Table of Contents

1.Introduction

Thank you for purchasing mobile bar code scanner Z-3130BT for this time.
To use this product safely and in prime condition, please read "How to operate", and understand the content well.

1.1 Directions

This product is composed of precise electronic devices, so never break up the scanner. Please contact a distributor when this product breaks down by any chance.

1.2 Confirmation of packing

The content of the packing of this product is as follows. Please contact the distributor if any contents are damaged or missing.

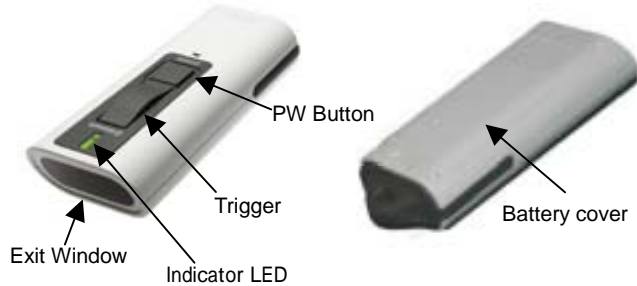|	
Mobile handy scanner Z-3130BT	1pc
User's Manual (this book)	1pc
AAA Alkaline Batteries	2pcs

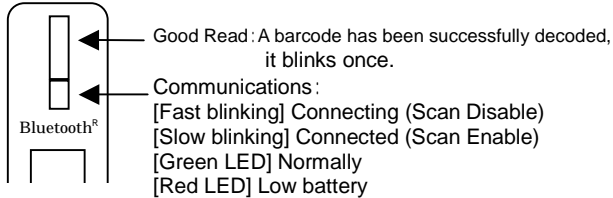## 1.3 Warranty

Warranty is one year from the purchase date.
However, the repair of damage due to the customer's handling mistake is charged even during the warranty term it.
Moreover, it cannot assume all the responsibilities about the loss and the damage caused as a result of the operation of this product.

1.4 Scanner outline

PW Button

Trigger

Battery cover

Exit Window

Indicator LED

1.5 Indicator LED

Good Read A barcode has been successfully decoded,
it blinks once.

Communications
[Fast blinking] Connecting (Scan Disable)
[Slow blinking] Connected (Scan Enable)
[Green LED] Normally
[Red LED] Low battery

Bluetooth^R

*Please change the batteries when the indicator LED blinks in Red.

1.6 How to change Batteries
(1) Open the battery cover.
(2) Insert new batteries.
   * Please don't make a mistake in the battery polarity.
(3) Put the battery cover.

2.How to operate

2.1 How to use buttons

2.1.1 Power button

[Power is off]

The power is turned on after keeps pushing the button for one second.

The link key is deleted, and the power supply is turned on after keeps pushing the button for 5 seconds.

[Power is on]

The power is turned off after keeps pushing the button for one second.

2.1.2 Trigger

[Power is off]

The power is turned on after push the button one time.

[Power is on]

Reading LED is lighted after push the button one time.

(Scan Enable)

2.2 How to connect

2.2.1 Connection of first time (Master mode)

(1) The equipment that wants to connect it is made Bluetooth connection waiting state.

(2) Keep pushing the power button of Z-3130BT for 5 seconds.

(3) The button is released when two indicator LED is lighted.

(4) When the input of the pin code is requested on the screen of the equipment, "1234" is input.

(5) The connection might be able to be completed.

2.2.2 Connection of second time

(1) The equipment that wants to connect it is made Bluetooth connection waiting state.

(2) Push the trigger of Z-3130BT one time.

(3) The connection might be able to be completed without pin code.

2.3 How to scan

Please scan from a place away from the printing surface of the bar code by 5-20cm. Good read buzzer sound and Good read LED blink once when reading succeeds, and reading LED is turned off.

Please change the reading angle and the distance when it is not possible to read the bar code.

.Communication protocol

3.1 Serial Communication protocol

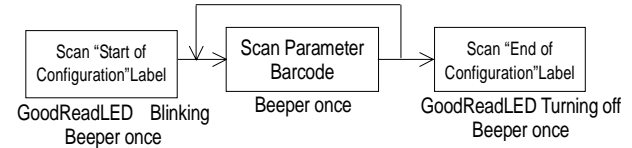|	
Baud Rate	115200bps
Data Bit	8
Start Bit	1
Stop Bit	1
Parity	Even
Flow Control	XON/XOFF
Handshaking Protocol	ACK/NAK (Default)

3.2 Output data format

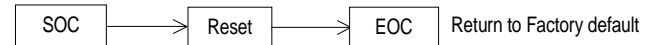|	
Transmission	ASCII JIS8
Message Terminator	STX/ETX (Default)

*** You can change handshaking protocol and message terminator.
Please refer P11.**

4.Parameter Setting

Please note that the setting change cannot be done while not connecting this scanner with PC or cellular phone.　(state that can be read)

4.1 Setting method

Scan "Start of Configuration"Label → Scan Parameter Barcode → Scan "End of Configuration"Label

GoodReadLED　Blinking
Beeper once

Beeper once

GoodReadLED Turning off
Beeper once

4.2 Initialization

SOC → Reset → EOC　Return to Factory default

Start of Configuration	Reset(return to)	End of Configuration
‖‖‖‖‖‖‖‖‖‖‖	‖‖‖‖‖‖‖‖‖	‖‖‖‖‖‖‖‖‖‖

4.3 System Function Setting

Start of Configuration	End of Configuration

Good Read Beeper

	Disable	
	Enable	

Identifier Code

The following character is added ahead of the bar code data.

Code	Char	Code	Char
JAN-13/EAN-13	0	Code93	6
JAN-8/EAN-8	1	Code128	7
UPC-A	2	Interleaved2of5	9
UPC-E	3	ITF-6	A
CODABAR	4	ITF-14	B
Code39	5	ITF-16	C

	Disable	
	Enable	

Start of Configuration	End of Configuration

Power saving time-out

This is time setting of auto power off.

	Disable	
	1minute	
	2 minutes	
	5 minutes	
	15 minutes	

Start of Configuration	End of Configuration
‖‖‖‖‖‖‖‖‖‖	‖‖‖‖‖‖‖‖

Handshaking Protocol

‖‖‖‖‖‖‖‖	None handshaking with CR
‖‖‖‖‖‖‖‖	None handshaking with CR/LF
‖‖‖‖‖‖‖‖	None handshaking with STX/ETX
‖‖‖‖‖‖‖‖	ACK/NAK with CR
‖‖‖‖‖‖‖‖	ACK/NAK with CR/LF
‖‖‖‖‖‖‖‖	ACK/NAK with STX/ETX

4.4 The Symbologies Setting

4.4.1 JAN/EAN/UPC Parameter Setting

Start of Configuration	End of Configuration
‖‖‖‖‖‖‖‖‖‖	‖‖‖‖‖‖‖‖

Decode

‖‖‖‖‖‖‖‖	Disable	
‖‖‖‖‖‖‖‖	Enable	

UPC-A Format

‖‖‖‖‖‖‖‖	Force UPC-A to EAN-13 Disable	
‖‖‖‖‖‖‖‖	Force UPC-A to EAN-13 Enable	

UPC-E Format

‖‖‖‖‖‖‖‖	Force UPC-E to EAN-8 Disable	
‖‖‖‖‖‖‖‖	Force UPC-E to EAN-8 Enable	
‖‖‖‖‖‖‖‖	Force UPC-E to UPC-A Enable	

JAN add-on

‖‖‖‖‖‖‖‖	JAN+add-on Disable	
‖‖‖‖‖‖‖‖	Only JAN+add-on Enable	
‖‖‖‖‖‖‖‖	JAN and JAN+add-on Enable *	

* There is possibility that scanner will output only JAN code without add-on code when it was set on this setting.

4.4.2 CODABAR Parameter Setting

Start of Configuration	End of Configuration

Decode

|||||||||||||	Disable	
|||||||||||||	Enable	

Check digit(7 check)

|||||||||||||	No check character	
|||||||||||||	Calculate but without transmit	
|||||||||||||	Calculate and transmit	

START/STOP Character

|||||||||||||	No transmission	
|||||||||||||	Transmission (Small letter)	
|||||||||||||	Transmission (Capital letter)	

4.4.3 ITF(Interleaved2of5) Parameter Setting

Start of Configuration	End of Configuration

Decode

|||||||||||||	Disable	
|||||||||||||	Enable as Interleaved2of5	
|||||||||||||	Enable as ITF-16,14,6	

Check digit(Modulo 10/3Weight)

|||||||||||||	No check character	
|||||||||||||	Calculate but without transmit	
|||||||||||||	Calculate and transmit	

4.4.4 Code39 Parameter Setting

Start of Configuration	End of Configuration
‖‖‖‖‖‖‖‖	‖‖‖‖‖‖

Decode

| ‖‖‖‖‖‖ | Disable | |
| ‖‖‖‖‖‖ | Enable | |

Check digit(Modulo 43)

‖‖‖‖‖‖	No check character	
‖‖‖‖‖‖	Calculate but without transmit	
‖‖‖‖‖‖	Calculate and transmit	

START/STOP Character

| ‖‖‖‖‖‖ | No transmission | |
| ‖‖‖‖‖‖ | Transmission | |

4.4.5 Code93 Parameter Setting

Start of Configuration	End of Configuration
‖‖‖‖‖‖‖‖	‖‖‖‖‖‖

Decode

| ‖‖‖‖‖‖ | Disable | |
| ‖‖‖‖‖‖ | Enable | |

4.4.6 Code128 Parameter Setting

Start of Configuration	End of Configuration
‖‖‖‖‖‖‖‖	‖‖‖‖‖‖

Decode

| ‖‖‖‖‖‖ | Disable | |
| ‖‖‖‖‖‖ | Enable | |

5.Configuration for Administrator

Only system administrator should operate it because these settings are detailed settings of the Bluetooth communication.

5.1 How to shift to Configuration Mode

1.One dry battery is detached.

2.The battery is set while pushing the trigger button.

3.A short beeper rings and it shifts to the configuration mode.

4.Set the Bluetooth configurations to read setting bar code since next page.
* Please read "End of Configuration" when you complete the setting.

5.2 Bluetooth Communication Setting

Master/Slave

	Master	
	Slave(Discoverable & Connectable)	
	Slave(Connectable)	

Security

	Certification : Disable	
	Certification : Enable Encryption : Disable	
	Certification : Enable Encryption : Enable	

PIN Code
Please make a barcode that adds "BPCS" to the head of PIN Code which you want to set, and read it. (1-16 Digit)
Default : 1234

(For Example)
If you want to set the PIN Code to "9876",please make "BPCS9876" barcod.

B P C S 9 8 7 6

End of Configuration

Device Name
Please make a barcode that adds "BDLS" to the head of Device Name which you want to set, and read it. (1-16 Digit)
Default : Z-3130BT

(For Example)
If you want to set the Device Name to
 "ABC1234567890DEF",please make "BDLSABC1234567890DEF" barcode.

||||||||||||||||||||||||||||||||||||||||
B D L S A B C 1 2 3 4 5 6 7 8 9 0 D E F

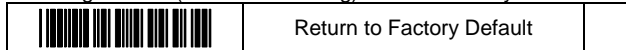Remote Bluetooth Address
Please make a barcode that adds "BDRS" to the head of Bluetooth Address which you want to connect, and read it. (12 Digits)

(For Example)
If you want to have them connect with the equipment which has "000EA10419B5" Bluetooth Address, please make "BDRS000EA10419B5" barcode.

||||||||||||||||||||||||||||||||||||||
B D R S 0 0 0 E A 1 0 4 1 9 B 5

System Reset
All configurations (include BT setting) return to factory default.

| |||||||||||||||||| | Return to Factory Default | |

End of Configuration

5.3 Parameter confirmation (BT communication)

Start of Configuration	End of Configuration

||||||||||||||||	Bluetooth Role (BRO…)
||||||||||||||||	Bluetooth Security (BSQ…)
||||||||||||||||	PIN Code (BPC…)
||||||||||||||||	Bluetooth Local Address (BAL…)
||||||||||||||||	Bluetooth Local Device Name (BDL…)
||||||||||||||||	Bluetooth Remote Address (BAR…)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2)This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications (including the antennas) made to this device that are not
expressly approved by the manufacturer may void the user's authority to operate the equipment.

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter."