

User Manual

DT3330



Barcodescanner – DT3330



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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.

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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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Kind regards, team Dtronic

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INHOUDSOPGAVE

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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

Startup settings (default)	Exit Settings


2.1.2 Restore factory default settings











2.1.3 Read version number



2.1.4 Product User Settings

 FFFFFFF	
Save user default settings	Restore user default settings

2.1.5 Led

 B66771	 B66770
Enable Aimer	Disable Aimer
 B66781	 B66780
Enable Illumination	Disable Illumination
 B66892	 B66893
Always off	Always on
 FFFFFC	 FFFFFD
Blink test mode	Disable blink test mode



2.1.6 Level lighting

 ADC960	 ADC961
1	2
 ADC962	
3	



2.1.7 Beeper Duration

 7EA7A1	 7EA7A0
Short	Normal
 7EB9B7	 7EB9B0
2.7Khz	Mute

2.1.8 Set the beep switch

 B667D0	 B667D1
Open (default)	Close

2.1.9 Power on beep switch

 B667D0	 B667D1
Open (default)	Close

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 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.

 TRIGMAN
Continuous mode (default)

2.2.3 Pulse trigger mode

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

 B67A61	 B67A64
Low sensitivity	High sensitivity

2.2.4 Auto Scan mode

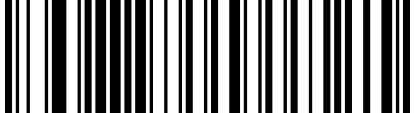






 TRIGPRE	 7EFD61
Auto scan	Delay 50ms
 7EFD62	 7EFD66
Delay 100ms	Delay 300ms

2.2.5 Code reading timeout

 B6AE620	 B6AE200
30sec	300sec
 7BEA63	
2400sec	


2.3 Communication settings


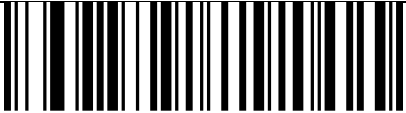

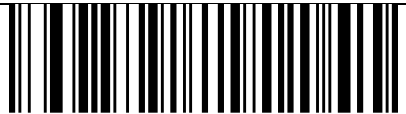
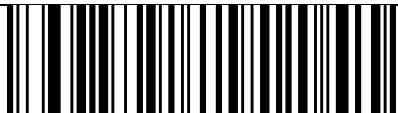
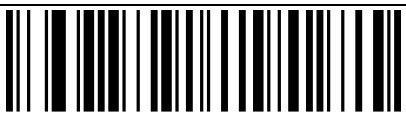
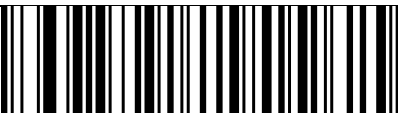
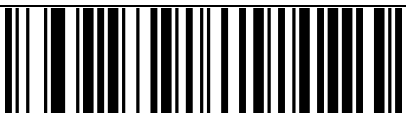
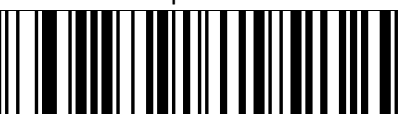

2.3.1 Communication settings

 USBKBD	 SERIAL
USB HID (default)	USB serial port
 FFBFFF	 USBMAC
RS-232 serial port	Mac
 USBCDC	 A6A761
USB CDC	Enable virtual keyboard
 A6A760	
Disable virtual keyboard	



2.3.2 USB keyboard






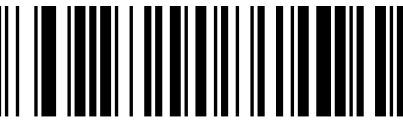

Portuguese (Brazil) cannot output "?" and "/" .

	 7C8A64
Nederlands	Italian

 7C8A65	
Spanish (Brazil)	Portuguese
	 7C8A62
Portuguese (Brazil)	French
 7C8A63	 7C8A612
German (Austria)	Turkish Q
 7C8A612	 7C8A61
Turkish F	English (UK)
 7C8A610	 7C8A63
Japanese	German (Switzerland)
 7C8A60	 7C8A66
French (Belgium)	America



2.3.3 Serial communication settings

 7C6790	 7C6791
Data bit 7	Data bit 8

 7C67A1	 7C67A0
Stop bit 1	Stop bit 2
 7C69B0	 7C69B1
Check bit O	Check bit S
 7C69B2	 7C69B3
Check bit E	Check bit M
 7C69B4	
Check bit N	

2.3.4 Serial port baud rate setting

 7BEA64	 7BEA65
Baud rate 4800	Baud rate 9600 (default)
 7BEA67	 7BEA68
Baud rate 19200	Baud rate 38400

 7BEA69	 7BEA610
Baud rate 57600	Baud rate 115200

2.3.5 Serial port output



 A6C8A2	 A6C8A1
UTF-8	GBK
 A6C8A0	
Serial output according to barcode content	

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 Hide 1 character

 B68E61	 A88E61
Hide 1 from start	Hide 1 from the end

2.4.2 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.

 A6A7D1	 A6A7D0
Enable	Disable (default)

2.4.3 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

2.4.4 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.

<p>7CC7D1</p>	<p>7CC7D0</p>
Enable	Disable (default)
<p>Clear all custom suffixes</p>	<p>B68E60</p>
	Output all

2.4.5 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)




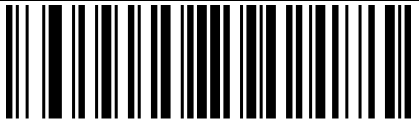


1. Read "Startup Settings"
2. Read the "Custom Suffix" setting code
3. Check the ASCII code of the character "a": the ASCII code of "a" is "0x61" (see ASCII code table)
4. Read data code: "6" "1" (see data code table)
5. Read "Save" (see data code table)
6. Read "Exit Settings"

<p>B68E624</p>
Custom suffixes

2.4.6 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.

 RETURN0	 RETURN3
No terminator	Enter (default)
 RETURN2	 RETURN3
Line Feed (Down)	Carriage return + Line feed (Enter+Down)
 RETURN4	 RETURN5
Tab	ETX

2.4.7 CTRL + X




 ABF771	 ABF770
Enable	Disable
 A867D1	 A867D0
Transmit non visible character	Don't transmit non visible character

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	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		

2.4.8 Case output settings

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



 A68860	 A68860
Normal output (default)	Convert Case
 A68862	 A68861
Convert all to Uppercase	Convert All to lowercase

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 1D all symbologies

 FFFEFB	 FFFEFA
Enable	Disable



2.5.2 2D all symbologies

 FFFEF9	 FFFEF8
Enable	Disable



2.5.3 QR mirror code

 A86761	 A86760
Enable	Disable



2.5.4 Inverse barcode

 VIDREV0	 VIDREV1
Decode regular only	Decode inverse only



2.5.5 Data matrix mirror code

 A7F7D1	 A7F7D0
Enable	Disable

2.5.6 Mirror Code for all symbologies

 A6D871	 A6D870
Enable	Disable



2.5.7 All barcodes

 FFFEFC	 FFFEFD
Close all barcodes	Turn on all barcodes

2.5.8 EAN8 Settings

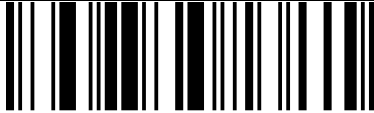

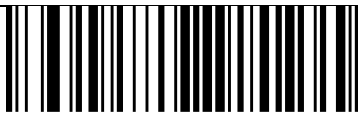
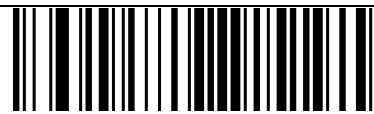
 6687A1	 6687A0
EAN8 on (default)	EAN8 off
 6DF761	 6DF760
Enable EAN8 transmission Check Character (default)	Disable EAN8 transmit Check Character
 6DB781	 6DB780
Convert EAN8 to EAN13	Do not Convert EAN8 to EAN13 (default)

2.5.9 Code 11 Settings



 666791	 666790
Enable	Disable

 6E67B0	 6E67B1
1 check bit	2 check bits
 6DD791	 6DD790
Transmit check bit	Not transmit check bit





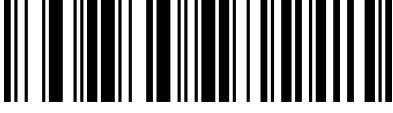
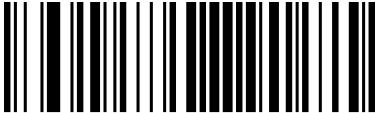

2.5.10 EAN 13 settings

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

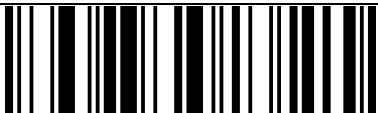

2.5.11 HANXIN

 8D9771	 8D9770
Enable	Disable

2.5.12 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
 6DB771	 6DB770
Output digital	Not output digital

2.5.13 UPC-E settings

 668761	 668760
UPC-E on (default)	UPC-E Off

 6DB7C1	 6DB7C0
Transmit UPC-E Check Character (default)	Do no Transmit UPC-E transmission Check Character
 6DB791	 6DB790
Output header	Do not output header
 6DB7B1	 6DB7B0
Extended to 12 bits	Disable to 12 bits













2.5.14 UPCE

 668761	 668760
Enable	Disable



2.5.15 EAN/UPC

 6677C1	 6677C0
Enable	Disable
 A87861	 A87860
Normal and inverse	Normal baroce

2.5.16 Code 39 Settings

 667771	 667770
Code 39 on (default)	Code 39 Off
 9F6862	 9F6860
Enable Code 39 Check Character	Disable Code 39 Check Character (default)
 9F6861	 9F6860
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

2.5.17 Code 32 settings

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




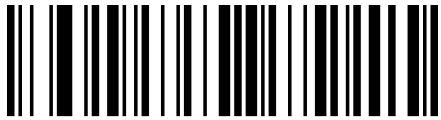




2.5.18 Code 128 settings

 667791	 667790
Code 128 on (default)	Code 128 Off
 A878B0	 8CA760
Normal baroce	Normal and inverse

2.5.19 Code 93 settings


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



2.5.20 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)
 9EF882	 9EF880
Not check	Enable check transmit check bit
 A888C0	 A888C1
Normal barcode	Normal and inverse

2.5.21 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.

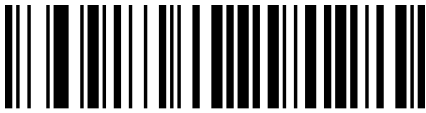

 67EE61	 67EE6255
Minimum length setting	Maximum length setting

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".



2.5.22 Codablock A

 8CA761	 8CA760
Enable	Disable

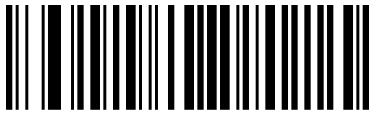

2.5.23 Codablock F

 8CA771	 8CA770
Enable	Disable

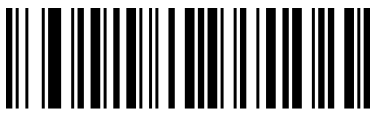

2.5.24 GS1 Databar Limited

 66A7A1	 66A7A0
Enable	Disable



2.5.25 GS1 Databar omnidirectional

 66A791	 66A790
Enable	Disable



2.5.26 GS1 Databar Expanded

 66A7B1	 66A7B0
Enable	Disable


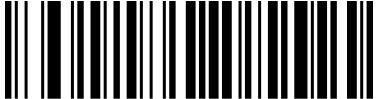


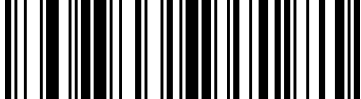





2.5.27 DOT_CODE

 A7F771	 A7F770
Enable	Disable

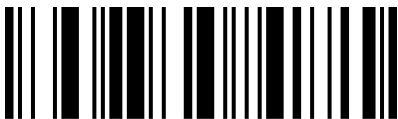

2.5.28 Composite

 A66761	 A66760
Enable	Disable

2.5.29 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

2.5.30 MSI

 668781	 668780
Enable	Disable

2.5.31 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



2.5.32 Micro QR code

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



2.5.33 PDF417

 666761	 666760
Enable	Disable
 A8D860	 A8D861
Normal baroce	Normal and inverse



2.5.34 Micro PDF417

 66A7D1	 66A7D0
Enable	Disable

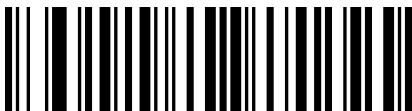
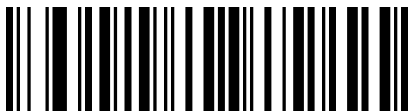
2.5.35 Pharmacode

 ACF7B1	 ACF7B0
Enable	Disable



2.5.36 RSS-Expanded

 66A7B1	 66A7B0
Enable	Disable



2.5.37 RSS-Limited

 66A7A1	 66A7A0
Enable	Disable



2.5.38 RSS-14

 66A791	 66A790
Enable	Disable

2.5.39 Trioptic Code

 669781	 669780
Enable	Disable


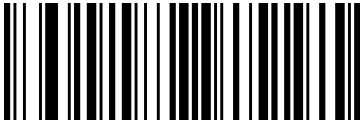
2.5.40 Telepen

 6667D1	 6667D0
Enable	Disable


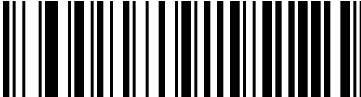

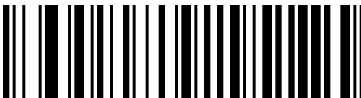




2.5.41 Straight 2 of 5 Industrial

 667761	 667760
Enable	Disable

2.5.42 Maxicode

 66C7A1	 66C7A0
Enable	Disable



2.5.43 Interleave 2 of 5 (ITF5) setting

 6677B1	 9EF860
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

2.5.44 Extra code setting

 6787D1 Enable 2 extra code	 6787D0 Disable 2 extra code
 6787C1 Enable 5 extra code	 6787C0 Disable 5 extra code
 678791 Enable all UPC-EAN with extra code	 678790 Disable all UPC-EAN with extra code

2.5.45 Airline 2 of 5

 6667A1 Enable	 6667A0 Disable
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2.5.46 Aztec code

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

3. Appendix

3.1 Appendix 1 Data code table

Barcode byte value	Barcode Type
002	UPC-E
003	EAN-8
004	UPC-A
005	EAN-13
080	CODE 39
081	CODABAR
082	INTERLEAVED 2 OF 5
083	CODE 128
084	CODE 93
091	MSI
092	CODE 11
093	AIRLINE 2 OF 5
094	MATRIX 2 OF 5
095	TELEPEN
096	UK PLESSEY
097	AIRLINE(13 DIGITS)
098	STANDARD 2 OF 5

099	TRIOPTIC
101	RSS14
102	RSS LIMIT
103	RSS EXT
104	PDF417
105	MICRO PDF417
106	DATA MATRIX
107	AZTEC
108	QR
109	MAXICODE

3.1.1 Appendix 4 ASCII Code table

Decimal	Character	Decimal	Character	Decimal	Character	Decimal	Character
000	NUL	032	SP	064	@	096	'
001	SOH	033	!	065	A	097	a
002	STX	034	"	066	B	098	b
003	ETX	035	#	067	C	099	c
004	EOT	036	\$	068	D	100	d
005	ENQ	037	%	069	E	101	e
006	ACK	038	&	070	F	102	f
007	BEL	039	`	071	G	103	g
008	BS	040	(	072	H	104	h
009	HT	041	)	073	I	105	i
010	LF	042	*	074	J	106	j
011	VT	043	+	075	K	107	k
012	FF	044	,	076	L	108	l
013	CR	045	-	077	M	109	m
014	SOH	046	.	078	N	110	n
015	SI	047	/	079	O	111	o
016	DLE	048	0	080	P	112	p

017	DC1	049	1	081	Q	113	q
018	DC2	050	2	082	R	114	r
019	DC3	051	3	083	S	115	s
020	DC4	052	4	084	T	116	t
021	NAK	053	5	085	U	117	u
022	SYN	054	6	086	V	118	v
023	ETB	055	7	087	W	119	w
024	CAN	056	8	088	X	120	x
025	EM	057	9	089	Y	121	y
026	SUB	058	:	090	Z	122	z
027	ESC	059	;	091	[	123	{
028	FS	060	<	092	\	124	|
029	GS	061	=	093	]	125	}
030	RS	062	>	094	^	126	~
031	US	063	?	095	_	127	DEL

Decimal	Character	Decimal	Character	Decimal	Character	Decimal	Character
128	€	160		192	À	224	à
129		161	ı	193	Á	225	á
130	,	162	ç	194	Â	226	â

131	f	163	£	195	Ã	227	ã
132	„	164	¤	196	Ä	228	ä
133	…	165	¥	197	Å	229	å
134	†	166	¡	198	Æ	230	æ
135	‡	167	§	199	Ç	231	ç
136	^	168	¨	200	È	232	è
137	‰	169	©	201	É	233	é
138	Š	170	ª	202	Ê	234	ê
139	‹	171	«	203	Ë	235	ë
140	Œ	172	¬	204	Ì	236	ì
141		173		205	Í	237	í
142	Ž	174	®	206	Î	238	î
143		175	ˆ	207	Ï	239	ï
144		176	°	208	Đ	240	đ
145	’	177	±	209	Ñ	241	ñ
146	‘	178	²	210	Ò	242	ò
147	”	179	³	211	Ó	243	ó
148	”	180	´	212	Ô	244	ô
149	·	181	µ	213	Õ	245	õ

150	–	182	†	214	Ö	246	ö
151	—	183	·	215	×	247	÷
152	~	184	˘	216	Ø	248	ø
153	™	185	ˆ	217	Ù	249	ù
154	š	186	˚	218	Ú	250	ú
155	›	187	»	219	Û	251	û
156	œ	188	¼	220	Ü	252	ü
157		189	½	221	Ý	253	ý
158	ž	190	¾	222	Ɔ	254	Ɔ
159	ÿ	191	˙	223	Ɔ	255	ÿ