

Winson bluetooth barcode scanner user manual

Version V1.0

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FCC STATEMENT :

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

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which 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 or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

- English: "

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device."

- French:"

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil n' doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

一、 Introduction

Bluetooth barcode scanner uses Bluetooth 4.0 project design, matching with different decoding engines, it can meet the using requirements in different scenes.

This guide mainly provides bluetooth barcode scanner's various functions set commands and methods, Users can refer to this document to set up different functions. "*"logo means those functions are default function.

二、 Using method

The first time you get the bluetooth scanner, please follow the following three steps to use.

1. Turn on the scanner, means press the power button, red light flash.
2. Turn on mobile phone's bluetooth, search for new bluetooth device. Different devices/ mobile phones you use, the first name of our bluetooth scanner shown on your devices are different, as " Keyboard", "Accessory", "General Bluetooth HID barcode scanner" etc, so when your device searches for those name's bluetooth device, please connect. After connection, your device will show " WinsonScanner", scanner red light off, green light normally on, and comes with successful connection sound.

三、 Setting method

Winson bluetooth scanner can switch different functions by scanning function barcodes to meet different application.

There are two methods for setting:

One: Common setting method: Scan "@SET" barcode, then scan relevant function barcode, finally scan "@END" barcode.

Two: Quick setting method: scan relevant function barcode directly, as set up inventory model: Scan "@.WN-T-F2000/" barcode directly, then scan "@.WN-X-XXXXX/".

四、Function introduction

4.1 Wire communication interface

4.1.1 Wire output method options





Two options: ① USB-HID keyboard output ② USB virtual com port output

Function	Command	Barcode	Remark
	@SET		
*USB output	WN-W-L1000		USB-HID output
USB virtual com port output	WN-W-L1001		USB-VCP output Notice:Before using USB virtual com port please install USB transfer serial port driver first
	@END		

4.1.2 Wire output method automatic transfer switch

The default is the open state, after opened, insert USB cable, it will shift to be wire output automatically.

According to the request, client can close that automatic shift function

Function	Command	Barcode	Remark
	@SET		
*Turn on "USB wire output"	WN-T-L0000		USB port only charging function
Turn off "USB wire output"	WN-T-L0001		After closed, USB cable is just for charging, data need to transfered by wireless transmission.
	@END		

4.2 Keyboard language selection

According to user computer language to choose corresponding keyboard language. If corresponding keyboard language don't match computer language, the output character will appear scrambled.

Function	Command	Barcode	Remark
	@SET		
*USA	WN-W-B1000		American
FRENCH	WN-W-B1001		France
GEMRAN	WN-W-B1002		Germany
TUKISH	WN-W-B1003		Turkey
BELGIUM	WN-W-B1004		French (Belgium)
BRAZIL	WN-W-B1005		Brazil
CRZCH	WN-W-B1006		Czech Republic
SPANISH	WN-W-B1007		Spanish (Latin America)
	@END		

4.3 Sleeping time selection





Function	Command	Barcode	Remark
	@SET		
*20 seconds	WN-T-G0001		
60 seconds	WN-T-G0003		
3 minutes	WN-T-G0009		
5 minutes	WN-T-G0015		
15 minutes	WN-T-G0045		
30 minutes	WN-T-G0090		
No Sleeping time	WN-T-G0000		No Sleeping time (Under wire output situation, recommend to use No Sleeping time; Under wireless output situation, Not Recommend to use No Sleeping time)
	@END		

4.4 Character prefix and suffix

4.4.1 Prefix setting

According to the request, scanner can be added the length 10Byte prefix and suffix. For example, Sets the prefix character “#Ab9” to barcode “1234567” , then output barcode content is “#Ab91234567”.

1. Scan “Enter setting” barcode
2. Scan “User-defined prefix + barcode” barcode
3. Scan “#”, “A”, “B”, “9” Barcode one by one.
4. Scan “Save&Exit”





Function	Command	Barcode	Remark
	@SET		
*Disable prefix	WN-T-I0000		
User-defined prefix barcode	WN-T-I0002		
	@END		

4.4.2 Suffix setting

For example, Sets the suffix character “%B” to barcode “1234567” , then output barcode content is “1234567%B”.

1. Scan “Enter setting” barcode
2. Scan “User-defined suffix + barcode” barcode
3. Scan “%”, “B” barcode one by one.
4. Scan “Save&Exit”






Notice: System default: Common End symbol 0x0D(Enter), 0x0A(line feed), 0x09(Tab)

	Command	Barcode	Remark
	@SET		
Disable suffix	WN-T-I1000		No suffix
*User-defined suffix barcode	WN-T-I100A		The suffix character can belongs to anyone of ASCii list, user can set according to the request
	@END		




4.5 Operation mode

Notice:

1. The above 5 barcodes are quick commands, successful scanning means successful setting
2. The following three functions “Upload data”, “Data amount”, “Delete data” in inventory mode are not available when the scanner is under setting situation. After scanned “ Exit & Save” barcode, that three functions will be back to be available.
3. Storage(Suitable for all winson wireless barcode scanner)
 Inventory mode: The storage is 49,000 pcs 30Byte barcodes, 104,500 pcs 13Byte barcodes
 Cache mode: The storage is 14,200 pcs 13Byte barcodes, 30,300 pcs 13Byte barcodes




Function	Quick command	Barcode	Remark
*Common mode/Real time mode	@.WN-T-F0000/		Scan and transfer, failure alarm
Inventory mode	@.WN-T-F2000/		Scan the barcode, not upload immediately, store in memory automatically, all data will upload after scan “Upload data”barcode, and it will clear all data after scan “Clear data”, or check the data amount after scan “Data amount” barcode.
Upload data	@.WN-T-F2001/		Upload barcode data
Data amount	@.WN-T-F2002/		Upload barcode data amount
Delete data	@.WN-T-F2003/		Delete all Inventory data

4.6 Check parameter




Function	Command	Barcode	Remark
	@SET		
Output parameter	system WN-W-C1000		1.Firmware version 2.battery capacity
	@END		

4.7 Character (Chinese) output code switch




Chinese character output is mainly for China Mainland user to develop suitable for Chinese output's function.

Function	Command	Barcode
No Chinese output	@.WN-W-F3000/	 @.WN-W-F3000/
GBK output	@.WN-W-F3001/	 @.WN-W-F3001/
UTF output	@.WN-W-F3002/	 @.WN-W-F3002/

4.8 Restore default setting

Function	Command	Barcode	Remark
	@SET		
Restore default setting	WN-W-H0000		Bluetooth will not interrupt
	@END		

4.9 Firmware upgrade

Function	Command	Barcode	Remark
	@SET		
TX Firmware upgrade	WN-T-K0000		Connect scanner to PC by USB cable, scan upgrade barcode, then restart the scanner to check whether it finishes upgrade or not
	@END		

4.10 Customize data edition/communication protocol/function setting

1、 This function is for users with special requirements to customize data edition function. Users without a custom character editing function please ignore this feature.

Custom-1

User customize character request: If barcode is more than 17Bytes, then only left the last 17Bytes; if barcode is more than or equal with 17Bytes, all character will keep ; Remove the suffix return



@.WN-F-F4003/


















五、System Working status indication



















Serial number	Status indicators	Sounds indicators	LED light indicators
Boot to detect hints			
1	Wireless module detect abnormality	Three short beeps(high frequency)	Red light flash three times
2	External storage module abnormality	Two Long beeps (high frequency)	Red light flash two times
3	Normally turn on means in bluetooth pairing status	None	Red light Continuous flashing
Pairing status hint			
4	Wireless pairing failure	None	Red light continuous flashing until power off
5	Wireless pairing success	Two short beeps (high / mid frequency)	Green light normally on
Setting status hint			
6	Enter setting	One long beep and two short beeps (high / mid / low frequency)	Green light flash one time
7	Exit & Save	One long beep and two short beeps (high / mid / low frequency)	Green light flash one time
8	Setting command state	One long beep and one short beep (high / low frequency)	Green light normally on
9	Effective command	One long beep and two short beeps (high / mid / low frequency)	Green light flash one time
10	on-effective command	One long beep	Green light off, red light on,sound stop, indicator returns to its previous state
Inventory mode hint			
11	Inventory mode data upload success	One short beep(high frequency)	Green light flash one time
12	Inventory mode data upload failure	Three short beeps(middle frequency)	Red light flash three times
13	Inventory mode data Overflow	Two long beeps(high frequency)	Red light flash two times





















Real time/common mode hint			
14	Data upload success	One short beep(high frequency)	Green light flash once
15	Data upload failure	Three short beeps(middle frequency)	Red light flash three times
Battery capacity hint			
16	Charging status	None	Blue light on
17	Charging completed	None	Blue light off, green light on
18	Sleeping power off	None	Light off
19	Low battery hint	None	Red light on (does not affect the green light status)
Quick command hint			
20	Quick command	One long beep and two short beeps (high / mid / low frequency)	Green light flash once





















六、 Trouble removal





















七、 Appendix - character list





















Control character	Hex	
^@ (NULL)	00	
^A (SOH)	01	
^B (STX)	02	
^C (ETX)	03	
^D (EOT)	04	
^E (ENQ)	05	
^F (ACK)	06	
^G (BEL)	07	
^H (BS)	08	
^I (HTab)	09	
^J (LF)	0A	
^K (VTab)	0B	
^L (FF)	0C	
^M (CR)	0D	
^N (SO)	0E	
^O (SI)	0F	
^P (DLE)	10	



















^Q (DC1)	11	
^R (DC2)	12	
^S (DC3)	13	
^T (DC4)	14	
^U (NAK)	15	
^V (SYN)	16	
^W (ETB)	17	
^X (CAN)	18	
^Y (EM)	19	
^Z (SUB)	1A	
^[(ESC)	1B	
^\ (FS)	1C	
^] (GS)	1D	
^^ (RS)	1E	
^_ (US)	1F	
SPC	20	
Character	Hex	
!	21	
"	22	




#	23	
\$	24	
%	25	
&	26	
'	27	
(28	
)	29	
*	2A	
+	2B	
,	2C	
-	2D	
.	2E	
/	2F	
0	30	
1	31	
2	32	
3	33	
4	34	
5	35	
6	36	










7	37	
8	38	
9	39	
:	3A	
;	3B	
<	3C	
=	3D	
>	3E	
?	3F	
@	40	
A	41	
B	42	
C	43	
D	44	
E	45	
F	46	
G	47	
H	48	
I	49	
J	4A	

K	4B	
L	4C	
M	4D	
N	4E	
O	4F	
P	50	
Q	51	
R	52	
S	53	
T	54	
U	55	
V	56	
W	57	
X	58	
Y	59	
Z	5A	
[5B	
\	5C	
]	5D	
^	5E	

–	5F	
`	60	
a	61	
b	62	
c	63	
d	64	
e	65	
f	66	
g	67	
h	68	
i	69	
j	6A	
k	6B	
l	6C	
m	6D	
n	6E	
o	6F	
p	70	
q	71	
r	72	

s	73	
t	74	
u	75	
v	76	
w	77	
x	78	
Y	79	
z	7A	
{	7B	
	7C	
}	7D	
~	7E	
DEL	7F	
Function button	Hex	
F1	80	
F2	81	
F3	82	
F4	83	
F5	84	

F6	85	
F7	86	
F8	87	
F9	88	
F10	89	
F11	8A	
F12	8B	
Backspace	8C	
Tab	8D	
Return (ENTER)	8E	
Enter (Numeric Keypad)	8F	
Esc	90	
Arrow Down	91	
Arrow up	92	
Arrow right	93	
Arrow left	94	
Insert	95	
Home	96	
End	97	
Page up	98	

Page down	99	
Left Shift	9A	
Left Ctrl	9B	
Left Alt	9C	
Left GUI	9D	
Right Shift	9E	
Right Ctrl	9F	
Right Alt	A0	
Right GUI	A1	
Caps Lock	A2	