

# User Manual

## DT3003



### Barcodescanner – DT3003



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## Introduction

Thank you for trusting a product from DTRONIC. Please read the contents of the user manual carefully in order to use the products safely and effectively.

You are advised to keep this manual correctly for your installation and as a reference. Please do not disassemble the product or tear off the seal, otherwise we will not provide warranty or replacement service.

The illustrations in this user manual are for reference only. If there are images that do not match the actual product, please take the actual product as standard.

Updated information is subject to change without notice. All information in this manual is copyrighted and our company reserves all rights. It is prohibited to distribute, copy, compile or sell all or part of this manual without our written permission.

DTRONIC is a BOIP registered trademark and legally protected in cooperation with GS1. Diwolar is the only company with the rights to market this trademark. If you have purchased a product that was not purchased through Diwolar, the warranty is void. When contacting customer service always ask for the order number. This user manual applies to DTRONIC barcode scanners that identify barcodes using a laser scan pattern.

DTRONIC is not liable for damages and defects suffered when the barcode scanner fails, does not work properly or is misused.

Do you have any questions about your product? We will be happy to assist you.

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# INHOUDSOPGAVE

## Inhoud

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# 1. Product

## 1.1 Function

- Works with Plug&Play and without installation software.
- Works with most WMS systems.
- Some WMS or POS systems must be set up to use a scanner.
- Device the scanner is connected to will see it as keyboard.
- Basically the scanner scans the 95% of bar codes, remaining 5% can be set as desired with this manual.
- There are patented parts in the scanner, DTRONIC has the rights to sell these items on the Dutch, Belgian and German market

## 1.2 Unbox

After opening the box containing the product, perform the following steps:

- Remove the scanner accessories from the packaging.
- Remove the scanner from the packaging.
- At the packing list, check that everything is complete and in good condition. If there are damaged or missing parts, save the original packaging and contact DTRONIC for customer service.

Packing list:

1. Handheld scanner
2. USB Connection Cable (for wireless scanners, this is the charging cable).
3. Paperclip
4. Abridged user manual

## 1.3 Start

Startup: connect the computer to the scanner. The computer will recognize it as a keyboard and the scanner can be used.

Power off: remove the cable connected to the scanner; remove the USB connected to the computer.

Restart: if the scanner crashes or is unresponsive, turn it off and restart it. Optionally, use the factory setting from this manual

## 1.4 Window

The scanning window must be kept clean, the supplier does not bear the warranty responsibility due to improper maintenance. Prevent the window from wearing out or being scratched by a hard object. Use a soft cloth to remove stain on the scanning window. Clean the scan window with a soft cloth, such as a lens cleaning cloth

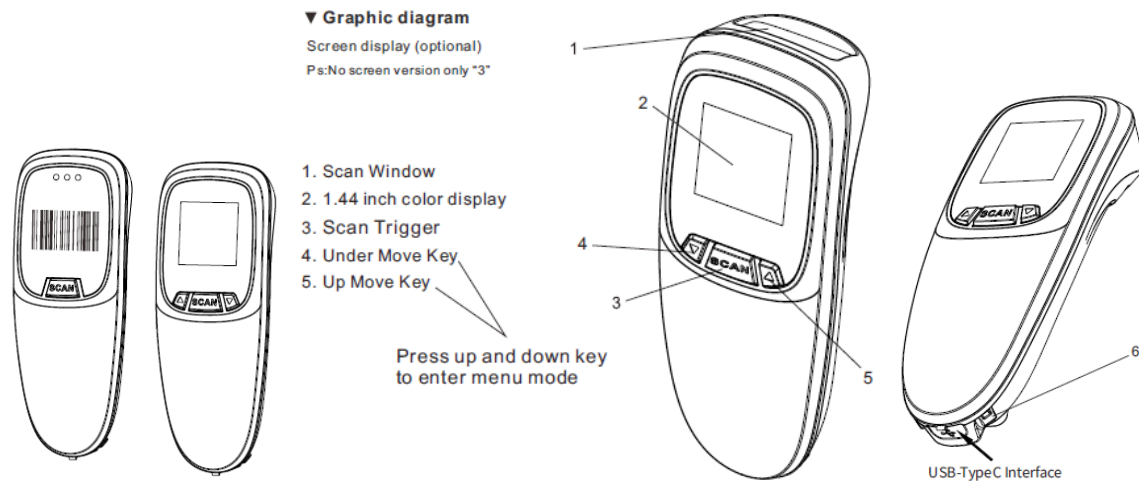
Spraying liquid on the scan window is prohibited. Prohibit all cleaning solvents except cleaning water.

## 1.5 Reading

If the bar code is small, it should be closer to the scan window; if the bar code is large, it should be further away from the scan window for easier reading.

If the bar code is highly reflective (for example, the coated surface), you may need to tilt the bar code at an angle to scan the bar code. The best distance to read a bar code is 10-15 cm

## 1.6 Picture



## 1.7 Led indicator

	INDICATOR STATUS	EXPLAIN
	Red light on	Charging
	Red light off	No charging
	Green light on	No decoding
	Green light off	Decode succesfully
	One blue light on	Pairing successful or connect to USB


## 2. System Setup

### 2.1 System Setup

Option and function setting mainly by reading a series of special bar codes. In this chapter, we give you a detailed introduction to the options and functions available for user setup and the corresponding setup code.

This method of setting up the scan is direct, easy to understand and user-friendly.


#### 2.1.1 Setup code

	
Start scan setting and safe with this >>	Exit Settings


#### 2.1.2 Restore factory default settings


Restore factory settings



#### 2.1.3 Battery capacity



Battery

#### 2.1.4 Product User Settings

	
Save user default settings	Restore user default settings



#### 2.1.5 Beeper settings

	
Volume set to High (50%) (default)	Volume set to midrange (25%)



	
Mute	

**2.1.6 2.4G**

- 1、 To enter the pairing status, first scan“2.4G Receiver Mode”, then scan “Pairing Setting”(the green light will flash).
- 2、 Plug the USB dongle into the device, when hearing a“beep”sound, it means the pairing is successful and the blue&green light is always on. (The whole pairing process takes about 1min, if timeout and the pairing failed, it will automatically exit the pairing mode);




	
Receiver mode	Pairing setting

**2.1.7 Vibration Settings**

	
On	Off

**2.2 Reading mode settings**







**2.2.1 Scan mode**

	
Continuous mode	Manual
	

Automatic	
-----------	--

## 2.2.2 Sleep time

The repeat read setting is only available in continuous mode.

	
1 min	2min
	
5min	30min
	
No sleep mode	Immediately sleep





## 2.2.3 Time display

	
Set display front	Set time back
	
Turn off time	













## 2.3 Communication settings



- 1、 First scan “Bluetooth HID”, then scan “Pairing Setting” to enter Bluetooth searching(Blue&green light will flash once the searching is begun);
- 2、 Turn on Bluetooth in your device, search, select and pair “Barcode Scanner HID”, if the pairing is successful, you will hear a “beep” sound and green&flash light is always on. (The whole pairing process takes about 1min, if timeout and the pairing failed, it will automatically exit the pairing mode)

	
Bluetooth pairing	Bluetooth searching
	
Bluetooth HID	Virtuele com-poort

### 2.3.1 USB keyboard





Portuguese (Brazil) cannot output "?" and "/" .

	
Nederlands	Italian
	
Spanish	Czech
	
Portuguese	French
	
German	Enter UTF
	
Turkish F	English (UK)




	
Japanese	German (Switzerland)
	
Belgium	

### 2.3.2 USB keyboard sending speed



If there is missed data at the receiver side, the occurrence speed should be turned down, which is easy to occur at the receiver side with poor performance.

	
5 ms (default)	10 ms
	
20 ms	Ultra low

### 2.3.3 Eject / Hide keyboard

	
Eject/Hide HID Keyboard	Turn On Keyboard Double-click Function (Default)
	
Turn Off Keyboard Double-tap Function	

### 2.3.4 Inventory Mode









	
Off	Upload statistics

	
Upload all data	Delete all data
	
Offline	Immediate mode
	
Mixed Mode	Upload in memory chip
	
Delete all data in memory chip	Show total amount scans in storage

### 2.3.5 Custom prefix on/off settings

Custom prefixes add a user-defined string before the decoded information. For example, if you allow to add a custom prefix and set the prefix to the string "AB", after reading the barcode with the data "123", the scanner adds the string "AB" before the string "123", and the host side receives "AB123". After the barcode reading data is "123", the scanner will add the string "AB" before the string "123", and the host side will receive "AB123".

If set to "Off", the decoded information will only have the barcode data information, no prefix, and the default value is to turn off the custom prefix output.

	
Hide the Front Character (prefix)	Hide the Back-end Character (suffix)
	
Set escape character set 0	Set escape character set 1
	
Set escape character set 2	Set escape character set 3
	
Set escape character set 4	Set GS Character Convert

### 2.3.6 Customized prefixes

The custom prefix adds a user-defined string before the decoded information, and the output format after customization is "Custom Content + Barcode Content".

Set the custom prefix to 'a' (the hex value of a is 0x61)

1. Read "Startup Settings"
2. Read the "Custom Prefix" setting code
3. Check the ASCII code of the character "a": the ASCII code of "a" is "0x61" (see ASCII code table)
4. Read data code: "6" "1" (see data code table)
5. Read "Save" (see data code table)
6. Read "Exit Settings"


Set prefixes

### 2.3.7 Custom suffix on/off settings

### 2.3.8 Custom suffixes

Custom suffix adds a user-defined string after the decoded information, and the output format after customization is "barcode content + custom content".

Set the custom suffix to 'a' (the hex value of a is 0x61)

1. Read "Startup Settings"
2. Read the "Custom Suffix" setting code
3. Check the ASCII code of the character "a": the ASCII code of "a" is "0x61" (see ASCII code table)
4. Read data code: "6" "1" (see data code table)
5. Read "Save" (see data code table)
6. Read "Exit Settings"



### 2.3.9 Terminator settings

The terminator suffix is used to mark the end of a complete piece of data information. The terminator suffix stands alone and does not participate in any other form of data formatting. The terminator suffix must be the last piece of data sent, and no additional data will be added thereafter.

The ending character can be set to carriage return, line feed, carriage return line feed, tab or ETX, and the default ending character is set to carriage return.


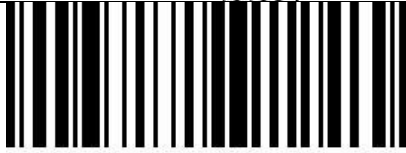


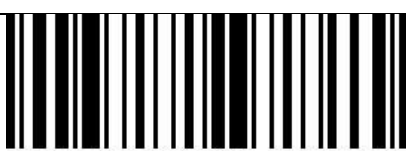




	
No terminator	Enter (default)
	
Line Feed (Down)	Enter + LF
	
Tab	

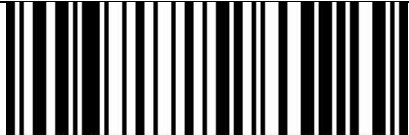
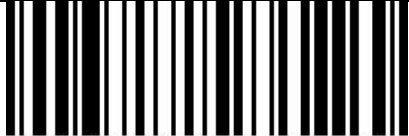
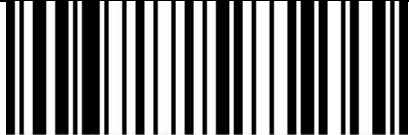

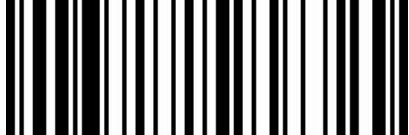
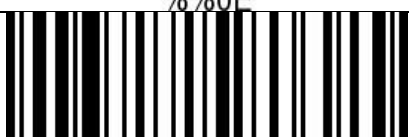





### 2.3.10 Case output settings

Case conversion for characters in a string, prefix and suffix have no effect.

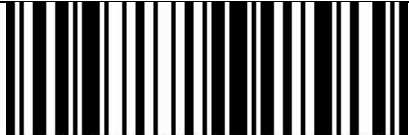
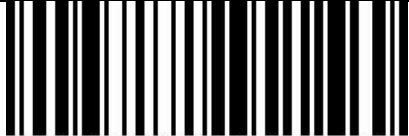



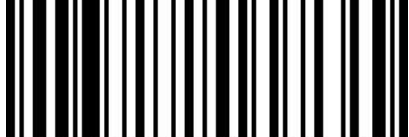
	
Normal output (default)	Convert Case
	
Convert all to Uppercase	Convert All to lowercase

## 3. Appendix

De ci ma l	AS CII	Chara cter set 0	Chara cter set 1	Chara cter set 2	Chara cter set 3	Chara cter set 4	Setting Barcode
1	SO H	NULL	Home	Ctrl+ A	Alt+00 1	Enter( Key pade)	 %%01
2	STX	Ctrl+B	End	Ctrl+ B	Alt+00 2	Cap Lock	 %%02
3	ETX	Ctrl+C	Up Arrow	Ctrl+ C	Alt+00 3	Right Arrow	 %%03
4	EOT	NULL	Down Arrow	Ctrl+ D	Alt+00 4	Up Arrow	 %%04
5	EN Q	NULL	Left Arrow	Ctrl+ E	Alt+00 5	NULL	 %%05
6	AC K	NULL	Right Arrow	Ctrl+ F	Alt+00 6	NULL	 %%06
7	BEL	NULL	Shift+ Tab	Ctrl+ G	Alt+00 7	Enter	 %%07
8	BS	Back Space	Back Space	Back Spac e	Alt+00 8	Left Arrow	 %%08
9	HT	Tab	Tab	Tab	Alt+00 9	Tab	 %%09

10	LF	Enter	Enter	Ctrl+P	Alt+010	Down Arrow	
11	VT	NULL	NULL	Ctrl+Q	Alt+011	Tab	
12	FF	NULL	NULL	Ctrl+R	Alt+012	delete	
13	CR	Enter	Enter	Enter	Alt+013	Enter	
14	S0	F1	Page Up	Ctrl+N	Alt+014	Insert	
15	S1	F2	Page Down	Ctrl+O	Alt+015	Esc	
16	DLE	F3	F11	Ctrl+P	Alt+016	F11	
17	DC1	F4	NULL	Ctrl+Q	Alt+017	Home	
18	DC2	F5	NULL	Ctrl+R	Alt+018	Print Screen	
19	DC3	F6	NULL	Ctrl+S	Alt+019	Back Space	
20	DC4	F7	NULL	Ctrl+T	Alt+020	Shift tab	



21	NA K	F8	F12	Ctrl+ U	Alt+02 1	F12	 %%15
22	SYN	F9	F1	Ctrl+ V	Alt+02 2	F1	 %%16
23	TB	F10	F2	Ctrl+ W	Alt+02 3	F2	 %%17
24	CA N	F11	F3	Ctrl+ X	Alt+02 4	F3	 %%18
25	EM	F12	F4	Ctrl+ Y	Alt+02 5	F4	 %%19
26	SU B	NULL	F5	Ctrl+ Z	Alt+02 6	F5	 %%1A
27	Esc	Esc	F6	Ctrl+[	Alt+02 7	F6	 %%1B
28	FS	ALT+ 028	F7	Ctrl+\	Alt+02 8	F7	 %%1C
29	GS	ALT+ 029	F8	Ctrl+]	Alt+02 9	F8	 %%1D
30	RS	NULL	F9	Ctrl+ ^	Alt+03 0	F9	 %%1E
31	US	NULL	F10	Ctrl+ _	Alt+03 1	F10	 %%1F



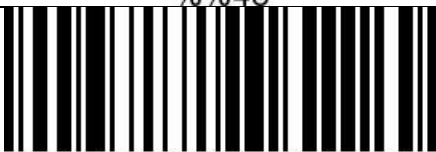


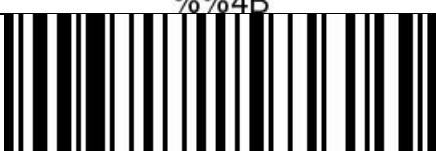




### 3.1.1 Appendix 3 Control Characters Table

Decimal	ASCII	Corresponding Barcode
32	<b>Space</b>	 %%20
33	<b>!</b>	 %%21
34	<b>"</b>	 %%22
35	<b>#</b>	 %%23
36	<b>\$</b>	 %%24
37	<b>%</b>	 %%25
38	<b>&amp;</b>	 %%26
39	<b>'</b>	 %%27
40	<b>(</b>	 %%28

41	)	 %%29
42	*	 %%2A
43	+	 %%2B
44	,	 %%2C
45	-	 %%2D
46	.	 %%2E
47	/	 %%2F
48	0	 %%30
49	1	 %%31
50	2	 %%32

51	3	
52	4	
53	5	
54	6	
55	7	
56	8	
57	9	
58	:	
59	;	
60	<	


61	=		%%3D
62	>		%%3E
63	?		%%3F
64	@		%%40
65	A		%%41
66	B		%%42
67	C		%%43
68	D		%%44
SFF69	E		%%45
70	F		%%46

71	<b>G</b>	 %%47
72	<b>H</b>	 %%48
73	<b>I</b>	 %%49
74	<b>J</b>	 %%4A
75	<b>K</b>	 %%4B
76	<b>L</b>	 %%4C
77	<b>M</b>	 %%4D
78	<b>N</b>	 %%4E
79	<b>O</b>	 %%4F
80	<b>P</b>	 %%50

81	<b>Q</b>	
82	<b>R</b>	
83	<b>S</b>	
84	<b>T</b>	
85	<b>U</b>	
86	<b>V</b>	
87	<b>W</b>	
88	<b>X</b>	
89	<b>Y</b>	
90	<b>Z</b>	

91	[	
		%%5B
92	\	
		%%5C
93	]	
		%%5D
94	^	
		%%5E
95	_	
		%%5F
96	`	
		%%60
97	<b>a</b>	
		%%61
98	<b>b</b>	
		%%62
99	<b>c</b>	
		%%63
100	<b>d</b>	
		%%64



101	<b>e</b>	 %%65
102	<b>f</b>	 %%66
103	<b>g</b>	 %%67
104	<b>h</b>	 %%68
105	<b>i</b>	 %%69
106	<b>j</b>	 %%6A
107	<b>k</b>	 %%6B
108	<b>l</b>	 %%6C
109	<b>m</b>	 %%6D
110	<b>n</b>	 %%6E

111	<b>o</b>	
112	<b>p</b>	
113	<b>q</b>	
114	<b>r</b>	
115	<b>s</b>	
116	<b>t</b>	
117	<b>u</b>	
118	<b>v</b>	
119	<b>w</b>	
120	<b>x</b>	

121	y	
		%%79
122	z	
		%%7A
123	{	
		%%7B
124		
		%%7C
125	}	
		%%7D
126	~	
		%%7E
127	DEL	
		%%7F
164	¤	
		%%A4
199	Ç	
		%%C7

231	Ç	 %%E7
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### 3.1.2 Appendix 4 ASCII Code table