SPP Master connection.

- 4. Use the ASCII table in Programming Guide to input the 12 digit wireless address. For example: if the address is "011B1345600", scan "0", "0", "1", "1", "B", "1", "3", "4", "5", "6", "0", "0" from ASCII barcode labels.
- 5. Scan "Confirm Setting" to store the address.



- 6. Setup and input the pin code if necessary. Please see Setting Pin Code section for more details.
- 7. Scan "Required Pair with slave (SPP Master)" to begin pairing.



Required Pair with slave (SPP Master)



In SPP Master mode, you can print out a Code39 label of the wireless address in "Bxxxxxxxxxx" format and scan it with the scanner instead of using the ASCII table.





BT HID mode

In BT HID mode, the scanner connects to the host /PC via wireless connection and performs like there's a keyboard connection. The scanner initiates the connection to the remote device.

1. Power on the scanner and program it with "BT HID Mode". To connect a smart mobile phone (for example, iPhone, Android), the Smart phone mode must also be enabled.



Enable wireless HID keyboard emulation

For smart phone mode (BT HID MODE must also be enabled).

- 2. Enable wireless connection on your host and follow the instructions in your host to set it to discover other wireless devices in its surrounding.
- 3. The scanner should be on the list of discoverable devices. The default name of the scanner is "ZBBT". You will be prompt to enter paring pin code. Select "ZBBT" and input the pin code that appears on your mobile device to connect scanner to the phone.
- 4. Scan the Enter barcode to confirm. A short beep should be heard upon connection.







Setting Pin Code

- 1. To change the pin code, use the "Set pin code" setting. Default is "12345678".
- 2. Use the ASCII table in Programming Guide to input the new code (must be at least 4 digits and not more than 8 numeric digits).
- 3. Scan "Save Setting" to store the pin code.



Set pin code (SPP Master only)



Confirm Setting (for address and pin code setting required)



Please check the User's Manual from your PC for wireless address and pin code.

Deleting pin code

To delete pin code, use the "Delete pin code setting".



Delete the stored pin code.

Reset Name

To change the scanner name back to the default name "ZBBT" use the "Default device name" setting.



Change device name back to default "ZBBT".





Setting Name

- 1. To change the name displayed when the scanner is discovered, scan the "Friendly device name set" label. Default name is "ZBBT".
- 2. Use the ASCII table in Programming Guide to input the name (Max.12 digits).
- 3. Scan "Confirm Setting" to store the new name.



Change the display name when scanner is discovered.

Confirm Setting (for address and pin code setting required)

Wireless Discovery

Use the following settings to show or hide the device from wireless discovery.





Make scanner visible to wireless device.

Make scanner invisible to wireless device.





Data Transnit Method

The data transfer method includes three types: Normal (default), Out-of-Range Mode, and Batch Mode. Users may modify this setting according to their preferences.

<u>Normal</u>

When the scanner is within the connection range, the scanned data will be transferred to the host computer immediately. If the scanner is out of its connecting range, the scanner does not send or store any data.



Batch mode is disabled.

Out of Range

Scanned data are stored when scanner is out of its wireless communication range. When scanner is back into its communication range or re-connected, the stored data are sent when scanning next barcode label.



enable

Enable out of range mode.





Batch Mode

Whether within the connection range or not, in batch mode, the scanner stores all scanned data that will be transferred to the host computer after scanning "Send Batch Data" label.

Number of storable bar codes = 61,365 bytes of memory / (number of characters in the bar code +2)



Note: Scanner LED indicator will not flash while waiting for connection in this mode.

Saved data are cleared after they are transferred to the

Scan this label then scan "Save Setting" to delete the

Clearing Batch

Use the settings in this section to clear the stored data.

host.

stored batch data.



send



Clear batch data by scanning "Delete batch data" label



Same as previous setting but with alert sound.

Confirm Setting (for address and pin code setting required)



End Of Configuration

CS 2000 BT Wireless Handheld Gun Type Scanner


Batch Transfer

Use the settings in this section to setup batch transfer.



Scanning this label automatically exits you from the Programming Mode. Press and hold the trigger for over 1 second to send the data.

Data is ready to be transferred upon USB connection. Press and hold the trigger for over 1 second to send the data.

Data is ready to be transferred upon placement on the cradle. Press and hold the trigger for over 1 second to send the data.(Cradle radio connected is required)

Batch Mode Sounds Settings

Use the settings in this section to setup the sound.



Add beeper sound when resending data in Out of range mode.

No beeper sound when resending data

Out of range resend data with beeper sound



Out of range resend data without beeper sound in Out of range mode.



Send Batch Data without beep



No beep when sending data. Good-read LED will light up until the transfer is done.

Beep sound when sending data. Good-read LED will light up until the transfer is done.



System Function Settings

Default values are highlighted in grey background.



End Of Configuration



Barcode Value

Scan Mode











Description

Display firmware version

Abort (exit programming mode without any updates)

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

Auto scan mode The scanner is still active after the data is transmitted but the successive transmission of the same barcode is not allowed when the trigger switch is pressed again.

Alternate mode The scanner illumination alternates between on and off when the trigger switch is pressed.

Presentation mode Also called auto trigger mode. The scanner is inactive but will automatically detect barcodes presented in the scan zone and become active.

Idle mode enable

Idle mode disable Disable Idle mode.





Radio Communication Setting



Cradle Host mode

Cradle Host mode enable Enable cradle mode with this setup.

Unlock pairing mode In this mode, the scanner can pair with another cradle when disconnected. Lock pairing mode. In this mode, the scanner can not pair with another cradle. Undo pairing Undo the pairing between the cradle and the scanner.

Scanner On Cradle sound alert enable Enable beep sound alert when scanner is placed on cradle.

Scanner On Cradle sound alert disable Disable beep sound alert when scanner is placed on cradle.

On Cradle Auto-Scan mode enable Enable Auto-Scan when scanner is placed on cradle.

On Cradle Auto-Scan mode disable Disable Auto-Scan when scanner is placed on cradle.



USB Online mode

USB online scan disable

USB online scan enable

USB online scan, Ignore radio communication

BT HID mode BT HID mode (Combo keyboard)

For Apple mode (Must execute BT HID mode first)



SPP Master/Slave mode

Scanner SPP Master enable SPP Master (Connect wireless address "Bxxxxxxxxxxr" in CODE39 format) Scanner SPP Slave enable

Setting wireless address (SPP Master only)

Set PIN code (SPP Master only)



USER'S MANUAL







 Data Transmit Mode Data transmit normal

Out of range buffer enable

Batch mode

Send Batch Data By Scanning Label

Clear batch data after send

Clear batch data by scanning "Delete batch data" label

Delete batch data

Send Batch Data on line USB cable contact.

Send Batch data on cradle

Out of range resend data with beeper sound

Out of range resend data without beeper sound

Send Batch Data without Beep

Send Batch Data with Beep

End Of Configuration

CS 2000 BT Wireless Handheld Gun Type Scanner



Radio pr	otocol communication parameter Radio protocol timeout= 3 sec
	Radio protocol timeout= 5 sec
	Radio protocol timeout =8 sec
	Radio protocol timeout= 10 sec
	Radio protocol timeout =13 sec
	Radio protocol timeout =16 sec
	Radio protocol timeout= 20 sec



Start Of Configuration

Power off timeout parameter
Power off timeout=5 min
Power off timeout=10 min
Power off timeout=20 min
Power off timeout=30 min
Power off timeout=1 hr
Power Off timeout : 2 hr
Power Off timeout : 4 hr
Power Off timeout : 6 hr
Power Off timeout : 8 hr



End Of Configuration

CS 2000 BT Wireless Handheld Gun Type Scanner



Power Always On

Link beeper enable

Link beeper disable

Power-up beeper enable

Power-up beeper disable

Same Code Delay

Power off by scanning this label

100 msec

50 msec

200 msec

300 msec

400 msec
500 msec
600 msec
700 msec
800 msec
1000 msec
Infinite





Operation Function Setting

 Good Read Beeper Tone Selection Medium beeper tone

High beeper tone



Low beeper tone

Speaker disable





Long

Beeper duration Selection

Medium

Short

Ultra Short

Ultra Long





Vibration Parameter (Optional function, available only for customers of special request) Good read vibrator enable. Good read vibrator disable Good read beeper and vibrator enable Vibration duration=100msec Vibration duration=200msec Vibration duration=300msec Vibration duration=400msec Vibration duration=500msec Vibration duration=1 second Vibration duration=2 second Vibration duration=3 second Vibration duration=4 second Vibration duration=5 second

End Of Configuration

Start Of Configuration

Inter Character Delay 0 ms
2 ms
5 ms
10 ms
20 ms
50 ms
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



Handshaking Protocol None handshaking

ACK/NAK

Xon/Xoff

RTS/CTS

Enable BEEPER ON<BEL> CHARACTER

Ignore Beep on<BEL> character

ACK/NAK response time 300ms

ACK/NAK response time 2 sec

ACK/NAK response time 500 ms

ACK/NAK response time 3 sec

ACK/NAK response time 1 sec

ACK/NAK response time 5 sec

ACK/NAK response time infinity







Message Terminator RS-232 message terminator—none RS-232 message terminator—CR/LF RS-232 message terminator—CR RS-232 message terminator—LF RS-232 message terminator—H tab RS-232 message terminator—STX/ETX RS-232 message terminator—STX/ETX





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 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

USER'S MANUAL



Start Of Configuration



Message Terminator Keyboard terminator---none

Keyboard terminator---Enter

Keyboard terminator---H-TAB





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

Keyboard language support---ITALIAN



Message Terminator Keyboard terminator---none

Keyboard terminator---Enter

Keyboard terminator---H-TAB





4. Wand Emulation Setting

Wand emulation is not supported as standard, if needed, please contact your distributor. (Code128, Code93 not supported)











Codabar Parameter Setting



The Symbologies

1.

Barcode		-
Value RC02	Barcode Label	Description Codabar enable
RD02		Codabar disable
CB05		Codabar start/stop character transmission – none
CB06		Codabar start/stop character transmission—A,B,C,D
CB07		Codabar start/stop character transmission— DC1~DC4
CB08		Codabar start/stop character transmission— a/t,b/n,c/*,d/e
CB09		Codabar maximum length setting
CB10		Codabar minimum length setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)





Barcode Value CB13	Barcode Label	Description No check character
CB14		Validate modulo 16,but don't transmit
CB15		Validate modulo 16 and transmit
DC50		Codabar data redundant check=off
DC51		Codabar data redundant check=1
DC52		Codabar data redundant check=2
DC53		Codabar data redundant check=3





2. Code 39 Parameter Setting

Barcode Value RC01	Barcode Label	Description Code 39 enable
RD01		Code 39 disable
RC13		Pharmacode enable
RD13		Pharmacode disable
DC00		Code 39 data redundant check=off
DC01		Code 39 data redundant check=1
DC02		Code 39 data redundant check=2
DC03		Code 39 data redundant check=3
3901		Standard code 39
3902		Full ASCII code 39
3903		Code 39 start/stop character transmission
3904		Code 39 start/stop character without transmission





Barcode Value 3905	Barcode Label	Description Code 39 check digit calculate and transmit
3906		Code 39 check digit calculate but without transmit
3907		No check character
3908		Code 39 maximum length setting
3909		Code 39 minimum length setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)
3912		Code 32 (Italian pharmacy) transmit "A" character
3913		Code 32 (Italian pharmacy) without transmit "A" character





3. Code 93 Parameter Setting

Barcode Value	Barcode Label	Description
RC08		Code 93 enable
RD08		Code 93 disable
DC30		Code 93 data redundant check=off
DC31		Code 93 data redundant check=1
DC32		Code 93 data redundant check=2
DC33		Code 93 data redundant check=3
9301		Code 93 maximum length setting
9302		Code 93 minimum length setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)
9303		Code 93 check digit calculate but without transmit
9304		Code 93 check digit not calculate and without transmit
9305		Code 93 check digit calculate and transmit





4. Code 128 Parameter Setting

Barcode Value	Barcode Label	Description
RC06		Code 128 enable
RD06		Code 128 disable
RC10		EAN-128 enable
RD10		EAN-128 disable
DC40		Code 128 data redundant check=off
DC41		Code 128 data redundant check=1
DC42		Code 128 data redundant check=2
DC43		Code 128 data redundant check=3
1803		No check character
1804		Calculate but not transmit
1805		Calculate and transmit
1806		Code 128 maximum length setting
1807		Code 128 minimum length setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)

End Of Configuration

CS 2000 BT Wireless Handheld Gun Type Scanner



5. Chinese Post Code Parameter Setting

Barcode Value RC05	Barcode Label	Description Chinese post code enable
RD05		Chinese post code disable
DC60		Chinese post code data redundant check=off
DC61		Chinese post code data redundant check=1
DC62		Chinese post code data redundant check=2
DC63		Chinese post code data redundant check=3
SZ01		Chinese post code maximum length setting
SZ02		Chinese post code minimum length setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)



End Of Configuration

CS 2000 BT Wireless Handheld Gun Type Scanner



6. MSI/Plessy Parameter Setting





7. Code 11 Interface Setting

Barcode	Barcode Label	Description
RC07		Code 11 enable
RD07		Code 11 disable
1101		Code 11 maximum length setting
1102		Code 11 minimum length setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)
1103		Code 11 one check digit verification
1104		Code 11 two check digit verification
1105		Two Check for Code 11 check digit if code length is longer than 10 characters
1106		Disable verification
1107		Code 11 check digit transmitted
1108		Code 11 check digit not transmitted





Start Of Configuration

8. ITF 2 of 5 Parameter Setting				
Barcode Value RC04	Barcode Label	Description ITF 2 of 5 enable		
RD04		ITF 2 of 5 disable		
RC09		IATA code enable		
RD09		IATA disable		
DC80		ITF 25 data redundant check=off		
DC81		ITF25 data redundant check=1		
DC82		ITF25 data redundant check=2		
DC83		ITF25 data redundant check=3		
IT03		ITF 2 of 5 no check character		
IT04		ITF 2 of 5 check digit calculate and transmit		
IT05		ITF 2 of 5 check digit calculate but without transmit		

End Of Configuration

CS 2000 BT Wireless Handheld Gun Type Scanner

USER'S MANUAL



Barcode Value IT01	Barcode Label	Description ITF 2 of 5 code maximum length setting
IT02		ITF 2 of 5 code minimum length setting
IT06		ITF 2 of 5 one fixed length setting
IT07		ITF 2 of 5 two fixed length setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)
IT08		ITF 2 of 5 length variable





9. Standard 2 of 5 Parameter Setting

Barcode Value RC22	Barcode Label	Description Standard 2 of 5 code enable
RD22		Standard 2 of 5 code disable
D051		Standard 2 of 5 code maximum length setting
D052		Standard 2 of 5 code minimum length setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)
0055		Standard 2 of 5 code no check character
D053		Standard 2 of 5 code no check character Standard 2 of 5 code check digit calculate and transmit





10. Industrial 2 of 5 Parameter Setting

Barcode Value RC21	Barcode Label	Description Industrial 2 of 5 code enable
RD21		Industrial 2 of 5 code disable
D251		Industrial 2 of 5 code maximum length setting
D252		Industrial 2 of 5 code minimum length setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)
D253		Industrial 2 of 5 code no check character
D254		Industrial 2 of 5 code check digit calculate and transmit
D255		Industrial 2 of 5 code check digit calculate but without transmission




11. UPC/EAN/JAN Parameter Setting

Barcode Value	Barcode Label	Description
RC11		EAN convert to ISSN/ISBN enable
RD11		EAN convert to ISSN/ISBN disable
RC03		UPC/EAN/JAN enable
RD03		UPC/EAN/JAN disable
UE01		UPC/EAN/JAN all enable
UE02		EAN-8 or EAN-13 enable
UE03		UPC-A and EAN-13 enable
UE04		UPC-A and UPC-E enable
UE05		UPC-A enable
UE06		UPC-E enable
UE07		EAN-13 enable
UE08		EAN-8 enable
UE09		UPC/EAN Addendum disable





Barcode Value	Barcode Label	Description
UE10		Add on 5 only
UE11		Add on 2 only
UE12		Add on 2 or 5
UE13		Force UPC-E to UPC-A format enable
UE14		Force UPC-E to UPC-A format disable
UE15		Force UPC-A to EAN-13 format enable
UE16		Force UPC-A to EAN-13 format disable
UE44		Force EAN-8 to EAN-13 format enable
UE45		Force EAN-8 to EAN-13 format disable
UE17		Transmit UPC-A check digit enable
UE18		Transmit UPC-A check digit disable
UE19		Transmit UPC-E leading character enable
UE20		Transmit UPC-E leading character disable
UE21		Transmit UPC-E check digit enable
UE22		Transmit UPC-E check digit disable
	En	d Of Configuration



Barcode Value	Barcode Label	Description
UE23		Transmit EAN-8 check digit enable
UE24		Transmit EAN-8 check digit disable
UE25		Transmit EAN-13 check digit enable
UE26		Transmit EAN-13 check digit disable
UE27		Transmit UPC-A leading character enable
UE28		Transmit UPC-A leading character disable
UE30		Add-on format with separator
UE31		Add-on format without separator
UE60		EAN-13 country code first "0" can be transmitted
UE61		EAN-13 country code first:"0" can't be transmitted
UE66		EAN-13 with first 0 ID code same as "UPC-A"
UE67		EAN-13 with first 0 ID code same as "EAN-13"
DC10		UPC-A data redundant check=off
DC11		UPC-A data redundant check=1





Barcode Value	Barcode Label	Description
DC12		UPC-A data redundant check=2
DC13		UPC-A data redundant check=3
DC14		UPC-E data redundant check=off
DC15		UPC-E data redundant check=1
DC16		UPC-E data redundant check=2
DC17		UPC-E data redundant check=3
DC20		EAN-13 data redundant check=off
DC21		EAN-13 data redundant check=1
DC22		EAN-13 data redundant check=2
DC23		EAN-13 data redundant check=3
DC24		EAN-8 data redundant check=off
DC25		EAN-8 data redundant check=1
DC26		EAN-8 data redundant check=2
DC27		EAN-8 data redundant check=3
UE32		EAN/UPC +add-on (none mandatory)
UE33		EAN/UPC +add-on (mandatory)
	End O	f Configuration



UE35	EAN/UPC +add-on mandatory for 978/977 bookland (Supplement requirement, not sent for other)
UE38	EAN/UPC +addon mandatory for 978/977 bookland (Supplement requirement, optional for other)
UE42	EAN/UPC +addon mandatory for 491 Japanese bookland (Supplement requirement, not sent for other)
UE43	EAN/UPC +addon mandatory 491 Japanese bookland (Supplement requirement, optional for other)



USER'S MANUAL



12. Telepen Parameter Setting

Barcode Value RC25	Barcode Label	Description Telepen enable
RD25		Telepen disable
TE03		Telepen numeric mode enable
TE04		AIM Telepen enable





13. Matrix 2 of 5 Parameter Setting

Barcode Value RC12	Barcode Label	Description Matrix 2 of 5 enable
RD12		Matrix 2 of 5 disable
D151		Matrix 2 of 5 maximum length setting
D152		Matrix 2 of 5 minimum length setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)
D153		Matrix 2 of 5 no check character
D154		Matrix 2 of 5 check digit calculate and transmit
D155		Matrix 2 of 5 check digit calculate but without transmission





14. GS1 DataBar Parameter Setting

There are 7 kinds of barcodes in the GS1 DataBar family and they are categorized into three groups. Barcode types in the same group use the same barcodes for setting.

Group	Representative	Contents
Group 1	GS1 DataBar Omnidirectional	GS1 DataBar Omnidirectional
	(Formally RSS-14)	GS1 DataBar Truncated
		GS1 DataBar Stacked
		GS1 DataBar Stacked Omnidirectional
Group 2	GS1 DataBar Limited (Formally RSS Limited)	GS1 DataBar Limited
Group 3	GS1 DataBar Expanded	GS1 DataBar Expanded
	(Formally RSS Expanded)	GS1 DataBar Expanded Stacked

GS1 DataBar Omnidirectional (Formally RSS-14)

Barcode Value	Barcode Label	Description
RC15		GS1 DataBar Omnidirectional enable
RD15		GS1 DataBar Omnidirectional disable
SS00		Transmit GS1 DataBar Omnidirectional check digit
SS01		Do not transmit GS1 DataBar Omnidirectional check digit
SS02		Transmit GS1 DataBar Omnidirectional application ID (01)
SS03		Do not transmit GS1 DataBar Omnidirectional application ID (01)
SS05		GS1 DataBar Omnidirectional /EAN-128 emulation enable
SS04		GS1 DataBar Omnidirectional /EAN-128 emulation disable





	GS1 DataB	ar Limited (Formally RSS Limited)
Barcode Value	Barcode Label	Description
RC16		GS1 DataBar Limited enable
RD16		GS1 DataBar Limited disable
SS10		Transmit GS1 DataBar Limited check digit
SS11		Don't transmit GS1 DataBar Limited check digit
SS12		Transmit GS1 DataBar limited application ID (01)
SS13		Do not transmit GS1 DataBar limited application ID



USER'S MANUAL



_	GS1 DataBar	Expanded (Formally RSS Expanded)
Barcode Value	Barcode Label	Description
RC17		GS1 DataBar Expanded enable
RD17		GS1 DataBar Expanded disable
SS07		GS1 DataBar Expanded/EAN-128 emulation enable
SS06		GS1 DataBar Expanded/EAN-128 emulation disable
SS08		GS1 DataBar Expanded check digital enable
SS09		GS1 DataBar Expanded check digital disable
SS16		Transmit GS1 DataBar Expanded application ID (01)
SS17		Do not transmit GS1 DataBar Expanded application ID



End Of Configuration

CS 2000 BT Wireless Handheld Gun Type Scanner



Data Editing

1. Identifier Code





Barcode Value CI08	Barcode Label	Description Codabar identifier code setting
CI09		Code 128 identifier code setting
CI10		Code 93 identifier code setting
CI11		MSI identifier code setting
CI12		GS1 DataBar Omnidirectional identifier code setting
CI13		GS1 DataBar Limited identifier code setting
CI14		GS1 DataBar expanded identifier code setting
CI15		Industrial 2 of 5 identifier code setting
CI16		Code 11 Identifier code setting
CI17		Standard 2 of 5 identifier code setting
CI18		Matrix 2 of 5 identifier code setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)
End Of Configuration		Configuration



Start Of Configuration

2. Hea	der and Trailer	
Barcode Value CP11	Barcode Label	Description Add code length as header enable (2 digits)
CP12		Add code length as header disable (2 digits)
HT01		Header (Preamble)
HT02		Trailer (Postamble)
HT03		Truncate header character
HT04		Truncate trailer character
SET		Confirm to save this setting (required for reading full ASCII table and length setting)





Full ASCII Code 39 Table

Code 39	ASCII
	Full ASCIINUL
	Full ASCIISOH Function key"Ins"
	Full ASCIISTX Function key"Del"
	Full ASCIIETX Function key"Home"
	Full ASCIIEOT Function key"End"
	Full ASCIIENQ Function key"Up arrow"
	Full ASCIIACK Function key"Down arrow"
	Full ASCIIBEL Function key"Left arrow"
	Full ASCIIBS Function key "Backspace"
	Full ASCIIHT Function key"TAB"
	Full ASCIILF Function key"Enter (alpha numeric)"
	Full ASCIIVT Function key"right arrow"
	Full ASCIIFF Function key"PgUp"
	Full ASCIICR Function key "Enetr(num.)"
	Full ASCIISO Function key"PgDn"

	Hexa
ASCII	-
	code
II ASCIINUL	00
II ASCIISOH Inction key"Ins"	01
ll ASCIISTX inction key"Del"	02
ll ASCIIETX Inction key"Home"	03
ll ASCIIEOT Inction key"End"	04
ll ASCIIENQ Inction key"Up row"	05
III ASCIIACK Inction key"Down row"	06
ll ASCIIBEL Inction key"Left row"	07
II ASCIIBS Inction key ackspace"	08
ll ASCIIHT Inction key"TAB"	09
ll ASCIILF Inction key"Enter Ipha numeric)"	0A
II ASCIIVT	0B

Code 39	ASCII	Hexa- code
	Full ASCIISI Function key"Shift"	OF
	Full ASCIIDLE Function key "5(num)"	10
	Full ASCIIDC1 Function key"F1"	11
	Full ASCIIDC2 Function key"F2"	12
	Full ASCIIDC3 Function key"F3"	13
	Full ASCIIDC4 Function key"F4"	14
	Full ASCIINAK Function key"F5"	15
	Full ASCIISYN Function key"F6"	16
	Full ASCIIETB Function key"F7"	17
	Full ASCIICAN Function key"F8"	18
	Full ASCIIEN Function key"F9"	19
	Full ASCIISUB Function key"F10"	1A
	Full ASCIIESC Function key"F11"	1B
	Full ASCIIFS Function key"F12"	1C
	Full ASCIIGS Function key"ESC"	1D

End Of Configuration

0C

0D

0E

CS 2000 BT Wireless Handheld Gun Type Scanner

-



Full ASCII Code 39 Table (continued)

Code 39	ASCII	Hexa- code	Code 39	ASCII	Hexa- code
	Full ASCIIRS Function key"CTL(L)"	1E		Full ASCII	2D
	Full ASCIIUS Function key"ALT(L)"	1F		Full ASCII	2 E
	Full ASCIISP	20		Full ASCII/	2F
	Full ASCII!	21		Full ASCII0	30
	Full ASCII"	22		Full ASCII1	31
	Full ASCII#	23		Full ASCII2	32
	Full ASCII\$	24		Full ASCII3	33
	Full ASCII%	25		Full ASCII4	34
	Full ASCII&	26		Full ASCII5	35
	Full ASCII'	27		Full ASCII6	36
	Full ASCII (28		Full ASCII7	37
	Full ASCII)	29		Full ASCII8	38
	Full ASCII*	2A		Full ASCII9	39
	Full ASCII+	2B		Full ASCII:	3A
	Full ASCII,	2C		Full ASCII;	3B



End Of Configuration

CS 2000 BT Wireless Handheld Gun Type Scanner



Full ASCII Code 39 Table (continued)

Code 39	ASCII	Hexa- code	Code 39	ASCII	Hexa- code
	Full ASCII<	3C		Full ASCIIK	4B
	Full ASCII=	3D		Full ASCIIL	4C
	Full ASCII>	3E		Full ASCIIM	4D
	Full ASCII?	3F		Full ASCIIN	4E
	Full ASCII@	40		Full ASCIIO	4F
	Full ASCIIA	41		Full ASCIIP	50
	Full ASCIIB	42		Full ASCIIQ	51
	Full ASCIIC	43		Full ASCIIR	52
	Full ASCIID	44		Full ASCIIS	53
	Full ASCIIE	45		Full ASCIIT	54
	Full ASCIIF	46		Full ASCIIU	55
	Full ASCIIG	47		Full ASCIIV	56
	Full ASCIIH	48		Full ASCIIW	57
	Full ASCIII	49		Full ASCIIX	58
	Full ASCIIJ	4A		Full ASCIIY	59





Full ASCII Code 39 Table (continued)

Code 39	ASCII	Hexa- code	Code 39	ASCII	Hexa- code
	Full ASCIIZ	5A		Full ASCIIi	69
	Full ASCII[5B		Full ASCIIj	6A
	Full ASCII\	5C		Full ASCIIk	6B
	Full ASCII]	5D		Full ASCIII	6C
	Full ASCII^	5E		Full ASCIIm	6D
	Full ASCII	5F		Full ASCIIn	6E
	Full ASCII`	60		Full ASCIIo	6F
	Full ASCIIa	61		Full ASCIIp	70
	Full ASCIIb	62		Full ASCIIq	71
	Full ASCIIc	63		Full ASCIIr	72
	Full ASCIId	64		Full ASCIIs	73
	Full ASCIIe	65		Full ASCIIt	74
	Full ASCIIf	66		Full ASCIIu	75
	Full ASCIIg	67		Full ASCIIv	76
	Full ASCIIh	68		Full ASCIIw	77



End Of Configuration

CS 2000 BT Wireless Handheld Gun Type Scanner



Full ASCII Code 39 Table (continued)

Code 39	ASCII	Hexa- code	Code 39	ASCII	Hexa- code
	Full ASCIIx	78		Full ASCII	7C
	Full ASCIIy	79		Full ASCII}	7D
	Full ASCIIz	7A		Full ASCII~	7E
	Full ASCII{	7B		Full ASCIIDEL	7F



Appendix 1: USB Virtual COM Driver Installation

Contact your distributor to get the driver and follow the steps below to enable USB virtual COM port.

- 1. Connect the handheld scanner and the host (e.g. a PC) with a USB interface cable.
- 2. Enable USB virtual COM port with programming barcode on page 29.
- 3. After the programming, the host would request driver installation. Browse your files to locate the driver and start installation.
- 4. The USB virtual COM port is ready for use after driver installation.

Appendix 2: Barcode Length Setting

Introduction

The length of a barcode is the number of characters it contains, including check digits. As listed in the Default Parameters section, each barcode type has different default length. You may change the setting by the following procedure.

To set up barcode length, the paramours to be determined are barcode type and the desired barcode length. Barcode length is consisted of 2 digits. For numbers smaller than 10, you need to add a "0" in the front.

<u>Example</u>

If the barcode length is 4 to 12 digits, the steps would be as below:



Use the ASCII table (Appendix 4) to set up barcode length. Be sure to enable the full ASCII code 39 option before you start and read the "Set" label to set your choice into memory.