

# Wireless Barcode Scanner Manual Guide

V51.01



In order to correctly use the barcode scanner, please carefully read the instruction and keep properly to look up.

If you have any question about the scanner, please contact us at **nadamoo@126.com**

### **Package Include:**

1 X Blue USB Receiver (For receiving the barcode data )

1 X Black USB Cable (Only for charging )

1 X Scanner

1 X Code Card

1 X Manual

### **Charging**

Please ensure that the scanner has enough power.

When the power is less than 20%, the scanner cannot start because it enter into low voltage cutoff mode to protect the battery.

At this condition, please stop scanning and charge the scanner.

Correctly insert one end of USB cable into the scanner, and insert another end to computer USB interface or 5V DC USB interface power

**Note:** please use computer USB interface or special 5V DC power supply to charge, the informal power will cause permanent damage to scanner and battery),

## Charging tips

Micro-current charging:	Within 1-10 minutes of this phase, the indicator light may have no reaction, after about 10 mins, the red light flashes
Normal charging	Blue light is on with the red light flashing
Full charged	Blue light is on and the red light goes out.

## **Quick Guide:**

(The scanner has been paired with the receiver, and set up already)

1. Plug the blue USB receiver into your computer,
2. Open notepad or Microsoft Word, put the cursor in the field
3. Scan any product barcode to see if the bar code is uploaded successfully to the location of cursor

If the barcode can be uploaded, It means the scanner works

If no bar code is transmitted to your computer, please unplug the receiver and plug it again and then follow the steps to reset the scanner.

## Reset steps

First step, scan the code below to restore the scanner



Restore defaults

Second step.scan the code below to pair the scanner with the receiver



Match the receiver

Third step.scan the code below to set the scanner to instantly upload the barcode



Instant upload Mode

fourth step,scan the code below to set the scanner as USB HID,the scanner will work like keyboard



USB\_HID

P.S if you want to set the scanner to serial port mode (USB Virtual com) , please contact us for tutorial

## **Customer Q&A**

1. *If i scan a product barcode, will it include the name of the product in the file automatically?*

The computer sees the scanner like a keyboard.The scanner does not interpret what the barcode is, it just "types" out a string of alphabet numeric characters that the barcode represents.

it's up to the database software you are using to interpret what that string of characters means.

Once you acquire the barcodes, you have to correlate them to something more meaningful by either purchasing a software service that will interpret the barcode and relate it to a product, or you can use your own internal inventory system to assign the barcodes to specific products.

After that,when you enter the barcode into the software by the scanner,your software will look up the barcode and then output the related information of your product.

## *2. Why can the scanner not read the barcodes?*

There are some reason for that

Maybe the scanner failed to match the receiver .

Maybe the scanner was set to storage mode or USB virtual com.

Please follow the reset steps on page 2-3 to set up the scanner

The other possible reason is that the setting is off by default, for some barcode types are not commonly used. You need to activate a specific barcode type to get it to work . Please feel free to contact our Customer Service Team for further assistance.

*3. Why does scanner not read the barcode exactly. When I use the scanner to read a barcode of an item, I get a different result from the barcode itself. For example,We use Code 39. it puts an \* at the beginning and a \* at the end. How do we program the scanner to read whole*

*barcode? The barcode the computer received is 123456789. The barcode we need is \*123456789\*.*

The scanner was set to read the check digit of each code and not read the extra start and stop characters of each barcode by default.

Please send us a clear picture of the barcode and the result you get, our customer service will help you to solve the problem.

## **Buzzer and LED tips**

### **1\Battery level indication**

- (1) Turning the scanner on,when the buzzer rang "DI DI DI" and the blue light is on with no red light flashing , it indicates that the battery is sufficient
- (2) Turning the scanner on,when the buzzer rang "DI DI DI" and the blue light is on with the red light flashing, it indicates that the power is less than 30%,Please charge the scanner as soon as possible
- (3)When the buzzer has no sound, and the red light flashes three times.it indicates that the power is less than 20%.The scanner cannot be powered as it enter into low voltage cutoff mode. please stop scanning and charge the scanner.

### **2\ Tips during scanning**

In Instant Upload Mode

- (1)The blue light flashes and the buzzer rang "DI" when the barcode is uploaded successfully
- (2)The red light flashes and the buzzer rang a slow "DI---en" when the barcode can not be uploaded

In Storage Mode

- (1) The blue light flashes and the buzzer rang a fast "DI-en" when the barcode is saved successfully in the built-in memory of the scanner
- (2)The red light flashes and the buzzer rang a slow "DI---en" when the barcode can not be saved in the built-in memory of the scanner.This indicates that there was not enough memory to save the bar code. Please upload the saved barcode by scanning the code "Upload Data" and then clear the saved barcode by scanning code "zero clearing".

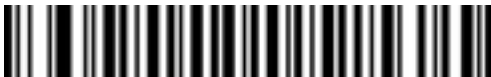
### **3\ Tips during matching**

Plug the Blue USB receiver into your computer ,scan the code "match the receiver" to match the scanner with the receiver

- (1)if the match succeeds, the buzzer rang "DI DA""DI DI DI"
- (2)if the match faileds, the buzzer rang a "DI---en"

## **Remaining capacity of battery tips**

To show up the Battery left,scan the following barcode



Battery Reserve



# Specification

Frequency: 433MHZ		Charging supply: 5V-500mA	
Distance: Indoor 100m		Working current: 15-40mA	
Outdoor 400m		Standby current : 18uA-5mA-	
storage: 100000 barcode		Working time: 7 to 10 days	
Scanner parameters:			
Scanning type : bi-directional		Light source: 650nm LD	
CPU: ARM 32-bit Cortex		Trigger Mode: Button,Continuous	
Printing Contract : >25%		Indication: Buzzer & LED	
Depth of Field	3.3mil	2mm-100m	Resolution : 3.3mil
	10mil	2mm-350m	Scanning width : 30cm
	15.6mil	5mm-600m	Decoding speed: 260scans/sec
	35mil	10mm-1000	Bit error rate :1/20million
Scanning angle: rotor angle $\pm 30^\circ$ , inclination $\pm 45^\circ$ , declination $\pm 60^\circ$			
Anti inference: industrial lighting or sun will not make any difference			
Decoding Capability: UPC/EAN,with complementary UPC/EAN,Code128, Code39,Code 39Full ASCII,Coda bar,industrial /Interleaved 2 of 5 Code93,MSI,Code11,ISBN,ISSN,China post,etc (optional)GS1 Databar,Code32			
Button life : 8000,000 times		laser life: 12000 hours	
Drop test : 2.0m fall to concrete			
Certificate : CE,FCC,RoHS,IP54			

# General Settings

## 1 .Restore factory setting

To Restore factory settings,scan the following barcode



Restore defaults (Restore factory settings)

## 2. Two Match mode

- ▶ One to one —one scanner to one receiver

Matching Operation

- (1) plug the the USB receiver to computer
- (2) scan the following bar code to Match the receiver



Match the receiver

- ▶ More to one —several scanner to one receiver

Matching Operation

if you have 3 scanner: scanner #1, scanner #2, scanner #3

- (1)plug one usb receiver to your computer,(NOTE:Please do not replace the receiver in the following procedure)
  - (2)match for the scanner #1:scan the above match the receiver" code
  - (3)match for the scanner #2:scan the above match the receiver" code
  - (4)match for the scanner #3:scan the above match the receiver" code
- After that ,3 scanner can transmit the data to one receiver.

### 3. Two upload mode

► Instant upload mode—Instantly upload data to the document you have opened.

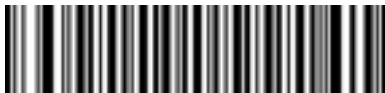
\*\*To set the scanner to instant upload mode, scan the following barcode



Instant upload Mode

► Storage mode—Scan and store barcode inside the scanner, and uploaded the data to your device when you need it .

\*\*To set the scanner to Storage mode ,scan the following barcode



Storage Mode

\*\*Scan the following barcode to upload data



Upload Data

\*\*Scan the following barcode to show total number of stored barcode



Show total storage

**\*\*Scan the following barcode to clear stored bar code**



Zero clearing

**\*\*Scan one of the following barcode to select data upload speed**



Upload speed-fast(default)



Upload speed-slow

## **4. Two scanning mode**

▶ **Key trigger mode:** press the button to read barcode .The laser appeared and then went out

**\*\*To set the scanner to Key trigger mode,scan the following barcode**



Keys Trigger (default)

▶ **Continuous scanning mode :** read barcode without pressing the button. The laser is always on.

**\*\*To set the scanner to Continuous scanning,scan the following barcode**



Continuous scanning Mode

## 5.Duplicate read settings

Scan one of the following barcode to select barcode detection mode



Duplicate barcode detection-ON (Unable to upload duplicate barcode)



Duplicate barcode detection-OFF (Able to upload duplicate barcode)

## 5.Sleep time settings

\*\*Scan one of the following barcode to set the time interval,when it's idle exceeding the time interval you set,the scanner will enter into Standby mode.



10s Automatic Standby



30s Automatic Standby



15mins Automatic Standby



30mins Automatic Standby

\*\*Scan one of the following barcode to set the time interval,when it's idle exceeding the time interval you set,the scanner will switch off.



10s Automatic Switch off



30s Automatic Switch off



5mins Automatic Switch off



15mins Automatic Switch off

## 7. Buzzer Setup

Scan one of the following barcode to select the voice mode



Low volume



Medium volume



High volume



Closed voice

## 8.Interface setup

Scanning the corresponding bar code to choose the interface.



USB\_HID (default)



USB virtual COM

## 9.Terminator Editing



Add Carriage Return



Disable suffix



Add TAB

To add Carriage Return, please read code “ Add Carriage Return”

To disable Carriage Return,please read code “ Disable suffix ”

To add TAB, please read code “ Add TAB”

To disable TAB, please read these code orderly “Add Carriage Return ”  
“ Disable suffix ”

Note: if you need other Terminator,please contact us.

## 10. Check digit setting

Scanning the corresponding bar code to achieve the corresponding function



Show EAN8 Check Digit



Hide EAN8 Check Digit



Show EAN13 Check Digit



Hide EAN13 Check Digit



Show UPCA Check Digit



Hide UPCA Check Digit



Show UPCE Check Digit



Hide UPCE Check Digit



Convert UPCE to UPCA

Note: If you need to set the check digit of other barcode types ,please contact us.



## 11. Language setup

Scanning the corresponding bar code to choose the language



UNITED STATES



LATIN AMERICA



FRANCE



BELGIUM



GERMANY



NETHERLANDS



BRAZIL



HUNGARY



SPAIN



DENMARK



ITALY



UNITED KINGDOM



CANADIAN-FRENCH



CROATIA



FINLAND



SWITZERLAND (FRENCH)



CZECHOSLOVAKIA (CZECH)



PORTUGAL



SWITZERLAND (GERMAN)



CZECHOSLOVAKIA (SLOVAK)



NORWAY



POLAND














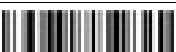



























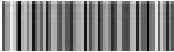

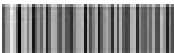


SWEDEN

























UNIVERSAL

## ON/OFF Settings

 Add ID front-OFF (default)	 Add ID front-ON
 Opposite color-ON(default)	 Opposite color-OFF
 CODE11-ON(default)	 CODE11-OFF
 CODE39-ON(default)	 CODE39-OFF
 FULLASCLL-OFF(default)	 FULLASCLL-ON
 CODE93-ON(default)	 CODE93-OFF
 CODE128-ON(default)	 CODE128-OFF
 CODABAR-ON(default)	 CODABAR-OFF
 Interleaved 2of 5-ON(default)	 Interleaved 2of 5-OFF
 Industrial 2of 5-ON(default)	 Industrial 2of 5-OFF
 MSI-ON(default)	 MSI-OFF

 UPCA-ON(default)	 UPCA-OFF
 UPCE-ON(default)	 UPCE-OFF
 EAN13-ON(default)	 EAN13-OFF
 EAN8-ON(default)	 EAN8-OFF
 UPCA to EAN13-OFF(default)	 UPCA to EAN13-ON
 ISBN-OFF(default)	 ISBN-ON
 *CODE32-OFF	 *CODE32-ON
 *CODE32 Check Digit -ON	 *CODE32 Check Digit-OFF
 *GS1-OFF	 *GS1-ON
 *GS1 Data bar Check Digit-OFF	 *GS1 Data bar Check Digit-ON
 *GS1 Limited Check Digit-OFF	 *GS1 Limited Check Digit-ON

## Data editing and examples

 Insert Characters	 Delete characters	
 Save Settings	 Clear settings	
 Before bar code	Start add or clear data after barcode ,setup by barcode in ASCLL Barcode Table	 After barcode
<b>Barcode types</b>		
 All barcode types	 UPCE	 UPCA
 EAN8	 EAN13	 ISBN
 Code39	 Code128	 Code93
 Coda bar	 Interleaved 2 of 5	 industrial 2 of 5
 MSI	 Code11	 Inch
 GS1D	 GS1L	 GS1E
 Code32	Don't scan barcode type by default all barcode type	
Save the setting, Data Group (Different data group Settings can take effect at the same time)		
 Data Group 1	 Data Group 2	 Data Group 3
 Data Group 4	 Data Group 5	 Data Group 6
 Data Group 7	 Data Group 8	Don't scan Data Group set of barcode first group by default
 Swap capital/lowercase	 All lowercase	
 All capital	 Cancel capital/lower case settings	

## Insert or delete operation for example

In the process of setting, scan the irrelevant barcode, the scanner will exit setting status.

### Example 1: Insert character: 123456789(Code128)








Insert Ab before barcode	Insert Cd after the third digit of the barcode	Insert Ef after barcode
1, Insert Characters		
2, All barcode types		
3, Data Group 1		
4, Before barcode	 003 ETX	 After Barcode
5, 065 A	 067 C	 069 E
6, 098 b	 100 d	 102 f
Each data group can insert within 10 characters		
7, Save Settings		
Setup result		
Ab123456789	123Cd456789	123456789Ef
Removal of insert character settings, Please scan in turn	 Insert Characters	 Clear settings

I : Can set different bar code type, make this setting to this kind of bar code is effective

II : Can set different data group, make different Settings take effect at the same time

## Example 2: Delete Character, 123456789(Code128)



Delete one digit before barcode	Delete two digit after the third digit of the barcode	Delete three digit after barcode
1,  Delete characters		
2,  All barcode types		
3,  Data Group 1		
4,  Before barcode	 003 ETX	 After Barcode
5,  001 SOH	 002 STX	 003 ETX
6,  Save Settings		
Setup result		
23456789	1236789	123456
Removal of delete character settings, Please scan in turn	 Delete characters	 Clear settings

I : Can set different bar code type, make this setting to this kind of bar code is effective








II : Can set different data group, make different Settings take effect at the same time


## ASCLL Barcode Table
























 000 NUL/SP	 001 SOH	 002 STX
 003 ETX	 004 EOT	 005 ENQ
 006 ACK	 007 BEL	 008 Back Space
 009 HT/TAB	 010 LF	 011 VT
 012 FF	 013 CR/ENTER	 014 SO
 015 SI	 016 DLE	 017 DC1
 018 DC2	 019 DC3	 020 DC4
 021 NAK	 022 SYN	 023 ETB
 024 CAN	 025 EM	 026 SUB
 027 ESC	 028 FS	 029 GS
 030 RS	 031 US	 032 SP




 033 !	 034 "	 035 #
 036 \$	 037 %	 038 &
 039 *	 040 (	 041 )
 042 *	 043 +	 044 ,
 045 -	 046 .	 047 /
 048 0	 049 1	 050 2
 051 3	 052 4	 053 5
 054 6	 055 7	 056 8
 057 9	 058 :	 059 ;
 060 <	 061 =	 062 >
 063 ?	 064 @	 065 A

 066 B	 067 C	 068 D
 069 E	 070 F	 071 G
 072 H	 073 I	 074 J
 075 K	 076 L	 077 M
 078 N	 079 O	 080 P
 081 Q	 082 R	 083 S
 084 T	 085 U	 086 V
 087 W	 088 X	 089 Y
 090 Z	 091 [	 092 \
 093 ]	 094 ^	 095 _
 096 .	 097 a	 098 b

 099 c	 100 d	 101 e
 102 f	 103 g	 104 h
 105 i	 106 j	 107 k
 108 l	 109 m	 110 n
 111 o	 112 p	 113 q
 114 r	 115 s	 116 t
 117 u	 118 v	 119 w
 120 x	 121 y	 122 z
 123 {	 124	 125 }
 126 ~	 127 DEL	 128 F1
 129 F2	 130 F3	 131 F4

 132 F5	 133 F6	 134 F7
 135 F8	 136 F9	 137 F10
 138 F11	 139 F12	 140 l_Shift on
 141 l_Shift off	 142 r_Shift on	 143 r_Shift off
 144 l_Alt on	 145 l_Alt off	 146 r_Alt on
 147 r_Alt off	 148 l_Ctrl on	 149 l_Ctrl off
 150 r_Ctrl on	 151 r_Ctrl off	 152 /(KP)
 153 *(KP)	 154 -(KP)	 155 +(KP)
 156 _(KP)	 157 Enter(KP)	 158 0(KP)
 159 1(KP)	 160 2(KP)	 161 3(KP)
 162 4(KP)	 163 5(KP)	 164 6(KP)

 165 7(KP)	 166 8(KP)	 167 9(KP)
 168 Inert	 169 Delete	 170 Home
 171 End	 172 Page Up	 173 Page Down
 174 Up	 175 Down	 176 Left
 177 Right	 178 Center	 179 Inert
 180 Delete	 181 Home	 182 End
 183 Page Up	 184 Page Down	 185 Up
 186 Down	 187 Left	 188 Right
 189	 190 Num Lock	 191 caps lock
 192 scroll lock		

## ASCLL special char table

Hex	Dec	Description	Hex	Dec	Description	Hex	Dec	Description
#00	0	NUL(CTRL @)	#81	129	F2	#A3	163	5 Keypad
#01	1	SOH(CTRL A)	#82	130	F3	#A4	164	6 Keypad
#02	2	STX(CTRL B)	#83	131	F4	#A5	165	7 Keypad
#03	3	ETX(CTRL C)	#84	132	F5	#A6	166	8 Keypad
#04	4	EOT(CTRL D)	#85	133	F6	#A7	167	9 Keypad
#05	5	ENQ(CTRL E)	#86	134	F7	#A8	168	Insert Keypad
#06	6	ACK(CTRL F)	#87	135	F8	#A9	169	Delete Keypad
#07	7	BEL(CTRL G)	#88	136	F9	#AA	170	Home Keypad
#08	8	BS(Backspace)	#89	137	F10	#AB	171	end Keypad
#09	9	HT(Tab)	#8A	138	F11	#AC	172	Page Up Keypad
#0A	10	LF(CTRL J)	#8B	139	F12	#AD	173	Page Down Keypad
#0B	11	VT(CTRLK)	#8C	140	Left shift make	#AE	174	Up Arrow Keypad
#0C	12	FF(CTRL L)	#8D	141	Left shift break	#AF	175	Down Arrow Keypad
#0D	13	CR(Enter)	#8E	142	Right shift mark	#B0	176	Left Arrow Keypad
#0E	14	SO(CTRL N)	#8F	143	Right shift break	#B1	177	Right Arrow Keypad
#0F	15	SI(CTRL O)	#90	144	Left ALT mark	#B2	178	Center Keypad
#10	16	DLE(CTRL P)	#91	145	Left ALT break	#B3	179	Insert
#11	17	DC1(CTRL Q)	#92	146	Right ALT mark	#B4	180	Delete
#12	18	DC2(CTRL R)	#93	147	Right ALT break	#B5	181	Home
#13	19	DC3(CTRL S)	#94	148	Left control mark	#B6	182	End
#14	20	DC4(CTRL T)	#95	149	Left control break	#B7	183	Page Up
#15	21	NAK(CTRL U)	#96	150	Right control mark	#B8	184	Page Down
#16	22	SYN(CTRL V)	#97	151	Right control break	#B9	185	Up Arrow
#17	23	ETB(CTRL W)	#98	152	/Keypad	#BA	186	Down Arrow
#18	24	CAN(CTRL X)	#99	153	*Keypad	#BB	187	Left Arrow
#19	25	EM(CTRL Y)	#9A	154	-Keypad	#BC	188	Right Arrow
#1A	26	SUB(CTRL Z)	#9B	155	+Keypad	#BD	189	
#1B	27	ESC(ESC)	#9C	156	-Keypad	#BE	190	Num Lock
#1C	28	FS(CTRL \)	#9D	157	enter Keypad	#BF	191	Caps Lock
#1D	29	GS(CTRL ])	#9E	158	0Keypad	#C0	192	Scroll Lock
#1E	30	RS(CTRL ^)	#9F	159	1Keypad	#C1	193	Print Screen
#1F	31	US(CTRL _)	#A0	160	2Keypad	#C2	194	Pause
#7F	127	DEL(CTRL Backspace)	#A1	161	3Keypad			
#80	128	F1	#A2	162	4Keypad			



