


# User Manual


## DT3327



### Barcodescanner – DT3327

---

 : 0645733500

 : [info@diwolar.nl](mailto:info@diwolar.nl)

 : <https://www.dtronic.nl/>

---

*Datum : 23-8-2023*

*Versie : 1.0*

## 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.

	Mail: <a href="mailto:info@diwolar.nl">info@diwolar.nl</a>	Bereikbaar van 09:00-17:00u
	WhatsApp: +316 45 733 500	Bereikbaar van 09:00-17:00u
	Website: <a href="http://www.dtronic.nl">www.dtronic.nl</a>	Webshop 24/7 geopend

### Kind regards, team Dtronic

- Diederik	Director
- Arjan	Operations manager
- Marjolein	Financial employee
- Jaxx	Administrative employee
- Tim	Customer service
- Hessel	Customer service
- Roger	Test center
- Kees-Jan	Logistics

## Inhoud

<b>INTRODUCTION .....</b>	<b>2</b>
<b>1. PRODUCT .....</b>	<b>5</b>
1.1 Function .....	5
1.2 Unbox.....	5
1.3 Start .....	5
1.4 Window.....	5
1.5 Reading .....	6
1.6 Picture.....	6
1.7 Led indicator .....	6
<b>2. SYSTEM SETUP .....</b>	<b>7</b>
2.1 System Setup .....	7
2.1.1 Setup code.....	7
2.1.2 Restore factory default settings .....	7
2.1.3 Product User Settings.....	7
2.1.4 Beeper settings.....	7
2.1.5 Com Port.....	8
2.2 Reading mode settings .....	8
2.2.1 Level trigger mode.....	8
2.2.2 Pulse trigger mode .....	8
2.3 Communication settings.....	9
2.3.1 Communication settings.....	9
2.3.2 Set USB keyboard .....	9
2.3.3 Serial port baud rate setting.....	9
2.3.4 Serial port parity bit setting.....	10
2.4 Data format setting.....	10
2.4.1 Custom prefix on/off settings.....	10
2.4.2 Custom suffix on/off settings .....	11
2.4.3 Terminator settings .....	11
2.5 Symbologies.....	12
2.5.1 All barcodes .....	12
2.5.2 EAN8 Settings .....	12
2.5.3 UPC-A settings .....	12
2.5.4 UPC-E settings .....	13
2.5.5 Code 39 Settings.....	13
2.5.6 Code 39 Length Setting .....	14
2.5.7 Code 128 settings .....	15
2.5.8 Code 128 length setting .....	15
2.5.9 Code 93 settings .....	16
2.5.10 Code 93 Length Setting .....	16
2.5.11 Codabar Settings .....	17
2.5.12 Codabar Length Setting.....	17
2.5.13 Interleave 2 of 5 (ITF5) setting .....	18
2.5.14 ITF25 length setting.....	18
<b>3. APPENDIX .....</b>	<b>19</b>
3.1 Appendix 1 Data code table.....	19
3.1.1 Appendix 2 Code system support list.....	19

---

3.1.2 Appendix 3 Control Characters Table.....	20
3.1.3 Appendix 4 ASCII Code table .....	20
<b>4. APPENDIX D – FUNCTION KEY TABLE .....</b>	<b>51</b>
<b>5. APPENDIX D – FUNCTION KEY TABLE .....</b>	<b>52</b>
<b>1. APPENDIX D – FUNCTION KEY TABLE .....</b>	<b>52</b>

# 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.

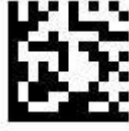

#### 2.1.1 Setup code

	
Startup settings (default)	Exit Settings



#### 2.1.2 Restore factory default settings



Restore factory settings

#### 2.1.3 Product User Settings



	
Save user default settings	Restore user default settings

#### 2.1.4 Beeper settings

	
---	---

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


### 2.1.5 Com Port

	
Virtual	RS232

## 2.2 Reading mode settings


### 2.2.1 Level trigger mode

Enter the reading state when the trigger key pin is at low level. Press and hold the trigger key to start reading code. After reading the code successfully or releasing the trigger key, the code reading ends and the next decoding needs to re-enter the low level state.


Level trigger mode

### 2.2.2 Pulse trigger mode



When the reading setting code is switched to this mode, it enters the pulse-triggered reading state.


Pulse trigger mode




## 2.3 Communication settings

### 2.3.1 Communication settings







	
USB HID (default)	RS-232 serial port

### 2.3.2 Set USB keyboard





USB keyboard send speed, unit is milliseconds (ms). The default value is 5ms, the settable time range: 0ms~200ms.


Hide

### 2.3.3 Serial port baud rate setting

	
Baud rate 4800	Baud rate 9600 (default)
	
Baud rate 19200	Baud rate 38400
	
Baud rate 57600	Baud rate 115200

### 2.3.4 Serial port parity bit setting

	
No checksum (default)	Odd calibration
	
Even Check	

## 2.4 Data format setting




Length of custom prefix and suffix: (0~10) characters, if set to "on", "Code ID prefix", "custom prefix", "end suffix", etc. will be added before and after the decoding information. "Custom suffix", "End suffix", etc.

The maximum number of data cache is 5, and the maximum length of individual data is 7900 characters; the data output is sequential output, and you need to wait for the first barcode output to finish before the second barcode output, and so on.

### 2.4.1 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.

	
Enable	Disable (default)
	
Clear all custom prefixes	

### 2.4.2 Custom suffix on/off settings

The custom suffix adds a user-defined string after the decoded information. For example, it is allowed to add a custom suffix and set the suffix to the string "AB", after reading the barcode with the data of "123", the scanner adds the string "AB" after the string "123", and the host side receives "123AB". After the barcode reading data is "123", the scanner will add the string "AB" after the string "123", and the host side will receive "123AB".





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

	
Enable	Disable (default)

### 2.4.3 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)
	
Tab	Carriage return + Line feed (Enter+Down)

## 2.5 Symbologies







Each type of barcode has its own unique properties, and the setup codes in this chapter allow you to adjust the scanner to accommodate these property changes.

The fewer barcode types that are turned on, the faster the scanner will Scan. You can turn off the barcode types that will not be used to improve the performance of the scanner.



### 2.5.1 All barcodes



	
Close all barcodes	Turn on all barcodes

### 2.5.2 EAN8 Settings






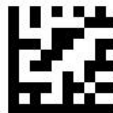
	
EAN8 on (default)	EAN8 off
	
Enable EAN8 transmission Check Character (default)	Disable EAN8 transmit Check Character
	
Convert EAN8 to EAN13	Do not Convert EAN8 to EAN13 (default)

### 2.5.3 UPC-A settings





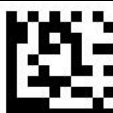

	
Transmit UPC-A check character (default)	Do not Transmit UPC-A check character

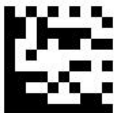



	
Convert UPC-A to EAN13 (default)	Do not Convert UPC-A to EAN13

**2.5.4 UPC-E settings**

	
UPC-E on (default)	UPC-E Off
	
Transmit UPC-E Check Character (default)	Do no Transmit UPC-E transmission Check Character
	
Convert UPC-E to UPC-A	Do not Convert UPC-E to UPC-A (default)


**2.5.5 Code 39 Settings**

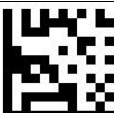
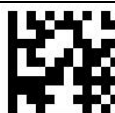
	
Code 39 on (default)	Code 39 Off
	
Enable Code 39 Check Character	Disable Code 39 Check Character (default)
	

Transmit Code 39 Check Character	Do not Transmit Code 39 Check Character (default)
	
Transmit Code 39 start and stop characters	Do not Transmit Code 39 start and stop characters (default)
	
Full ASCII On	Full ASCII Off (default)

### 2.5.6 Code 39 Length Setting

**OPMERKING:**

 If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.





	
Minimum length setting	Maximum length setting

**Example**

Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.


1. Scan "Startup Settings"
2. Scan "Minimum length setting"
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings"

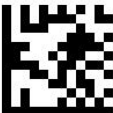
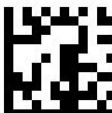
### 2.5.7 Code 128 settings

	
Code 128 on (default)	Code 128 Off
	
Enable Code 128 Check Character (default)	Disable Code 128 Check Character

### 2.5.8 Code 128 length setting

**OPMERKING:**

 If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.





	
Minimum length setting	Maximum length setting

**Example**


Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.



1. Scan "Startup Settings"
2. Scan "Minimum length setting"
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings"

### 2.5.9 Code 93 settings

	
Code 93 On (default)	Code 93 Off
	
Enable Code 93 Check Character (default)	Disable Code 93 Check Character

### 2.5.10 Code 93 Length Setting

	<p><b>OPMERKING:</b> If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.</p>
---	--

	
Minimum length setting	Maximum length setting





**Example**

Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.

1. Scan "Startup Settings"
2. Scan "Minimum length setting"
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings"






**2.5.11 Codabar Settings**

	
Codabar on (default)	Codabar Off
	
Transmit Codabar start and stop characters	Do not Transmit Codabar start and stop characters (default)

**2.5.12 Codabar Length Setting**

**OPMERKING:**

 If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.







	
Minimum length setting	Maximum length setting

**Example**

Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.


1. Scan "Startup Settings" barcode
2. Scan "Minimum length setting" barcode
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings".



### 2.5.13 Interleave 2 of 5 (ITF5) setting

	
ITF5 on (default)	ITF5 off
	
Enable ITF25 check character (default)	Disable ITF25 Check Character
	
Transmit ITF25 Check Character	Do not Transmit ITF25 Check Charcter (default)

### 2.5.14 ITF25 length setting

**OPMERKING:**

 If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.

	
Minimum length setting	Maximum length setting

**Example**

Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.

1. Scan "Startup Settings" barcode
2. Scan "Minimum length setting" barcode
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings".

---

## **3. Appendix**

### **3.1 Appendix 1 Data code table**




#### **3.1.1 Appendix 2 Code system support list**


### 3.1.2 Appendix 3 Control Characters Table



### 3.1.3 Appendix 4 ASCII Code table



Hexadecimal	Decimal	ASCII	Function Key Mapping	
			Ctrl Char	Alt+Unicode
00	0	Null	Ctrl+@	Alt + 000
01	1	Home	Ctrl+A	Alt + 001
02	2	End	Ctrl+B	Alt + 002
03	3	Up Arrow	Ctrl+C	Alt + 003
04	4	Down Arrow	Ctrl+D	Alt + 004
05	5	Left Arrow	Ctrl+E	Alt + 005
06	6	Right Arrow	Ctrl+F	Alt + 006
07	7	Null	Ctrl+G	Alt + 007
08	8	 Backspace	Backspace	Alt + 008
09	9	 TAB	TAB	Alt + 009
0A	10	Null	Ctrl+J	Alt + 010
0B	11	Null	Ctrl+K	Alt + 011
0C	12	Null	Ctrl+L	Alt + 012


0D	13	Enter	Enter	Enter
0E	14	Page Up	Ctrl+N	Alt + 014
0F	15	Page Down	Ctrl+O	Alt + 015




Hexadecima 	Decimal	ASCII	
20	32	SPACE	
21	33	!	
22	34	"	

23	35	#	
----	----	---	---

Hexadecimal	Decimal	ASCII	
24	36	\$	
25	37	%	





26	38	&	
27	39	'	




Hexadecimal	Decimal	ASCII	
28	40	(	


29	41	)	
2A	42	*	
2B	43	+	



Hexadecimal	Decimal	ASCII
-------------	---------	-------






2C	44	,	
2D	45	-	
2E	46	.	
2F	47	/	




Hexadecimal	Decimal	ASCII	
30	48	0	
31	49	1	
32	50	2	

33	51	3	
----	----	---	---





Hexadecimal	Decimal	ASCII	
34	52	4	
35	53	5	




36	54	6	
37	55	7	


Hexadecima I	Decimal	ASCII	
38	56	8	



39	57	9	
3A	58	:	
3B	59	;	

Hexadecimal	Decimal	ASCII
-------------	---------	-------



3C	60	<	
3D	61	=	
3E	62	>	
3F	63	?	


Hexadecimal	Decimal	ASCII	
40	64	@	
41	65	A	
42	66	B	




43	67	C	
----	----	---	---

Hexadecimal	Decimal	ASCII	
44	68	D	
45	69	E	










46	70	F	
47	71	G	


Hexadecimal	Decimal	ASCII	
48	72	H	



49	73	I	
4A	74	J	
4B	75	K	

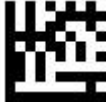

Hexadecima I	Decimal	ASCII
-----------------	---------	-------


4C	76	L	
4D	77	M	
4E	78	N	
4F	79	O	




Hexadecima I	Decimal	ASCII	
50	80	P	
51	81	Q	
52	82	R	

53	83	S	
----	----	---	---





Hexadecimal	Decimal	ASCII	
54	84	T	
55	85	U	

56	86	V	
57	87	W	




Hexadecimal	Decimal	ASCII	
58	88	X	


59	89	Y	
5A	90	Z	
5B	91	[	



Hexadecimal	Decimal	ASCII
-------------	---------	-------




5C	92	\	
5D	93	]	
5E	94	^	
5F	95	-	






Hexadecimal	Decimal	ASCII	
60	96	,	
62	97	a	
62	98	b	





63	99	c	
----	----	---	---




Hexadecima 	Decimal	ASCII	
64	100	d	
65	101	e	


66	102	f	
67	103	g	
Hexadecimal	Decimal	ASCII	
68	104	h	



69	105	i	
6A	106	j	
6B	107	k	



Hexadecimal	Decimal	ASCII
-------------	---------	-------


6C	108	l	
6D	109	m	
6E	110	n	
6F	111	o	

Hexadecimal	Decimal	ASCII	
70	112	p	
71	113	q	
72	114	r	




73	115	s	
----	-----	---	---

Hexadecimal	Decimal	ASCII	
74	116	t	
75	117	u	





76	118	v	
77	119	w	

Hexadecimal	Decimal	ASCII	
78	120	x	



79	121	y	
7A	122	z	
7B	123	{	

Hexadecimal	Decimal	ASCII
-------------	---------	-------

7C	124		
7D	125	}	
7E	126	~	
7F	127	Delete	

## 4. Appendix D – Function Key Table



Insert



Delete



Home



End



Up Arrow



Down

Arrow



Left Arrow



Right

Arrow

## 5. Appendix D – Function Key Table



Shift



ESC



Page Up

Page  
Down

F5



F6

## 1. Appendix D – Function Key Table



F5



F6



F7



F8

