

User Manual

DT3420



Barcodescanner – DT3420



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Datum : 28-1-2024

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.

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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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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

 DEFAULT	 FFFF6A
Startup settings (default)	Exit Settings

2.1.2 Restore factory default settings

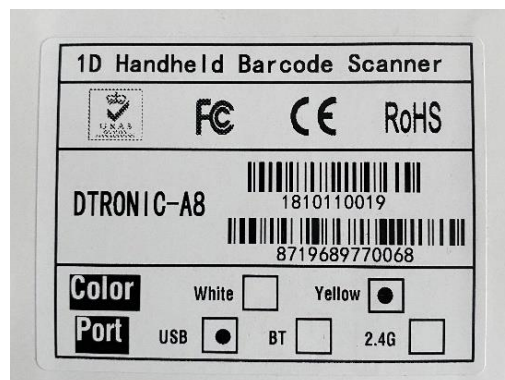
 %%SpecCode39
Restore factory settings

2.1.3 Product User Settings






	
Save user default settings	Restore user default settings

2.2 Pairing bluetooth

1. Press the button on the scanner, the scanner turns on and a green light appears.
2. Connect the USB connector to the computer or laptop, wait a few moments for the computer to find and actually see it.
3. At the bottom of the bar, right-click on the bluetooth icon.
4. Choose: Join PAN.
5. Put the scanner in connection mode, by holding down the scan button for 8 seconds.
6. Choose: Add device to PAN.
7. Computer finds the scanner as keyboard and is now in the list of connected devices.
8. Once again, put the scanner in connection mode by holding down the button for 8 seconds.
9. The scanner connects and everything works.
10. Open a WORD file and scan the barcode below to test.
11. Check that the number below also appears in WORD.



2.3 Wireless

	
Bluetooth HID Mode	Quick Pair
	
Bluetooth SPP Mode	Bluetooth BLE Mode
	
Bluetooth BLE Mode	Android Input Method
	
USB-Virtual COM Port	Enable Long press to enter Bluetooth HID Mode Pairing
	
Disable Long press to enter Bluetooth HID Mode Pairing	Set custom Bluetooth device name
	
Query Bluetooth Name	

2.3.1 Bluetooth name

First scan the "Bluetooth name setting" and then scan another barcode that becomes the Bluetooth name of this scanner.

**NOTE:**

The longest Bluetooth name can be 16 bytes. If the Bluetooth barcode is more than 16 bytes, the Bluetooth takes only the first 16 bytes as the Bluetooth name.

**NOTE:**

Full Bluetooth name format, including: Bluetooth name + protocol type, you can only change the Bluetooth name. After you change the Bluetooth name, all Bluetooth names with different protocol type will be changed at the same time. For example, you can change the Bluetooth name in "HID mode" to "Scanner", then the Bluetooth name becomes "ScannerHID". In SPP and BLE protocol, this is "ScannerSPP" and "ScannerBLE".

HID coupling step 1:

1. After activation, the green light of the scanner always remains on;
2. Scan "Enter Setting" >> "Pair Mode" >> "Bluetooth HID Mode" >> "Exit Setting."
3. Now green remains on and two blue lights flash alternately.
4. When the blue and green lights are on and the buzzer sounds, pairing is successful.

HID pairing step 2:

1. After activation, the green light of the scanner always remains on;
2. Press the button for 8S.
3. Now green remains on and two blue lights flash alternately.
4. When the blue and green lights are on and the buzzer sounds, pairing is successful.

SPP pairing step:

1. After activation, the green light of the scanner always remains on;
2. Scan "Enter Setting" >> "Pair Mode" >> "Bluetooth SPP Mode" >> "Exit Setting."
3. Now green remains on and two blue lights flash alternately.
4. When the blue and green lights are on and the buzzer sounds, pairing is successful.









BLE pairing step:

1. After activation, the green light of the scanner always remains on;
2. Scan "Enter Setting" >> "Pair Mode" >> "Bluetooth BLE Mode" >> "Exit Setting"
3. Now green remains on and two blue lights flash alternately.
4. When the blue and green lights are on and the buzzer sounds, pairing is successful.

**NOTE:**

Double-clicking the button during connection exits "Pairing Mode"; if the pairing is not established within a minute, "Pairing Mode" exits.




2.3.2 Led

 B66771	 B66770
Enable Aimer	Disable Aimer
 B66892	 B66891
Enable Illumination	Disable Illumination
 B66781	 B66780
Always off	Always on
 B66780	 FFFFFD
Blink test mode	Disable blink test mode




2.3.3 Level lighting

 ADC960	 ADC961
1	2
 ADC962	
3	

2.3.4 Beeper Duration

 B6AE620	 B6AE640
Short	Normal
 B6AE680	 B6AE6120
2.7Khz	Mute

2.3.5 Beeper settings

 %%SpecCode97	 %%SpecCode96
Volume set to High (50%) (default)	Volume set to midrange (25%)
 %%SpecCode95	
Volume set to bass (12.5%)	

2.3.6 Set the beep switch

 %%SpecCode95	 %%SpecCode94
Open (default)	Close

2.3.7 Power on beep switch

 %%SpecCode95	 %%SpecCode94
Open (default)	Close


2.3.8 Read success beep switch

 %%SpecCode95	 %%SpecCode94
Open (default)	Close

2.4 Reading mode settings


2.4.1 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.

 TRIGMAN
Level trigger mode




2.4.2 Continuous mode (default)

When the reading setting code is switched to this mode, it enters the continuous reading state. In this mode, the "repeat read switch" can be used to prevent the same barcode from being read more than once.

 TRIGPRE
Continuous mode (default)

2.4.3 Pulse trigger mode

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

 TRIGMAN	 B67A61
Pulse trigger mode	High sensitivity
 B67A64	
Low sensitivity	

2.4.4 Auto Scan mode

 TRIGPRE	 7EFD61
Auto scan	Delay 50ms
 7EFD62	 7EFD66
Delay 100ms	Delay 300ms

2.4.5 Code reading timeout

 B6AE620	 B6AE6200
30sec	300sec
 B6AE6160	
2400sec	

2.4.6 One read timeout

One time reading timeout time, the unit is 0.1 seconds. The default value is 30 (3 seconds), when set to 0, it means that the device is always in the reading state, and the time range can be set: 0~999.

 B6AE620	 B6AE6200
Short time (3s)	In time (7s)
 B6AE6160	
Long time (10s)	

Valid only in "Level Trigger Mode" and "Pulse Trigger Mode".







2.5 Communication settings





2.5.1 Communication settings

	
USB HID (default)	USB serial port
	
USB CDC	Enable virtual keyboard

2.5.2 USB keyboard


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

	 %%SpecCode44
Nederlands	Italian
 %%SpecCode43	 %%SpecCode43
Spanish (Brazil)	Portuguese
 %%SpecCode48	 %%SpecCode42
Portuguese (Brazil)	French
 %%SpecCode41	
German (Austria)	Turkish Q

	
Turkish F	English (UK)
	
Japanese	German (Switzerland)
	
French (Belgium)	America


2.5.3 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	

2.5.4 Set USB keyboard sending speed

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


Set USB keyboard sending speed

Setting the USB keyboard to send speed of 50ms can be set by reading the following barcodes in order.

1. Read "Startup Settings"
2. Read the "Set USB keyboard send speed" setting code
3. Read data code: "5" "0" (see data code table)
4. Read "Save" (see data code table)
5. Read "Exit Settings"

2.5.5 Control Characters

Specific reference to the control character table, only the data content of the barcode is converted.

	
Off (default)	Control + ASCII mode
	
Alt + Keypad mode	

2.6 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.

2.6.1 Hide 1 character

	
Hide 1 from start	Hide 1 from the end

2.6.2 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)

2.6.3 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"


Customized prefixes

2.6.4 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)

2.6.5 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"



2.6.6 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.

 <p>%%SpecCode9F</p>	 <p>%%SpecCode9C</p>
No terminator	Enter (default)
 <p>%%SpecCode9D</p>	 <p>%%SpecCode9E</p>
Line Feed (Down)	Carriage return + Line feed (Enter+Down)
 <p>%%SpecCodeA2</p>	
Tab	ETX

2.6.7 CTRL + X


Non- printable ASCII control characters			Keyboard Control + ASCII (CTRL+X) Mode		
DEC	HEX	Char	Control + X Mode Off	Windows Mode Control + X	
				Mode On	CTRL + X function
0	00	NUL		CTRL+ @	
1	01	SOH	NP Enter	CTRL+ A	Select all
2	02	STX	Caps Lock	CTRL+ B	Bold
3	03	ETX	ALT Make	CTRL+ C	Copy

4	04	EOT	ALT Break	CTRL+ D	Bookmark
5	05	ENQ	CTRL Make	CTRL+ E	Center
6	06	ACK	CTRL Break	CTRL+ F	Find
7	07	BEL	Enter / Ret	CTRL+ G	
8	08	BS		CTRL+ H	History
9	09	HT	Tab	CTRL+ I	Italic
10	0A	LF		CTRL+ J	Justify
11	0B	VT	Tab	CTRL+ K	hyperlink
12	0C	FF	Delete	CTRL+ L	list, left align
13	0D	CR	Enter / Ret	CTRL+ M	
14	0E	SO	Insert	CTRL+ N	New
15	0F	SI	ESC	CTRL+ O	Open
16	10	DLE	F11	CTRL+ P	Print
17	11	DC1	Home	CTRL+ Q	Quit
18	12	DC2	PrtScn	CTRL+ R	
19	13	DC3	Backspace	CTRL+ S	Save

20	14	DC4		CTRL+ T	
21	15	NAK	F12	CTRL+ U	
22	16	SYN	F1	CTRL+ V	Paste
23	17	ETB	F2	CTRL+ W	
24	18	CAN	F3	CTRL+ X	
25	19	EM	F4	CTRL+ Y	
26	1A	SUB	F5	CTRL+ Z	
27	1B	ESC	F6	CTRL+ [
28	1C	FS	F7	CTRL+ \	
29	1D	GS	F8	CTRL+]	
30	1E	RS	F9	CTRL+ ^	
31	1F	US	F10	CTRL+ -	
127	7F	␣	NP Enter		




2.6.8 Case output settings

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



 <p>%%SpecCodeA5</p>	 <p>%%SpecCodeA6</p>
Normal output (default)	Convert Case
 <p>%%SpecCodeA4</p>	 <p>%%SpecCodeA3</p>
Convert all to Uppercase	Convert All to lowercase

2.6.9 Data output settings

OPMERKING:
The prefix and suffix are not processed, and the prefix and suffix are output normally.

 B68E61	 AC8760
Raw data output (default)	Front-end data output
 B69E61	 AC8761
Intermediate data output	Back-end data output
 B6BE61	
Start and end data output	

2.6.10 Pre/Post data length setting



 67EE61	 67EE6255
Pre-segment data length setting	Back-end data length setting

2.7 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.



2.7.1 1D all symbologies

 FFFEFB	 FFFEFA
Enable	Disable



2.7.2 2D all symbologies

 FFFEF9	 FFFEF8
Enable	Disable



2.7.3 QR mirror code

 A86761	 A86760
Enable	Disable



2.7.4 Inverse barcode

 VIDREV0	 VIDREV1
Decode regular only	Decode inverse only



2.7.5 Data matrix mirror code

 A7F7D1	 A7F7D0
Enable	Disable





2.7.6 Mirror Code for all symbologies



 A6D871	 A6D870
Enable	Disable

2.7.7 All barcodes

 FFFEFD	 FFFEFC
Close all barcodes	Turn on all barcodes

2.7.8 EAN8 Settings




 6687A1	 6687A0
EAN8 on (default)	EAN8 off
 6DF761	 6DF760
Enable EAN8 transmission Check Character (default)	Disable EAN8 transmit Check Character

 6DB781	 6DB780
Convert EAN8 to EAN13	Do not Convert EAN8 to EAN13 (default)







2.7.9 Code 11 Settings

 666791	 666790
Enable	Disable
 6E67B0	 6E67B1
1 check bit	2 check bits
 6DD791	 6DD790
Transmit check bit	Not transmit check bit



2.7.10 Add-on code setting

 678791	 678790
Adaptive UPC/EAN add-on codes	Only Decode UPC/EAN Add-on codes
 678790	
Ignore UPC/EAN add-on codes (default)	





2.7.11 EAN 13 settings



 668771	 668770
EAN13 on (default)	EAN13 off
 6DF781	 6DF780
Enable EAN13 transmission Check Character (default)	Disable EAN13 transmission checks
 6DF781	 6DF780
Transmit EAN13 System Character (default)	Do not Transmit EAN13 System Character

2.7.12 HANXIN







 8D9771	 8D9770
Enable	Disable

2.7.13 UPC-A settings



 6DB7D1	 6DB7D0
Transmit UPC-A check character (default)	Do not Transmit UPC-A check character
 6DB7A1	 6DB7A0
Convert UPC-A to EAN13 (default)	Do not Convert UPC-A to EAN13

 6687C1	 6687C0
Enable	Disable



2.7.14 UPC-E settings



 668761	 6677C0
UPC-E on (default)	UPC-E Off
 6DB7C1	 6DB7C0
Transmit UPC-E Check Character (default)	Do no Transmit UPC-E transmission Check Character
 6DB7B1	 6DB7B0
Extended to 12 bits	Disable to 12 bits

2.7.15 UPCE













 668761	 668760
Enable	Disable

2.7.16 EAN/UPC



 6677C1	 6677C0
Enable	Disable

 ACD861	 ACD860
Normal and inverse	Normal baroce







2.7.17 Code 39 Settings

 667771	 667770
Code 39 on (default)	Code 39 off
 9F6862	 9F6861
Enable Code 39 Check Character	Disable Code 39 Check Character (default)
 9F6860	 9F6861
Transmit Code 39 Check Character	Do not Transmit Code 39 Check Character (default)
 9F6781	 9F6780
Transmit Code 39 start and stop characters	Do not Transmit Code 39 start and stop characters (default)
 6687D1	 6687D0
Full ASCII On	Full ASCII Off (default)
 A88881	 A88880
Normal and inverse	Normal





2.7.18 Code 32 settings

 6687B1	 6687B0
Convert Code39 to Code32	Do not Convert Code39 to Code32 (default)









2.7.19 Code 128 settings

 667791	 667790
Code 128 on (default)	Code 128 Off
 A878B0	 A878B1
Normal baroce	Normal and inverse
 ACE781	 ACE780
Transmit Code 128 Check Character	Do not Transmit Code 128 Check Character (default)



2.7.20 Code 93 settings

 667781	 667780
Code 93 On (default)	Code 93 Off
 A88861	 A88860
Normal and inverse	Normal baroce



2.7.21 Codabar Settings

 6677A1	 6677A0
Codabar on (default)	Codabar Off
 6DD7D1	 6DD7D0
Transmit Codabar start and stop characters	Do not Transmit Codabar start and stop characters (default)
 9EF880	 9EF882
Not check	Enable check transmit check bit
 A888C0	 A888C1
Normal barcode	Normal and inverse



2.7.22 Codablock A

 8CA761	 8CA760
Enable	Disable



2.7.23 Codablock F

 8CA771	 8CA770
Enable	Disable



2.7.24 GS1 Databar Limited

 66A7A1	 66A7A0
Enable	Disable



2.7.25 GS1 Databar omnidirectional

 66A791	 66A790
Enable	Disable



2.7.26 GS1 Databar Expanded

 66A7B1	 66A7B0
Enable	Disable










2.7.27 DOT_CODE

 A7F771	 A7F770
Enable	Disable



2.7.28 Composite

 A66761	 A66760
Enable	Disable






2.7.29 Data matrix Code

 66B791	 66B790
Enable	Disable
 66B781	 66B780
Enable Inverse DM	Disable Inverse DM
 6667B1	6667B0
2 of 5 enable	2 of 5 disable
 66B7D0	 66B7D1
Matrix 2 of 5 check bit enable	Matrix 2 of 5 check bit disable
 6DE781	 6DE780
Output matrix 2 of 5 check bit	Not output matrix 2 of 5 check bit

2.7.30 MSI

 668781	 668780
Enable	Disable



2.7.31 QR



 66C781	 66C780
Enable	Disable
 66C791	 66C790
Enable inverse QR	Disable inverse QR
 A6E760	 A6E761
Enable QR code URL link	Disable QR code URL link

2.7.32 Micro QR code



 66C7B1	 66C7B0
Enable	Disable
 66C7C1	 66C7C0
Inverse micro QR	Disable inverse micro QR

2.7.33 PDF417



 666761	 666760
Enable	Disable

 A8D860	 A8D861
Normal baroce	Normal and inverse



2.7.34 Micro PDF417

 66A7D1	 66A7D0
Enable	Disable



2.7.35 Pharmacode

 AF7771	 AF7770
Enable	Disable



2.7.36 RSS-Expanded

 66A7B1	 66A7B0
Enable	Disable



2.7.37 RSS-Limited

 66A7A1	 66A7A0
Enable	Disable



2.7.38 RSS-14

 66A791	 66A790
Enable	Disable



2.7.39 Trioptic Code

 669781	 669780
Enable	Disable



2.7.40 Telepen

 6667D1	 6667D0
Enable	Disable









2.7.41 Straight 2 of 5 Industrial

 667761	 667760
Enable	Disable



2.7.42 Maxicode

 66C7A1	 66C7A0
Enable	Disable

2.7.43 Interleave 2 of 5 (ITF5) setting

 6677B1	 6677B0
ITF5 on (default)	ITF5 off
 9EF862	 9EF860
Enable ITF25 check character (default)	Disable ITF25 Check Character
 9EF861	 9EF860
Transmit ITF25 Check Character	Do not Transmit ITF25 Check Charcter (default)
 A888A0	 A888A1
Normal baroc	Normal and inverse

2.7.44 Airline 2 of 5


 6667A1	 6667A0
Enable	Disable











2.7.45 Aztec code


 66C761	 66C760
Enable	Disable
 66C771	 66C770
Enable inverse Aztec	Disable inverse Aztec

3. Appendix










3.1.1 Control Character Table












Dec	ASCII	0	1	2	3	4	Programming Barcode
1	SOH	NULL	Home	Ctrl+A	Alt+001		
2	STX	Ctrl+B	End	Ctrl+B	Alt+002	Cap Lock	
3	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003	Right Arrow	
4	EOT	* 1	Down Arrow	Ctrl+D	Alt+004	Up Arrow	
5	ENQ	* 2	Left Arrow	Ctrl+E	Alt+005	NULL	
6	ACK	* 3	Right Arrow	Ctrl+F	Alt+006	NULL	
7	BEL	* 4	Shift+Tab	Ctrl+G	Alt+007	Enter	
8	BS	Back Space	Back Space	Back Space	Alt+008	Left Arrow	
9	HT	Tab	Tab	Tab	Alt+009	Tab	



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	NAK	F8	F12	Ctrl+U	Alt+021	F12	
22	SYN	F9	F1	Ctrl+V	Alt+022	F1	
23	TB	F10	F2	Ctrl+W	Alt+023	F2	
24	CAN	F11	F3	Ctrl+X	Alt+024	F3	
25	EM	F12	F4	Ctrl+Y	Alt+025	F4	
26	SUB	NULL	F5	Ctrl+Z	Alt+026	F5	
27	Esc	Esc	F6	Ctrl+[Alt+027	F6	
28	FS	ALT+028	F7	Ctrl+\	Alt+028	F7	
29	GS	ALT+029	F8	Ctrl+]	Alt+029	F8	
30	RS	NULL	F9	Ctrl+^	Alt+030	F9	
31	US	NULL	F10	Ctrl+_	Alt+031	F10	












3.1.2 Visible Characters












Deci mal Data	ASCII	Programming Barcode
32	Space	
33	!	
34	"	
35	#	
36	\$	
37	%	
38	&	
39	'	
40	(












41)	
42	*	
43	+	
44	,	
45	-	
46	.	
47	/	
48	0	
49	1	
50	2	
51	3	


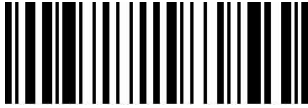









52	4	
53	5	
54	6	
55	7	
56	8	
57	9	
58	:	
59	;	
60	<	
61	=	
62	>	












63	?	
64	@	
65	A	
66	B	
67	C	
68	D	
69	E	
70	F	
71	G	
72	H	
73	I	

74	J	
75	K	
76	L	
77	M	
78	N	
79	O	
80	P	
81	Q	
82	R	
83	S	
84	T	

85	U	
86	V	
87	W	
88	X	
89	Y	
90	Z	
91	[
92	\	
93]	
94	^	
95	-	

96	,	
97	a	
98	b	
99	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	
199	Ç	

231	ç	
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