



# User's Manual

**Gun Type Wireless 2D Image Handheld Scanner**



## Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	2017/6/21	Initial release
1.1	2017/8/2	New battery information
1.2	2017/8/28	Added Multi mode
1.3	2019/5/9	Added (Optional) to cable clip

# **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.

## 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 EN55032 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.

## 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.

## Wireless Communication

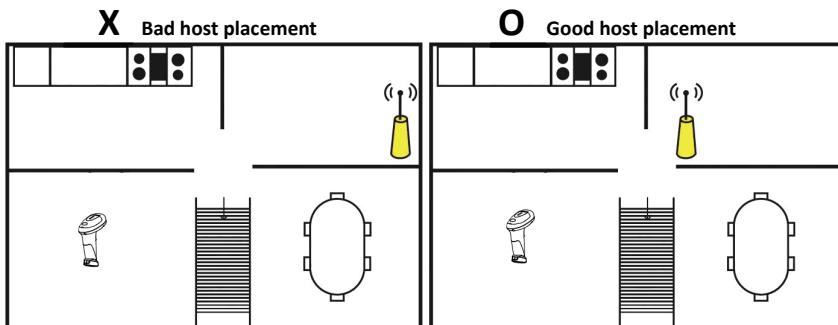
- Wireless technology operates 100M / 75M with communication cradle. Maximum communication range may vary depending on obstacles (person, metal, wall, etc.) or electromagnetic environment.
- The following conditions may affect the sensitivity of wireless communication.
  - There is an obstacle such as a person, metal, or wall between this unit and wireless device.
  - A device using 2.4 GHz frequency, such as a wireless LAN device, cordless telephone, or microwave oven, is in use near this unit.
- Because wireless devices and wireless LAN (IEEE802.11b/g) use the same frequency, microwave interference may occur and resulting in communication speed deterioration, noise, or invalid connection if this unit is used near a wireless LAN device. In such a case, perform the following.
  - Use this unit at least 10 m (about 30 ft) away from the wireless LAN device.

- If this unit is used within 10 m (about 30 ft) of a wireless LAN device, turn off the wireless LAN device.
- Install this unit and wireless device as near to each other as possible.
- Microwaves emitting from a wireless device may affect the operation of electronic medical devices. Turn off this unit and other wireless devices in the following locations, as it may cause an accident.
  - Where inflammable gas is present, in a hospital, train, airplane, or a petrol station
  - Near automatic doors or a fire alarm
- This unit supports security capabilities that comply with the wireless standard to provide a secure connection when the wireless technology is used, but security may not be enough depending on the setting. Be careful when communicating using wireless technology.
- We do not take any responsibility for the leakage of information during wireless communication.
- Connection with all wireless devices cannot be guaranteed.
  - A device featuring wireless function is required to conform to the wireless standard specified by wireless SIG, and be authenticated.
  - Even if the connected device conforms to the above mentioned wireless standard, some devices may not be connected or work correctly, depending on the features or specifications of the device.
- Depending on the device to be connected, it may require some time to start communication.

## Tips to help improve your wireless network

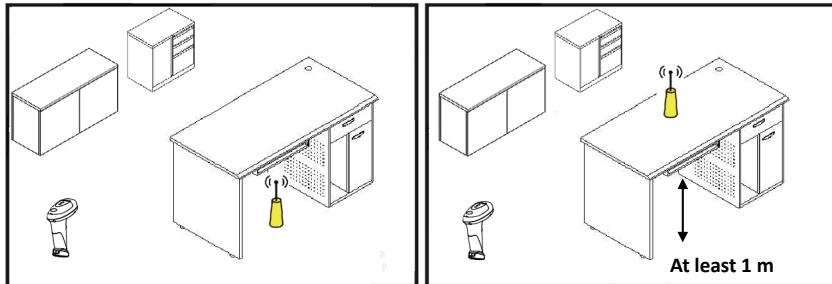
1. Position the access point (host/cradle) in a relatively empty space at central location.

When possible, place the access point in a central location on the high ground (1m or above). If your access point is against an outside wall, the signal will be weak on the other side of the room.



**X** Bad host placement

**O** Good host placement



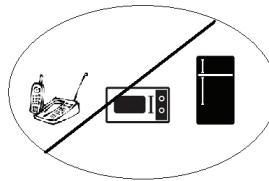
2. Move the access point (host/cradle) off the floor and away from walls and metal objects (such as metal file cabinets). Metal objects, walls, and floors will interfere with your wireless signals. The closer your access point is to these obstructions, the more severe the interference, and the weaker your connection will be.

### 3. Reduce wireless interference.

The most common wireless technology, 802.11g (wireless-G), operates at a frequency of 2.4 gigahertz (GHz). Many cordless phones, microwave ovens, hospital equipments, refrigerator, LED, and other wireless electronics also use this frequency. If you use these wireless devices in your office, your device might not be able to "hear" the signals over the noise coming from them.

If your network uses wireless-G, you can quiet the noise by avoiding wireless electronics that use the 2.4 GHz frequency. Instead, look for cordless phones and other devices that use the 5.8 GHz or 900 megahertz (MHz) frequencies. Because 802.11n (wireless-N) operates at both 2.4 GHz and the less frequently used 5.0 GHz frequency, you may experience less interference on your network if you use this technology.

#### Avoid possible wireless interference



### 4. Update the firmware or driver of your wireless dongle.

If you are using a wireless dongle or other similar devices to make the connection, getting the latest firmware or driver updates may improve the performance. Visit your manufacturer's website for the updates.

## Battery Information

- Use only a ZEBEX approved batteries.
- Using any other type of battery and charging equipment may damage the device and invalidate the warranty.
- Store batteries at half of full charge in a dry, cool place, removed from the equipment to prevent loss of capacity, rusting of metallic parts and electrolyte leakage.
- When batteries are stored over six (6) months, some irreversible deterioration in overall battery quality may occur.
- When storing batteries for over a year, the charge level should be verified at least once every 6 months and charged to half of full charge.

## Battery Safety

- The area in which the units are charged should be clear of debris and combustible materials or chemicals. Particular care should be taken where the device is charged in a non-commercial environment.
- Follow battery usage, storage, and charging guidelines found in the user guide.
- Improper battery use may result in a fire, explosion, or other hazard.
- To charge the device battery, the battery and charger temperature must be between 0°C ~ +45°C
- Do not use incompatible batteries and chargers. Use of an incompatible battery or charger may present a risk of fire, explosion, leakage, or the hazard.
- Do not disassemble or open, crush, bend or deform, puncture, or shred.
- Severe impact from dropping any battery-operated device on a hard surface could cause the battery to overheat.
- Do not short circuit a battery or allow metallic or conductive objects to contact the battery terminals.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard.
- Do not leave or store the equipment in or near areas that might get very hot, such as in a parked vehicle or near a radiator or other heat source. Do not place battery into a microwave oven or dryer.
- Battery usage by children should be supervised.
- Please follow local regulations to promptly dispose of used re-chargeable batteries.
- Do not dispose of batteries in fire.

- Seek medical advice immediately if a battery has been swallowed. In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with large amounts of water and seek medical advice.
- Do not short the battery terminals. The battery could overheat.
- Do not attempt to split or peel the outer casing.

## Battery Maintenance

These are recommendations to extend the life of the battery pack:

- When charging the battery for the first time, charge for at least 12 hours prior to use.
- Remove the battery if the device 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.
- If the battery is not installed, recharge the battery every 6 months to prevent damage to the battery cells.
- The battery capacity is reduced at temperature extremes, high and low.

## Table of Contents

Important Notice.....	ii
General Handling Precautions.....	ii
Guidance for Printing .....	ii
For CE-Countries.....	iii
Wireless Communication.....	iii
Battery Information.....	vi
Battery Safety .....	vi
Battery Maintenance .....	vii
Introduction .....	1
Product Overview .....	2
Scanner .....	2
Cradle .....	2
Scanner and Accessories.....	3
Battery Installation.....	4
Installing Cable Clip .....	5
Connecting the Cradle.....	6
Connecting the Cradle.....	7
Charging the Battery .....	8
Power on the Scanner .....	9
How to Scan .....	10
Radio Communication Host Type.....	11
Cradle Host Mode .....	11
SPP Master/SPP Slave Mode .....	11
HID Mode .....	12
Multi Mode .....	12
Paging the Scanner.....	12
Scanner USB online to Host .....	13
USB Online Mode .....	13
Visible Indicators .....	14
Scanner .....	14
Cradle .....	15
Sound Indicators .....	15
ACK/NAK Protocol or Frame Packing.....	16
Pin-out Configuration.....	17
Cable Pin-out.....	18
Programming Guide .....	19
Connecting to a Host.....	24
Cradle Host Mode .....	24
Wireless Mode .....	25
Program Settings .....	32
Appendix 1: USB Virtual COM Driver Installation .....	89
Appendix 2: Barcode Length Setting .....	90

# Introduction

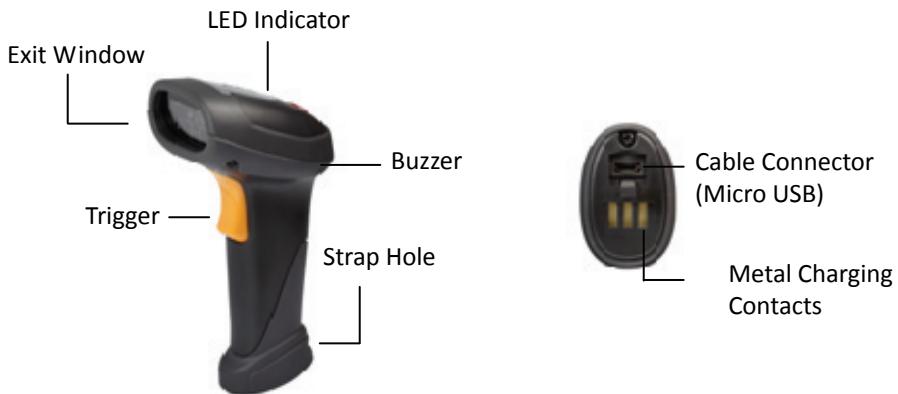
Z-3392BT is the newly designed, rugged, gun-type 2D image readers built for tough environments. The affordable and versatile scanner offers toughness to general applications with great performance. The premier 2D image reader is perfect for retail, warehousing, and asset management. The great value of this scanner makes your buying decision easier than ever.

- Ergonomic, rugged design
- Decode most 1D & 2D barcodes
- Flashing LED indication and programmable beeper
- Affordable high performance

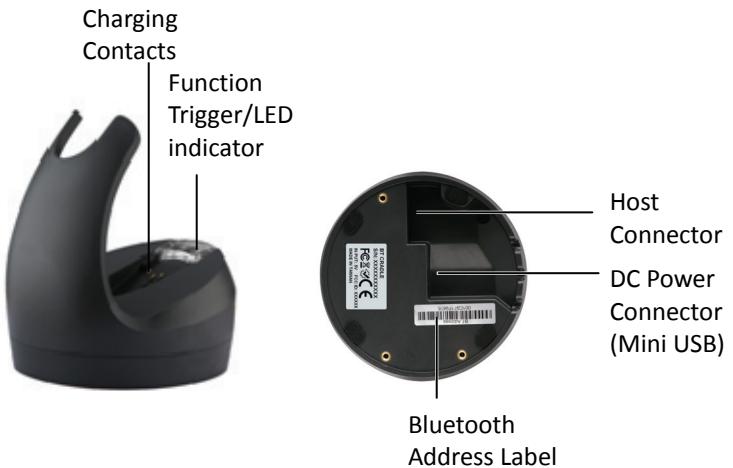
# Product Overview

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## 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 USB A cable



5V USB Power adapter



Micro USB B to USB A cable  
(optional)



Cable clip (optional)



# 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.

# Installing Cable Clip

Optional accessory cable clip is used to hold the micro USB cable in USB Online Mode. With the cable clip, you can easily transform your wireless scanner into a wired one.

## Attaching Cable Clip

1. Insert the cable clip to the strap hole as shown.



2. Gently turn the cable clip counter-clockwise and push the cable clip all the way through the strap hole.



3. Attach the bottom part of the cable clip to the scanner handle.



4. Insert the USB cable as illustrated below.



Removing Cable Clip

1. Detach the cable from the clip and detach the bottom part of the cable clip from the scanner handle.



2. Unhook the left part of the cable clip from the strap hole then turn it clockwise. While in turning motion, push the cable clip all the way through.



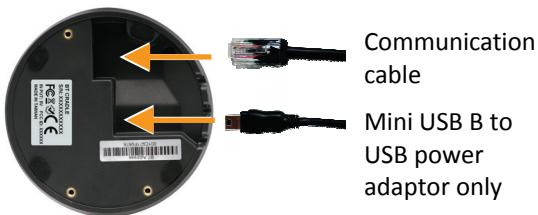
3. Remove the cable clip from the strap hole.



# Connecting the Cradle

The cradle host features wireless technology and is designed to support radio communication to the scanner. It can be used for both 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 to mini USB port at 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 port on the bottom of the cradle should only be connected using the USB power adaptor. Please do not connect the USB cable to a PC host for charging when using the cradle.

# 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.

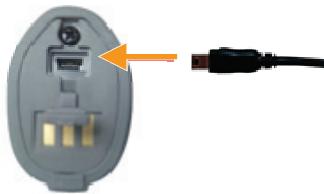


Approx. charging time: 5 hours

## 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 micro 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: 10 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

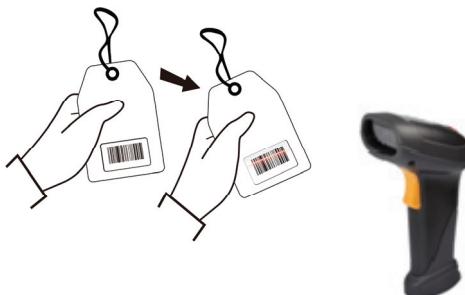
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There are two ways to scan with this device.

- Handheld scanning
- Presentation scanning

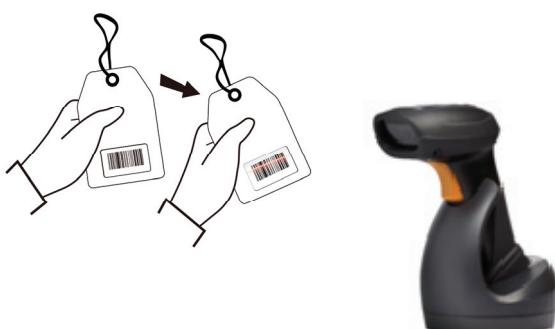
## Handheld scanning

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 Master/SPP Slave Mode

The scanner communicates with the host through wireless connection.

Please see for detail operation information.



## HID Mode

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



## Multi Mode

The scanner communicates with the host through wireless dongle connection.  
Please see for detail operation information



## Paging the Scanner

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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

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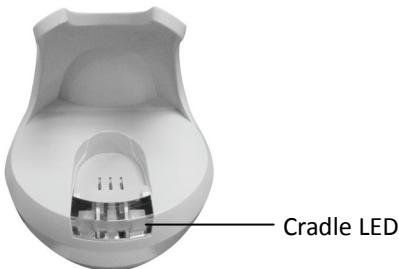
## Scanner

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



LED Status		Indication
Group_1	Group_2	
	Blue Flashing	Waiting for radio connection (flash time 0.5s : 0.5s).
	1 Blue fast Flashing	Radio connecting.
	2 Blue Slow Flashing	Device connected (flash time 0.05s : 7s).
	3 1 Blue Flashing	A barcode was decoded successfully (1-2-3)
Green Flashing		Charging mode
Steady Green		Battery fully charged
Red flash once (with 2 beep sound)		low battery warning

## Cradle



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

## Sound Indicators

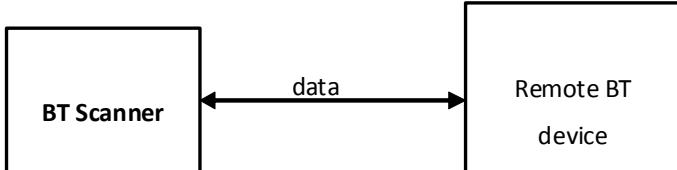
When the scanner is in operation, it provides audible feedback. The beeps indicate the status of the scanner.

Beep	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 beeps	Low battery warning.
1 short medium – low beeps	Scanner is power down.
1 medium – high beeps	Enter programming mode.

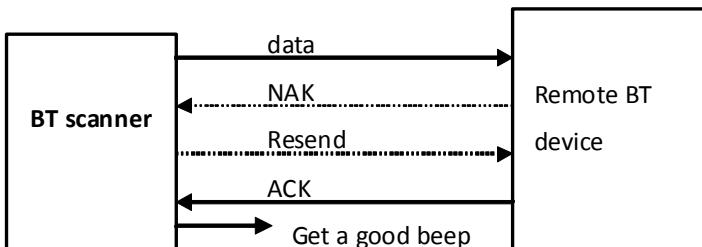
# ACK/NAK Protocol or Frame Packing

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:

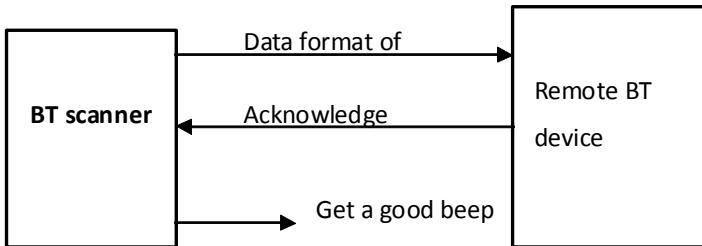
- a) No ACK/NAK protocol:



- b) ACK/NAK only



- c) Frame packing:



# Pin-out Configuration

**Scanner Micro USB Pin-Out Configuration**

PIN 1.	+5V
PIN 2.	USB_D-
PIN 3.	USB_D+
PIN 4.	NC
PIN 5.	GND

**Cradle Phone Jack Pin-Out Configuration**

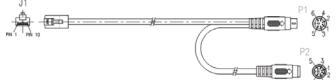
RJ 1.	RTS_EIA	RJ 6.	RX_EIA
RJ 2.	KB Data / USB_D+	RJ 7.	KB Clock
RJ 3.	PC Clock / USB_D-	RJ 8.	+5V
RJ 4.	GND	RJ 9.	PC Data
RJ 5.	CTS_EIA	RJ10.	TX_EIA

**Cradle Mini USB Pin-Out Configuration**

PIN 1.	DC+5V
PIN 2.	NC
PIN 3.	NC
PIN 4.	NC
PIN 5.	GND

# Cable Pin-out

## 1. Keyboard Wedge Cable (for PS/2)



PIN-OUT CONFIGURATION			
MINI DIN (M)		MINI DIN(F)	
DIN	FUNCTION	DIN	FUNCTION
1.	PC Data	1.	KB Data
2.	N.C.	2.	N.C.
3.	GND	3.	GND
4.	+5V	4.	+5V
5.	PC Clock	5.	KB Clock
6.	N.C.	6.	N.C.

## 2. RS-232 Cable (DTE pin out)



PIN-OUT CONFIGURATION	
DB-9 (F)	FUNCTION
2	TX
3	RX
7	CTS
8	RTS
5	GND
9	+5V

## 3. RS-232 Cable (DCE pin out)



PIN-OUT CONFIGURATION	
DB-9 (F)	FUNCTION
2	RX
3	TX
7	CTS
8	RTS
5	GND
9	+5V

## 4. USB / Virtual COM USB / OPOS USB Interface with Detachable Cable Type A

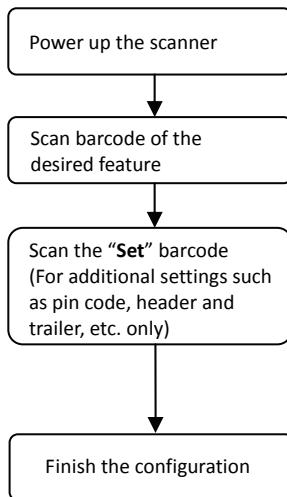


USB TYPE A CONNECTOR	FUNCTION
1.	VCC
2.	D-
3.	D+
4.	VSS

# Programming Guide

## Program Procedure Using Barcode Manual

1. Power up the scanner.
2. Scan the barcode for the desired feature. Multiple features can be enabled/disabled.
3. 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

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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
<b>Radio communication</b>	
Wireless host	Cradle Host
Pairing mode	Unlocked
Data transmit	Normal
Radio protocol timeout	5 seconds
Power off timeout	20 minutes
Encryption	Enable
<b>Cradle Host</b>	
<b>RS-232 communication</b>	
Baud rate	9600
Parity	none
Data bits	8
Stop bit	1
RTS/CTS	off
Terminator	<CR><LF>
<b>Keyboard Wedge Communication</b>	
Terminator	PC/AT
Keyboard	US keyboard
Terminator	Enter(Alpha numeric)
<b>USB Communication</b>	
Terminator	Enter
Code mode	Scan code
Keyboard	US keyboard
<b>Pair contact on cradle</b>	Enable

<b>Scanner</b>	
<b>Decoder Selection</b>	<b>Default</b>
EAN/UPC	Enable
CODE 39	Enable
Code 32	Disable
CODABAR	Enable
ITF 2 OF 5	Enable
MSI	Disable
Chinese post code	Disable
Code 93	Enable
Code 128	Enable
EAN-128	Disable
Telepen	Disable
Code 11	Disable
Standard 2 of 5	Disable
Industrial 2 of 5	Disable
GS1 DataBar	Disable
<b>Beeper Sound</b>	<b>Default</b>
Frequency	Medium
Duration	Medium
<b>Operating Parameter</b>	<b>Default</b>
Scan mode	Trigger mode
Stand mode	Enable
Header and trailer	None
Inter-message delay	None
Inter-character delay	None
<b>Code Identifiers</b>	<b>Default</b>
Identifier code as ZEBEX standard	Disable
Identifier code as AIM standard	Disable

<b>Code Identifier Settings</b>	ZEBEX	AIM
CODE 39 identifier code setting	M	]A0
ITF 2 of 5 identifier code setting	I	]I0
CHINESE POST CODE identifier code setting	H	]h0
UPC-E identifier code setting	E	]E0
UPC-A identifier code setting	A	]E0
EAN-13 identifier code setting	F	]E0
EAN-8 identifier code setting	FF	]E0
CODABAR identifier code setting	N	]F0
CODE 128 identifier code setting	K	]C0
CODE 93 identifier code setting	L	]G0
MSI identifier code setting	N	]M0
GS1 Databar identifier code setting	RS	]e
GS1 Databar limited identifier code setting	RL	]e
GS1 Databar expanded identifier code setting	RX	]e
Industrial 2 of 5 Identifier code setting	D	]S0
Code 11 Identifier code setting	O	]H0
Standard 2 of 5 Identifier code setting	S	]R0
Matrix 2of 5 (Japanese) Identifier code setting	G	]J0
Telepen identifier code setting	T	]T2
PDF417 identifier code setting	p	]L0
QR Code identifier code setting	q	]Q1
DataMatrix identifier code setting	d	]d1
AZTEC identifier code setting	a	]z0
Maxi code identifier code setting	m	]U0

**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 14)
CHINESE POST CODE	D1-Dx (default 8~32)
CODE93	D1-Dx (default 4~55)
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.

## 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

Cradle Host mode enable

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.

## 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 "Z3392BT". Select "Z3392BT" and click "Next".
7. Select "Let me choose my own passkey" and enter the pin code. The default pin code is "12345678".
7. 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.

Scanner SPP Master enable

3. Scan “Set wireless address” to set the address.



Set wireless address for SPP Master connection.

Set wireless address  
(SPP Master only)

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, then scan Set barcode to save the configuration.



Set

5. Scan Required Pair with slave (SPP Master) to begin pairing.



Begin pairing with slave device(SPP Master)

Required Pair with slave (SPP Master)

## 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”.



Enable wireless HID keyboard emulation

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 “Z3392BT”. You will be prompt to enter paring pin code. Select “Z3392BT” 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.

## Multi mode

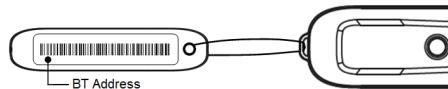
In Multi mode, the scanner connects to the host /PC via dongle wireless connection. The scanner initiates the connection to the remote device.

1. Insert the BT USB dongle in an USB port of the host.
2. Scan barcode below to set 2D BT scanner in Multi Mode.



Enable wireless Multi mode

3. Scan the enclosed **BT address** label to connect the scanner to the host. The LED indicator on the scanner will flash rapidly indicating search mode in process.



4. The LED on the dongle becomes steady blue when the pairing is successful.
5. To connect other scanners, repeat steps 2 to 4. You may connect up to 7 scanners at the same time.

**Note.** Scan the barcode below to program the parameter of maximum data size for a single scan.



Maximum data size for a single scan is **256 bytes** /  
1 to 7 scanners (**Default**)



Maximum data size for a single scan is **2048 bytes** /  
1 to 4 scanners

#### Smart Phones

For smart phones/tablets with iOS 7 or Android 5.0 and higher:

1. Enable SSP function to connect to the host without a pin code.



Enable Secure Simple Pairing

Enable Apple mode

2. The scanner should be on the list of discoverable devices. The default name of the scanner is “Z3392BT”.
3. Select “Z3392BT” from the list to connect the device.

## Multimedia Keyboard

For all other iOS and Android versions (Default Setting):

1. Enable Multimedia keyboard mode to display on-screen keyboard on the mobile device when you press the Function button.



**Multimedia Keyboard mode**

2. Enable wireless connection on your host and 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 "Z3392BT". Select "Z3392BT" from the list.
4. Use the scanner to scan the ASCII table in previous section to input pin code. For example: if the pin code is "0111", scan "0", "1", "1", "1" from ASCII barcode labels, then scan Set barcode to save the configuration.



**Set**

5. Scan the Enter barcode to confirm.

## Setting Pin Code

1. To change the pin code, use the "Set pin code" setting. Default is "12345678".



**Set pin code (SPP Master only)**

**Set pin code**

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), then scan Set barcode to save the configuration.



**Set**



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 pin code

Delete the stored pin code

### Reset Name

To change the scanner name back to the default name “Z3392BT” use the “Default device name” setting.



Default device name

Change device name back to default “Z3392BT”

### Setting Name

1. To change the name displayed when the scanner is discovered, scan the “Friendly device name set” label. Default name is “Z3392BT”.



Friendly device name set

Change the display name when scanner is discovered

2. Use the ASCII table in Programming Guide to input the name (Max.12 digits).
3. Scan “Confirm Setting” to store the new name.



Set

## Wireless Discovery

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



Discover enable

Make scanner visible to wireless device



Discover disable

Make scanner invisible to wireless device

# Program Settings

Default values are highlighted in grey background.

Barcode Value	Description
	Return scanner to factory defaults
	Return cradle host to factory defaults
	Return to USB default (Communication cradle link required)
	Return to RS232 default (Communication cradle link required)
	Return as USB-virtual COM port default
	Display firmware version
	IBM PC/AT/PS/2 keyboard emulation (Communication cradle link required)

## Scan Modes

	<b>Trigger mode</b> The scanner becomes inactive as soon as the data is transmitted. It must be triggered to become active again.
	<b>Auto scan mode</b> 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.
	<b>Presentation mode</b> Also called auto trigger mode. The scanner is inactive but will automatically detect barcodes presented in the scan zone and become active.

## USB Online Mode

	<b>USB online mode</b> The scanner connects directly to a USB host to recharge and transmit data. You may enable or disable the functions using the following settings.
---	--

AIM light , illumination Light control

	NO_USE_ILLUM
	USE_ILLUM
	NO_USE_AIM
	USE_AIM
	AIM no flash
	AIM flash

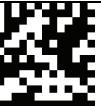
Radio Communication Settings

BT HID mode	
	BT HID mode (Combo keyboard)
	For Apple mode (Enter PIN CODE then scan SET)
	Multi Media Keyboard ( For Apple Mode)
	Software Keyboard ON/OFF( For Apple Mode)

<b>SPP Master/Slave mode</b>	
	Scanner SPP Master enable SPP Master
	Scanner SPP Slave enable
	Setting wireless address (SPP Master only)
	Set PIN code (SPP Master only)
	Default Device name
	Friendly device name set
	Delete pin code
	Required Pair with slave (SPP Master)
	Discover enable
	Discover disable
	Encryption enable
	Encryption disable

<b>Multi mode</b>	
	
	Maximum data size allowed for a single scan is 256 bytes / 1 to 7 scanners
	
	Maximum data size allowed for a single scan is 2048 bytes /1 to 4 scanners

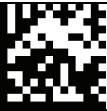
Functional Settings

Same Code Delay		
		50 msec
		100 msec
		200 msec
		300 msec
		400 msec
		500 msec
		600 msec
		700 msec
		800 msec
		1000 msec
		Infinite

Good Read Beeper Tone Selection	
	Medium beeper tone
	High beeper tone
	Low beeper tone
	Speaker disable
Beeper duration Selection	
	Long
	Medium
	Short
	Ultra Short
	Ultra Long

Vibrator Selection		
		Vibrator enable
		Vibrator disable

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	

<b>RS-232C Interface Setting</b>		
Baud Rate		
	115200	
	19200	
	9600	
	4800	
	2400	
	1200	

<b>Parity Bit</b>		
	Even parity	
	Odd parity	
	Mark parity	
	Space parity	
	None parity	

<b>Stop Bit</b>	
	1 stop bit
	2 stop bit
<b>Data Bit</b>	
	7 data bit
	8 data bit

<b>Handshaking Protocol</b>	
	None handshaking
	ACK/NAK
	Xon/Xoff
	RTS/CTS
	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

<b>Message Terminator ( For Cradle)</b>	
	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—EOT

Keyboard Wedge Setting ( For Cradle )		
		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
	Alphabet follow as keyboard <b>RS-232 also available</b>
	Alphabet always upper case <b>RS-232 also available</b>
	Alphabet always Lower case <b>RS-232 also available</b>

Message Terminator( For Cradle )		
		Keyboard terminator---none
		Keyboard terminator---Enter
		Keyboard terminator---H-TAB

<b>Terminator( For Scanner )</b>	
	Message terminator—none
	message terminator—CR/LF
	message terminator—CR
	message terminator—LF
	message terminator—H tab
	message terminator—STX/ETX
	message terminator—EOT
	Alphabet follow as keyboard <b>RS-232 also available</b>
	Alphabet always upper case <b>RS-232 also available</b>
	Alphabet always Lower case <b>RS-232 also available</b>

Symbology Settings

<b>CODABAR</b>	
	Codabar enable
	CODABAR disable
	Codabar data redundant check=off
	Codabar data redundant check=1
	Codabar data redundant check=2
	Codabar data redundant check=3
	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 start/stop character transmission -a,b,c,d

	Codabar maximum length setting
	Codabar minimum length setting
	No check character
	Validate modulo 16, but don't transmit
	Validate modulo 16, but transmit

Code39		
	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	

		Code 39 data redundant check=3
		Standard code 39
		FULL ASCII code 39
		Code 39 start/stop character transmission
		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
		Code39 Data Redundant check = off
		Code39 Data Redundant check = 1

		Code39 Data Redundant check = 2
		Code39 Data Redundant check = 3
		Code 32 (Italian pharmacy) transmit "A" character
		Code 32 (Italian pharmacy) without transmit "A" character

Code 93		
		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 data redundant check=3
		Code 93 maximum length setting
		Code 93 minimum length setting

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	
		Code 128 data redundant check=3
	Code 128 maximum length setting	
		Code 128 minimum length setting

Chinese post code(SLZ)	
	Chinese post code enable
	
	Chinese post code data redundant check=off
	
	Chinese post code data redundant check=2
	
	Chinese post code check digit calculate and transmit
	

MSI/PLESSY	
	MSI enable
	
	MSI/PLESSY maximum length setting
	
	MSI/Plessy double check digit calculate but not transmit
	
	MSI/Plessy double check digit calculate but only first digit transmit
	
	MSI/Plessy single check digit calculate but without transmit
	

CODE 11		
		CODE 11 enable
		CODE 11 disable
		CODE 11 maximum length setting <b>Default length 6 ~32 character</b>
		CODE 11 minimum length setting
		Disable verification
		Code 11 check digit transmitted
		Code 11 check digit not transmitted

ITF 2 of 5		
		ITF 2 of 5 enable
		ITF 2 of 5 disable
		ITF 25 data redundant check=off
		ITF 25 data redundant check=1

	ITF25 data redundant check=2
	
	ITF 2 of 5 code maximum length setting
	
	ITF 2 of 5 no check character
	
	ITF 2 of 5 check digit calculate but without transmit
	
	ITF 2 of 5 two Fixed length setting
	

Telepen		
		Telepen Enable
		Telepen Disable

Pharmacode		
		Pharmacode Enable
		Pharmacode Disable

UPC/EAN/JAN		
		EAN convert to ISSN/ISBN enable
		EAN convert to ISSN.ISBN disable
		UPC/EAN/JAN enable
		UPC/EAN/JAN disable
		EAN-8 OR EAN-13 ENABLE
		UPC-A AND EAN-13 ENABLE

		UPC-A AND UPC-E ENABLE
		UPC-A ENABEL
		UPC-E ENABLE
		EAN-13 ENABLE
		EAN-8 ENABEL
		UPC/EAN ADDon off
		Addon 5 only
		Addon 2 only
		Addon 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
		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
		Addon format with separator
		Addon format without separator
		EAN/UPC +addon (none mandatory)
		EAN/UPC +addon (mandatory)
		EAN-8 to EAN-13 format enable
		force EAN-8 to EAN-13 format disable
		EAN-13 first "0" can transmitted
		EAN-13 first:"0" can't transmitted
		EAN-13 with first 0 ID code same as "UPC-A"
		EAN-13 with first 0 ID code same as "EAN-13"
		double code disable(9784/192) default

		double code enable(9784/192)
		double code send for other default
		double code not send 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
		EAN/UPC +addon mandatory for 978/977 (bookland) Supplement requirement, not sent for other
		EAN/UPC +addon mandatory for 978/977 (bookland) Supplement requirement, optionally for other
		UPC-A data redundant check=off
		UPC-A data redundant check=1
		UPC-A data redundant check=2
		UPC-A data redundant check=3
		UPC-E data redundant check=off

		UPC-E data redundant check=1
		UPC-E data redundant check=2
		UPC-E data redundant check=3
		EAN-13 data redundant check=off
		EAN-13 data redundant check=1
		EAN-13 data redundant check=2
		EAN-13 data redundant check=3
		EAN-8 data redundant check=off
		EAN-8 data redundant check=1
		EAN-8 data redundant check=2
		EAN-8 data redundant check=3

Standard 2 of 5		
		STD 2 of 5 code enable
		STD 2 of 5 code disable
		Standard 2 of 5 check digit calculate and transmit
		Standard 2 of 5 check digit calculate without transmit
		STD 2 of 5 code maximum length setting Default:6~32
		STD 2 of 5 code minimum length setting

Industrial 2 of 5		
		Industrial 2 of 5 Enable
		Industrial 2 of 5 Disable
		Industrial 2 of 5 check digit calculate and transmit
		Industrial 2 of 5 check digit calculate without transmit
		Industrial 2 of 5 code maximum length setting Default:6~32
		Industrial 2 of 5 code minimum length setting

Matrix 2 of 5	
	Matrix 2/5 code enable
	
	Matrix(Japanese) 2/5 code enable
	
	Matrix 2/5 code maximum length setting
	
	Matrix 2 of 5 check digit calculate and transmit
	

GS1 Databar	
	GS1 Databar enable
	
	GS1 Databar LIMITED enable
	
	GS1 Databar EXPANDED enable
	
	GS1 Data Redundant check = off
	
	GS1 Data Redundant check = 2
	
	GS1 Limited Data Redundant check = off
	
GS1 Limited Data Redundant check = 1	

	GS1 Limited Data Redundant check = 2
	
	GS1 Expanded Data Redundant check = off
	
	GS1 Expanded Data Redundant check = 2
	

QR Code		
		QR Code enable
		QR Code disable
		Micro QR Code enable
		QR Mode1 1 Code enable
		QR Mode1 1 Code disable
		Micro QR Code disable
		QR Code Mirror enable
		QR Code Mirror disable
		QR/MQR polarity setting = Dark on Light
		QR/MQR polarity setting = Light on Dark
		QR/MQR polarity setting = either

DataMatrix		
		DataMatrix enable
		DataMatrix disable
		DataMatrix Mirror enable
		DataMatrix Mirror disable
		DataMatrix polarity setting = Dark on Light
		DataMatrix polarity setting = Light on Dark
		DataMatrix polarity setting = either

PDF417	
	PDF417 enable
	PDF417 disable
	Micro PDF417 enable
	Micro PDF417e disable
	PDF417 Data Redundant check = off
	PDF417 Data Redundant check = 1
	PDF417 Data Redundant check = 2
	PDF417 Data Redundant check = 3

Aztec		
		Aztec enable
		Aztec disable
		Aztec Mirror enable
		Aztec Mirror disable
		Aztec polarity setting = Dark on Light
		Aztec polarity setting = Light on Dark
		Aztec polarity setting = either

Maxi code		
		Maxi code enable
		Maxi code disable

POST code	
	PostNet Enable
	
	PLANET Enable
	
	Australia Post Enable
	
	Royal Post Enable
	

CODABLOC F	
	CODABLOC F Disable
	CODABLOC F CCA Enable
	CODABLOC F CCB Enable
	CODABLOC F CCC Enable
	CODABLOC F ALL Enable

Data Editing			
	Disable identifier code		
	Enable identifier code table as ZEBEX standard		
	Enable identifier code table as AIM standard. Refer to appendix A.		
	CODE 39 identifier code setting	M ]A0	
	ITF 2 of 5 identifier code setting	I ]I0	
	CHINESE POST CODE identifier code setting	H ]h0	
	UPC-E identifier code setting	E ]E0	
	UPC-A identifier code setting	A ]E0	
	EAN-13 identifier code setting	F ]E0	
	EAN-8 identifier code setting	FF ]E0	
	CODABAR identifier code setting	N ]F0	

		CODE 128 identifier code setting	K	]C0	
		CODE 93 identifier code setting	L	]G0	
		MSI identifier code setting	N	]M0	
		GS1 Databar identifier code setting	RS	]e	
		GS1 Databar limited identifier code setting	RL	]e	
		GS1 Databar expanded identifier code setting	RX	]e	
		Industrial 2 of 5 Identifier code setting	D	]S0	
		Code 11 Identifier code setting	O	]H0	
		Standard 2 of 5 Identifier code setting	S	]R0	
		Matrix 2of 5 (Japanese) Identifier code setting	G	]J0	
		Telepen identifier code setting	T	]T2	
		PDF417 identifier code setting	p	]L0	

	QR Code identifier code setting	q	]Q1	
	DataMatrix identifier code setting	d	]d1	
	AZTEC identifier code setting	a	]z0	
	Maxi code identifier code setting	m	]U0	
	Add code length as header enable(all barcode)			
	Add code length as header disable (all barcode)			
	Header (Preamble)			
	Trailer (Post amble)			
	Truncate header character			
	Truncate trailer character			
	Inter message delay 0 ms			
	Inter message delay 100 ms			

		Inter message delay 500 ms	
		Inter message delay 1000 ms	

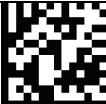
**Full ASCII Data Matrix Table**

<b>Data Matrix</b>	<b>ASCII</b>	<b>Hexa-code</b>
	Full ASCII ---NUL ~ZBN000000!	00
	Full ASCII ---SOH Function key----"Ins" ~ZBN000100!	01
	Full ASCII ---STX Function key----"Del" ~ZBN000200!	02
	Full ASCII ---ETX Function key---- "Home" ~ZBN000300!	03
	Full ASCII ---EOT Function key---- "End" ~ZB0000400!	04
	Full ASCII ---ENQ Function key----"Up arrow" ~ZBN000500!	05
	Full ASCII ---ACK Function key---- "Down arrow" ~ZBN000600!	06

	Full ASCII ---BEL Function key----“Left arrow” ~ZBN000700!	07
	Full ASCII ---BS Function key----“Backspace” ~ZBN000800!	08
	Full ASCII ---HT Function key----“TAB” ~ZBN000900!	09
	Full ASCII ---LF Function key----“Enter (alpha numeric)” ~ZBN000A00!	0A
	Full ASCII ---VT Function key----“right arrow” ~ZBN000B00!	0B
	Full ASCII ---FF Function key----“PgUp” ~ZBN000C00!	0C
	Full ASCII ---CR Function key----“Enetr(num.)” ~ZBN000D00!	0D
	Full ASCII ---SO Function key----“PgDn” ~ZBN001E00!	0E
	Full ASCII ---SI Function key----“Shift” ~ZBN000F00!	0F

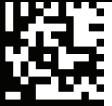
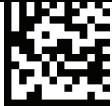
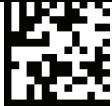
	Full ASCII ---DLE Function key----- “5(num)” ~ZB001000!	10
	Full ASCII ---DC1 Function key-----“F1” ~ZBN001100!	11
	Full ASCII ---DC2 Function key-----“F2” ~ZBN001200!	12
	Full ASCII ---DC3 Function key-----“F3” ~ZBN001300!	13
	Full ASCII ---DC4 Function key-----“F4” ~ZB001400!	14
	Full ASCII ---NAK Function key-----“F5” ~ZBN001500!	15
	Full ASCII ---SYN Function key-----“F6” ~ZBN001600!	16
	Full ASCII ---ETB Function key-----“F7” ~ZBN001700!	17
	Full ASCII ---CAN Function key-----“F8” ~ZB001800!	18
	Full ASCII ---EN Function key-----“F9” ~ZBN001900!	19
	Full ASCII ---SUB Function key----- “F10” ~ZBN001A00!	1A

		Full ASCII ---ESC Function key----- “F11” ~ZBN001B00!	1B
		Full ASCII ---FS Function key----- “F12” ~ZBN001C00!	1C
		Full ASCII ---GS Function key----- “ESC” ~ZBN001D00!	1D
		Full ASCII ---RS Function key----- “CTL(L)” ~ZBN001E00!	1E
		Full ASCII ---US Function key----- “ALT(L)” ~ZBN001F00!	1F
		Full ASCII ---SP ~ZBN002000!	20
		Full ASCII ---! ~ZBN002100!	21
		Full ASCII ---“ ~ZBN002200!	22
		Full ASCII ---# ~ZBN002300!	23
		Full ASCII ---\$ ~ZBN002400!	24
		Full ASCII ---% ~ZBN002500!	25

	Full ASCII ---& ~ZBN002600!	26
	Full ASCII ---' ~ZBN002700!	27
	Full ASCII --- ( ~ZBN002800!	28
	Full ASCII ---) ~ZBN002900!	29
	Full ASCII ---* ~ZBN002A00!	2A
	Full ASCII ---+ ~ZBN002B00!	2B
	Full ASCII ---, ~ZBN002C00!	2C
	Full ASCII ---- ~ZBN002D00!	2D
	Full ASCII ---. ~ZBN002E00!	2E
	Full ASCII ---/ ~ZBN002F00!	2F
	Full ASCII ---0 ~ZBN003000!	30
	Full ASCII ---1 ~ZBN003100!	31

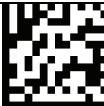
	Full ASCII ---2 ~ZBN003200!	32
	Full ASCII ---3 ~ZBN003300!	33
	Full ASCII ---4 ~ZBN003400!	34
	Full ASCII ---5 ~ZBN003500!	35
	Full ASCII ---6 ~ZBN003600!	36
	Full ASCII ---7 ~ZBN003700!	37
	Full ASCII ---8 ~ZBN003800!	38
	Full ASCII ---9 ~ZBN003900!	39
	Full ASCII ---: ~ZBN003A00!	3A
	Full ASCII ---; ~ZBN003B00!	3B
	Full ASCII ---< ~ZBN003C00!	3C
	Full ASCII ---= ~ZBN003D00!	3D

	Full ASCII ---> ~ZBN003E00!	3E
		Full ASCII ---? ~ZBN003F00!
	Full ASCII ---@ ~ZBN004000!	40
		Full ASCII ---A ~ZBN004100!
	Full ASCII ---B ~ZBN004200!	42
		Full ASCII ---C ~ZBN004300!
	Full ASCII ---D ~ZBN004400!	44
		Full ASCII ---E ~ZBN004500!
	Full ASCII ---F ~ZBN004600!	46
		Full ASCII ---G ~ZBN004700!
	Full ASCII ---H ~ZBN004800!	48
		Full ASCII ---I ~ZBN004900!

	Full ASCII ---J ~ZBN004A00!	4A
	Full ASCII ---K ~ZBN004B00!	4B
	Full ASCII ---L ~ZBN004C00!	4C
	Full ASCII ---M ~ZBN004D00!	4D
	Full ASCII ---N ~ZBN004E00!	4E
	Full ASCII ---O ~ZBN004F00!	4F
	Full ASCII ---P ~ZBN005000!	50
	Full ASCII ---Q ~ZBN005100!	51
	Full ASCII ---R ~ZBN005200!	52
	Full ASCII ---S ~ZBN005300!	53
	Full ASCII ---T ~ZBN005400!	54
	Full ASCII ---U ~ZBN005500!	55

	Full ASCII ---V ~ZBN005600!	56
	Full ASCII ---W ~ZBN005700!	57
	Full ASCII ---X ~ZBN005800!	58
	Full ASCII ---Y ~ZBN005900!	59
	Full ASCII ---Z ~ZBN005A00!	5A
	Full ASCII ---[ ~ZBN005B00!	5B
	Full ASCII ---\ ~ZBN005C00!	5C
	Full ASCII ---] ~ZBN005D00!	5D
	Full ASCII ---^ ~ZBN005E00!	5E
	Full ASCII ---_ ~ZBN005F00!	5F
	Full ASCII ---` ~ZBN006000!	60
	Full ASCII ---a ~ZBN006100!	61

	Full ASCII ---b ~ZBN006200!	62
	Full ASCII ---c ~ZBN006300!	63
	Full ASCII ---d ~ZBN006400!	64
	Full ASCII ---e ~ZBN006500!	65
	Full ASCII ---f ~ZB006600!	66
	Full ASCII ---g ~ZBN006700!	67
	Full ASCII ---h ~ZBN006800!	68
	Full ASCII ---i ~ZBN006900!	69
	Full ASCII ---j ~ZBN006A00!	6A
	Full ASCII ---k ~ZBN006B00!	6B
	Full ASCII ---l ~ZBN006C00!	6C
	Full ASCII ---m ~ZBN006D00!	6D

	Full ASCII ---n ~ZBN006E00!	6E
	Full ASCII ---o ~ZBN006F00!	6F
	Full ASCII ---p ~ZBN007000!	70
	Full ASCII ---q ~ZBN007100!	71
	Full ASCII ---r ~ZBN007200!	72
	Full ASCII ---s ~ZBN007300!	73
	Full ASCII ---t ~ZBN007400!	74
	Full ASCII ---u ~ZBN007500!	75
	Full ASCII ---v ~ZBN007600!	76
	Full ASCII ---w ~ZBN007700!	77
	Full ASCII ---x ~ZBN007800!	78
	Full ASCII ---y ~ZBN007900!	79

	Full ASCII ---z ~ZBN007A00!	7A
		Full ASCII ---{ ~ZBN007B00!
	Full ASCII ---  ~ZBN007C00!	7C
		Full ASCII ---} ~ZBN007D00!
	Full ASCII ---~ ~ZBN007E00!	7E
		Full ASCII ---DEL ~ZBN007F00!

## 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 from System Function Settings.
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

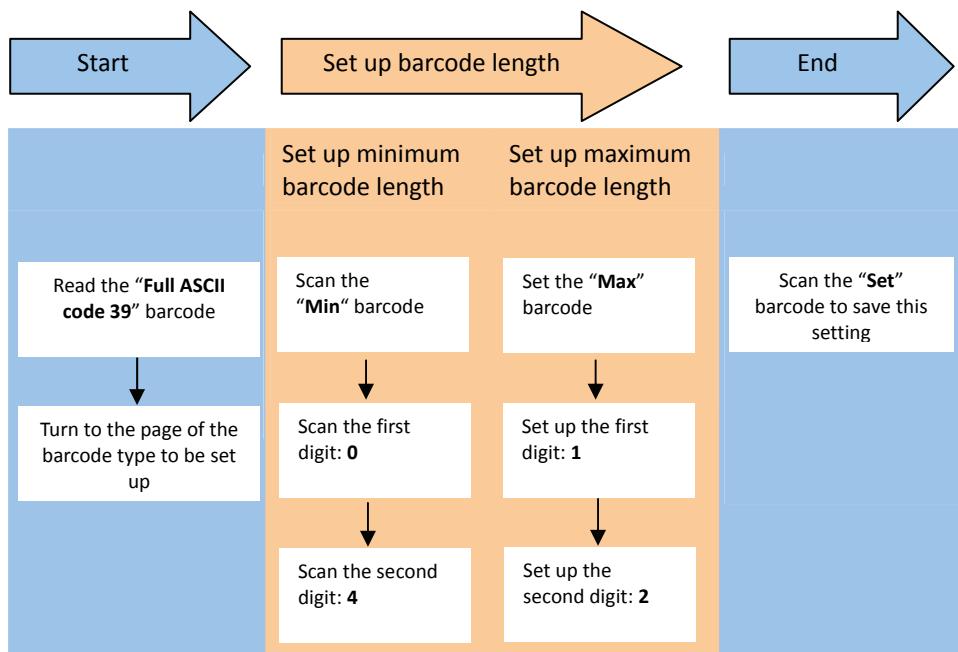
### Introduction

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 parameters 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.

### Example

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.