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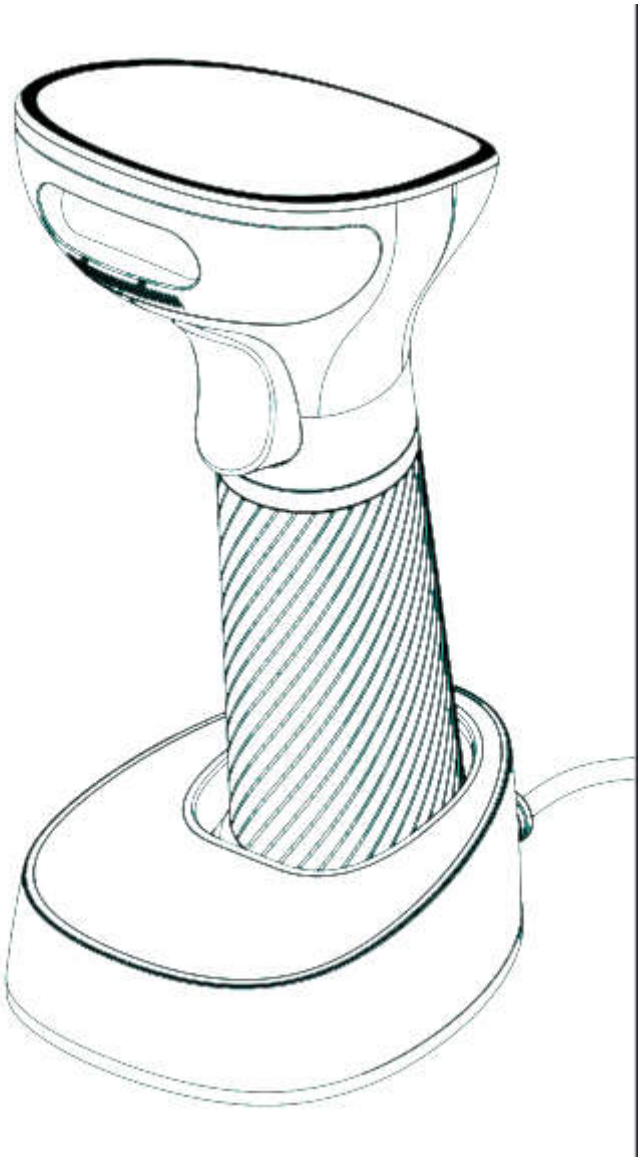
NEXA ZED-2651/2951
2.4G&Bluetooth Scanner
User Manual

V4.3



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Version No. Description

Remarks: Please refer to the corresponding manual version for the detailed version function.

* Manual Version V4.3: Support software version above 01.44
Function Upgrade: function key add Ctrl, Alt, Shift & GUI.

* Manual Version V4.2: Support software version above 01.40
Function Upgrade: Japanese language setting.

* Manual Version V4.0: Support software version above 01.40
(Requires hardware circuit support, the old version does not support)
Function Upgrade: 2.4G extended cache setting.

* Manual Version V3.9: Support software version above 01.32
Function Upgrade:
1. Add enable&disable long press button to enter Bluetooth HID pairing function setting.
2. Add enable&disable long press button 16S to enter 2.4G pairing function setting.

* Manual Version V3.8: Support software version above 01.25
Function Upgrade:
1. Add “USB Priority Output” and “Simultaneous Output” mode.
2. Fixed the problem that Bluetooth switch is successful, but still alarm.
3. Add “GS-hex-0x1D conversion” function.
4. Add function code to get Bluetooth name and address.
5. Buzzer frequency setting.
6. Amend UTF8 Chinese output.

1. Basic Function

Factory Default

Software Version

2. Indicator Description

2.1 LED Details

Green light --> charging

(1) Steady flash means charging.
(2) Will goes out when the battery is fully charged.

Blue light --> Status

(1) One quick flash for one successful scanning.
(2) Flash will goes out if USB/2.4G/ Bluetooth HID are not connected.
(3) Flash always on when USB or 2.4G or Bluetooth is connected.
(4) Quick&continuous flash: entering 2.4G&Bluetooth HID pairing.

***Remarks:**
Flash slowly when entering Bluetooth SPP/BLE pairing.

2.2 Buzzer Details

A long beep--> Status:

(1) Power on;
(2) Bluetooth data transmission failed;

A short beep-->Status:

(1) Bar-code read &upload successfully;
(2) USB connect successfully;
(3) 2.4G/Bluetooth connected or paired;

High&low short beep-->Status:

(1) Setting code obtained successfully;
(2) Data stored successfully;
(3) Data upload completely;
(4) Enter the off state;

Three short beeps--> Status:

(1) USB/2.4G/Bluetooth is disconnected;
(2) Data upload unsuccessfully or the storage Flash is full;
(3) Setting code failed;

Three short tones with high and low rhythm --> Status:

Insufficient power, ready to enter off state;

2.3 Voice Setting

Sound Volume

Off

High(*)

Medium

Low

Sound Type

MCU(*)

Scan Head

2.4 Voice Frequency

2048HZ

2700HZ

2.5 Battery Function

Battery Indicator

3. Wireless Transfer Description

3.1 Output Method

USB Priority Output(*)

Simultaneous Output
(USB, 2.4G& Bluetooth)

“USB Priority Output(*)” :
When using USB cable, data transfer wire USB cable only.

“Simultaneous Output”:
USB and 2.4G or Bluetooth output simultaneously. (Determined by communication mode).
If output is unsuccessful, will alarm.

3.2 Data Transfer Mode

Normal Mode(*)

Inventory Mode

Automatic Storage Mode

"**Normal Mode**":
Data will be uploaded immediately, if data cannot save successfully, scanner will alarm.

"**Automatic Storage Mode**":
Data will be saved automatically when the distance is exceeded.
Scan the "Upload All Data" bar-code to upload the data when the data need to check.

"**Inventory Mode**":
Data will be saved automatically.
Scan the "Upload Statistical Data" bar-code when the statistical data need to be viewed or uploaded.

***Remarks:**
Scan the "Upload All Data" to upload the data, then scan the "Clear All Data " to clear the data first, otherwise the bar code read last time will be output again.

Clear All Data

Upload Statistical Data
(Amount of data)

Upload All Data

***Remarks**
"Clear All Data" is only effected under inventory mode.

3.3 Communication Mode

Receiver Mode(*)

Bluetooth HID Mode

Bluetooth BLE Mode

Bluetooth SPP Mode

◆When switched to HID mode. The Bluetooth matched previously will be connected automatically.

◆“Bluetooth BLE Transparent Transmission Mode”
Bluetooth devices (i.e. mobile phones/iPad and other Bluetooth devices) need to download or develop low-power Bluetooth BLE Transparent Transmission Software.

◆“Bluetooth SPP Transparent Transmission Mode”
Bluetooth devices (i.e. mobile phones/iPad) need to download or develop Classic Bluetooth SPP Transparent Transmission Software.

***Remarks**
When there is a problem with Bluetooth communication, will alarm and indicate that the Bluetooth access is failed.

3.4 USB Interface Type

USB-HID(*)

USB-COM

3.5 Type of USB-HID Data

Keyboard function key (*)

Send Chinese Characters

Send ASCII

4. Sleep Time Setting

No Sleep

Enter Sleep

10S

30S

1min(*)

2min

5min

10min

30min

5. Conversion

5.1 GS Characters Conversion

None(*)

GS Converts To <GS>

GS Converts To |

GS converts to]

GS Converts To ^]

5.2 Letter Case Conversion

Normal Letter Case(*)

All Uppercase

All Lowercase

Case Inversion

6. Language Setting

USA(*)

German

France

Italy

Canadian

Spain

Brazil

Sweden

Portugal

Belgium

Turkey-F

Turkey-Q

Italian14

Netherlands

Poland

Finland

Latin America

Serbia

Hungary

Denmark

Norway

Japan

7. 2.4G Setting

Receiver Mode(*)

Scan this code, scanner will enter 2.4G mode automatically and connect to the receiver which is matched last time by default.

7.1 Pairing

2.4G Receiver Pairing

Two ways to enter "2.4G Receiver Pairing" setting
(1) Scan the "Receiver Pairing" bar-code directly.
(2) Pressing the button about 16 seconds.
There will be 2 sounds respectively, first at the 8th seconds, the second at the 16th seconds, then release the button.

2. Exit 2.4G Pairing:
(1) When the Bluetooth is matched, it will prompt once and ending pairing.
(2) Scan the "2.4G Receiver Pairing" to enter, then double-click the button to exit and it will prompt once.
(3) If the receiver is not connected within 1 minute, it will exit automatically and with 3 beeps.

***Remarks**
When exiting the pairing, if the receiver is not connected, it will connect to the receiver which is matched last time automatically by default.

7.2 Extended Cache Setting

Disable (*)

Enable

***Remarks:**
Disable:
New data need to wait after all data is upload completely.

Enable:
New data will be saved in the cache and send to devices automatically, so no need to wait all data transfer completely, this is to support continuous scanning.

8. Bluetooth Setting

8.1 Bluetooth HID Mode

Bluetooth HID Mode

***Remarks:**

Scan this bar-code above to enter the"Bluetooth HID Mode"and it will connect the Bluetooth which is matched last time automatically by default.

If not in broadcast state and need to pair the Bluetooth, please check below for more details.

8.2 Bluetooth HID Pairing

Bluetooth HID Pairing

1. 2 ways to enter "Bluetooth HID Pairing" mode:

(1) Scan the "Bluetooth HID Pairing" code, search for "Bluetooth" through the Bluetooth device.

(2) Pressing the button and hold for about 8 seconds, there will be a sound, then release the button.

2. Exit "Bluetooth HID Pairing" mode:

(1) When Bluetooth is matched, it will prompt once and ending pairing.

(2) After scan the "Bluetooth HID Pairing" bar-code, then Double-click the button, it will prompt once.

(3) If the Bluetooth is not matched within 1 minute, it will exit automatically and with 3 beeps.

***Remarks:**

When exiting pairing, if the new device is not connected, will connect to the device which is matched last time automatically by default.

8.3 Long press 8s to enter Bluetooth HID pairing setting

Enable(*)

Disable

8.4 Show & Hide the HID Virtual Keyboard in IOS

Show & Hide the HID Virtual Keyboard in IOS

***Remarks:**

Quick press 3 times to enable show or hide IOS virtual keyboard function.

8.5 Bluetooth HID Transfer Rate Setting

Fast

Medium(*)

Low

Ultra-low speed

***Remarks:**

◆Fast speed uploading is recommended in IOS.

◆Set the corresponding speed according to the response speed of the phone under Android system.

◆When the uploaded data is messed up & lost, try to turn down the speed.

8.6 Bluetooth HID RSSI Setting

Bluetooth SPP Mode

Scan the “Bluetooth SPP Mode” bar-code to enter, and it can be matched directly in the broadcast state by default.

8.7 Bluetooth BLE Mode

Bluetooth BLE Mode

Scan the “**Bluetooth BLE Mode**” bar-code, it will automatically enter into the Bluetooth BLE mode, and automatically connect the Bluetooth that was matched last time by default. If it is not connected, it will automatically be in the broadcast state and can be matched directly.

8.8 Bluetooth Name Setting

8.8.1 Bluetooth Name Bar-code Definition

Bluetooth Name Bar-code Definition

1. Fixed front character“^&C0C&^”,‘XXX’ is the name needed to be set.
2. The Bluetooth name can be set to 24 bytes at most.

***Remarks:**
The name of Bluetooth HID/SPP/BLE will all changed after modifying.

8.8.2 Bluetooth Name ASCII Definition

Bluetooth Name ASCII Definition

Steps:
1. Scan "Bluetooth Name ASCII Definition" bar-code.
2. Scan the contents to be added in sequence, please refer to the ASCII code table.
3. Scan "Save Data and Exit" bar-code.

***Remarks:**
The Bluetooth name can be set to 24 bytes at most.

8.8.3 Bluetooth Name Default

Bluetooth Name Default

***Remarks:**
Scan the “Bluetooth Name Default” bar-code Or the “Default Setting” bar-code, custom Bluetooth names will be cleared.

8.9 Bluetooth Name&Address Setting

8.9.1 Get Bluetooth Name

Get Bluetooth Name
This code only worked under the Bluetooth HID/SPP/BLE mode.

8.9.2 Get Bluetooth Address

Get Bluetooth Address

This code only worked under the Bluetooth HID/SPP/BLE mode.
If the Bluetooth address cannot be displayed, try use serial port to check.

9. Software Update

Update Transmitter Program

Update the Receiver Program

Update Bluetooth Program

10. Hide Character Function Settings

10.1 Hide the First Character

Hide the First Character
Shortcut Settings for Hiding the digit from the beginning
Note: How many digits are hidden from the beginning by default
The format is as follows: ^&600&^ to ^&6FF&^,00~FF are hidden digits

 ^&601&^ Hide the first 1 digit		 ^&602&^ Hide the first 2 digit
	 ^&603&^ Hide the first 3 digit	
 ^&604&^ Hide the first 4 digit		 ^&605&^ Hide the first 5 digit
	 ^&606&^ Hide the first 6 digit	
 ^&607&^ Hide the first 7 digit		 ^&608&^ Hide the first 8 digit
	 ^&609&^ Hide the first 9 digit	
 ^&60A&^ Hide the first 10 digit		 ^&60B&^ Hide the first 11 digit
	 ^&60C&^ Hide the first 12 digit	

 ^&60D&^ Hide the first 13 digit		 ^&60E&^ Hide the first 14 digit
	 ^&60F&^ Hide the first 15 digit	

10.2 Hide the last Character

Hide the last Character **Note: Shortcut Settings for Hiding the digit from the last** The format is as follows: ^&700&^ to ^&7FF&^,00~FF are hidden digits		
 ^&701&^ Hide the last 1 digit		 ^&702&^ Hide the last 2 digit
	 ^&703&^ Hide the last 3 digit	
 ^&704&^ Hide the last 4 digit		 ^&705&^ Hide the last 5 digit
	 ^&706&^ Hide the last 6 digit	
 ^&707&^ Hide the last 7 digit		 ^&708&^ Hide the last 8 digit
	 ^&709&^ Hide the last 9 digit	
 ^&70A&^ Hide the last 10 digit		 ^&70B&^ Hide the last 11 digit
	 ^&70C&^ Hide the last 12 digit	

 ^&70D&^ Hide the last 13 digit		 ^&70E&^ Hide the last 14 digit
	 ^&70F&^ Hide the last 15 digit	

11. Data Code Table

Data Code Table		
	0	
1		2
	3	
4		5
	6	
7		8
	9	

12. ASCII Code Table

ASCII Code Table		
	 &400& SOH	
 &401& SOH(start of headline)	 &402& STX (start of text)	 &403& ETX
 &404& EOT	 &405& ENQ	 &406& ACK
 &407& BEL	 &408& BS	 &409& HT
 &40A& LF	 &40B& VT	 &40C& FF
 &40D& CR	 &40E& SO	 &40F& SI
 &410& DLE	 &411& DC1	 &412& DC2
 &413& DC3	 &414& DC4	 &415& NAK
 &416& SYN	 &417& ETB	 &418& CAN
 &419& EM	 &41A& SUB	 &41B& ESC

 ^&41C&^ FS	 ^&41D&^ GS	 ^&41E&^ RS
 ^&41F&^ US	 ^&420&^ SP	 ^&421&^ !
 ^&422&^ “	 ^&423&^ #	 ^&424&^ $
 ^&425&^ %	 ^&426&^ &	 ^&427&^ .
 ^&428&^ (	 ^&429&^)	 ^&42A&^ *
 ^&42B&^ +	 ^&42C&^ ,	 ^&42D&^ -
 ^&42E&^ .	 ^&42F&^ /	 ^&430&^ 0
 ^&431&^ 1	 ^&432&^ 2	 ^&433&^ 3
 ^&434&^ 4	 ^&435&^ 5	 ^&436&^ 6
 ^&437&^ 7	 ^&438&^ 8	 ^&439&^ 9
 ^&43A&^ :	 ^&43B&^ ;	 ^&43C&^ <
 ^&43D&^ =	 ^&43E&^ >	 ^&43F&^ ?

 &440& @	 &441& A	 &442& B
 &443& C	 &444& D	 &445& E
 &446& F	 &447& G	 &448& H
 &449& I	 &44A& J	 &44B& K
 &44C& L	 &44D& M	 &44E& N
 &44F& O	 &450& P	 &451& Q
 &452& R	 &453& S	 &454& T
 &455& U	 &456& V	 &457& W
 &458& X	 &459& Y	 &45A& Z
 &45B& [	 &45C& \	 &45D&]
 &45E& ^	 &45F& -	 &460& ,
 &461& a	 &462& b	 &463& c
 &464& d	 &465& e	 &466& f

^&467&^ g	^&468&^ h	^&469&^ i
^&46A&^ j	^&46B&^ k	^&46C&^ l
^&46D&^ m	^&46E&^ n	^&46F&^ o
^&470&^ p	^&471&^ q	^&472&^ r
^&473&^ s	^&474&^ t	^&475&^ u
^&476&^ v	^&477&^ w	^&478&^ x
^&479&^ y	^&47A&^ z	^&47B&^ [
^&47C&^ |	^&47D&^]	^&47E&^ ~
^&47F&^ DEL	^&480&^ Caps Lock	^&481&^ function key F1
^&482&^ function key F2	^&483&^ function key F3	^&484&^ function key F4
^&485&^ function key F5	^&486&^ function key F6	^&487&^ function key F7
^&488&^ function key F8	^&489&^ function key F9	^&48A&^ function key F10

 ^&48B&^ function key F11	 ^&48C&^ function key F12	 ^&48D&^ Print Screen
 ^&48E&^ Scroll Lock	 ^&48F&^ Pause	 ^&490&^ Insert
 ^&491&^ Home	 ^&492&^ Page Up	 ^&493&^ Delete
 ^&494&^ Page Down	 ^&495&^ End	 ^&496&^ Right Arrow
 ^&497&^ Left Arrow	 ^&498&^ Down Arrow	 ^&499&^ Up Arrow
 ^&49A&^ Num Lock(keypad)	 ^&49B&^ /(keypad)	 ^&49C&^ *(keypad)
 ^&49D&^ -(keypad)	 ^&49E&^ +(keypad)	 ^&49F&^ Enter(keypad)
 ^&4A0&^ 1(keypad)	 ^&4A1&^ 2(keypad)	 ^&4A2&^ 3(keypad)
 ^&4A3&^ 4(keypad)	 ^&4A4&^ 5(keypad)	 ^&4A5&^ 6(keypad)
 ^&4A6&^ 7(keypad)	 ^&4A7&^ 8(keypad)	 ^&4A8&^ 9(keypad)
 ^&4A9&^ 0(keypad)	 ^&4AA&^ .(keypad)	AB~CF 保留 待用

Add Ctr/Shift/Alt/GUI function key

***Remarks**

During setup, need to press and release the button accordingly.
If keep pressing the button but no release, data will not be uploaded and may cause the computer lock screen or other hot key problems.

L-Ctrl Press	L-Shift Press	L-Alt Press
L-GUI Press	R-Ctrl Press	R-Shift Press
R-Alt Press	R-GUI Press	
L-Ctrl Release	L-Shift Release	L-Alt Release
L-GUI Release	R-Ctrl Release	R-Shift Release
R-Alt Release	R-GUI Release	E0~FF

13. Long Press Button Description

◆**"Communication Mode" switches to the “Bluetooth SPP” mode**
Pressing the button and hold for about 8 seconds, then release after a sound is heard.

◆**"Communication Mode" switch to “Bluetooth BLE”mode**
Pressing the button and hold for about 16 seconds, then release after a sound is heard.

◆**“MCU and Bluetooth update” program**
Pressing the button and hold for about 90 seconds, then release after a sound is heard, press the button 3 times quickly within 10s.
(If the button is not pressed within 10 seconds, the system will automatically enter normal use mode.)

***Remarks**
The third function is turned off by default.