

User Manual

DT3210



Barcodescanner – DT3210



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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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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

	
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 Led

	
Enable Aimer	Disable Aimer
	
Enable Illumination	Disable Illumination
	
Always off	Always on




2.1.5 Level lighting

	
1	2
	
3	



2.1.6 Beeper Duration

	
Short	Normal
	
2.7Khz	Mute



2.1.7 Beeper settings

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



2.1.8 Set the beep switch

	
Open (default)	Close

2.1.9 Power on beep switch

	
Open (default)	Close

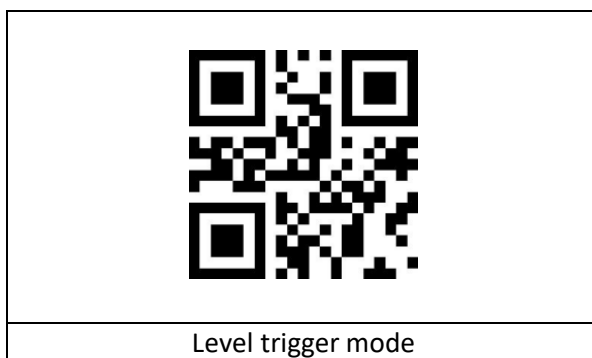
2.1.10 Read success beep switch

	
Open (default)	Close

2.2 Reading mode settings

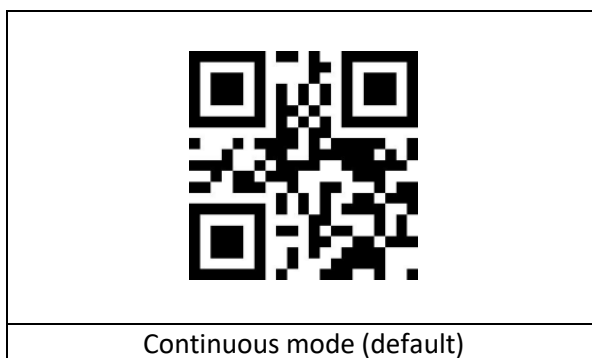
2.2.1 Level trigger mode

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.






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.







2.2.3 Pulse trigger mode

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



	
<p>Pulse trigger mode</p>	<p>High sensitivity</p>
	
<p>Low sensitivity</p>	

2.2.4 Auto Scan mode

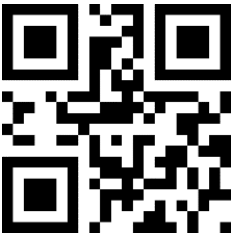


	
<p>Auto scan</p>	<p>Delay 50ms</p>
	
<p>Delay 100ms</p>	<p>Delay 300ms</p>

2.2.5 Repeat read switch

The repeat read setting is only available in continuous mode.




	
Allow repeat readings (default)	Repeat reading is not allowed

2.2.6 Code reading timeout

	
30sec	300sec
	
2400sec	

2.2.7 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.

	
Short time (3s)	In time (7s)
	
Long time (10s)	

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



2.3 Communication settings











2.3.1 Communication settings



	
USB HID (default)	USB serial port
	
RS-232 serial port	Disable virtual keyboard
	
USB CDC	Enable virtual keyboard

2.3.2 USB keyboard

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




	
Nederlands	Italian

	
Spanish (Brazil)	Portuguese
	
Portuguese (Brazil)	French
	
German (Austria)	Turkish Q
	
Turkish F	English (UK)
	
Japanese	German (Switzerland)

	
French (Belgium)	America

2.3.3 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	

2.3.4 Set USB keyboard sending speed

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






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"

2.3.5 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	

2.3.6 Serial communication settings

	
Check bit O	Check bit S
	
Check bit E	Check bit M
	
Check bit N	

2.3.7 Serial port baud rate setting




	
Baud rate 4800	Baud rate 9600 (default)

	
Baud rate 19200	Baud rate 38400
	
Baud rate 57600	Baud rate 115200

2.3.8 Serial port output

	
UTF-8	GBK
	
Serial output according to barcode content	

2.3.9 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)

2.4.2 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

2.4.3 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)

2.4.4 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"


Custom suffixes

2.4.5 Custom ID output method

The user can use Code ID to identify the barcode type and the Code ID corresponding to each barcode type is customizable. The Code ID for all barcodes is 1 character.





Close Code ID (default): Code ID is not spliced to the read string.

Code ID prefix: The Code ID is spliced before the recognition string.

Code ID suffix: The Code ID is spliced after the recognition string.

Restore the Code ID of all barcodes, including Codabar, to the default value of.

1. Read "Startup Settings"
2. Read "Clear all custom Code IDs".
3. Read "Exit Settings"

	
Disable CODE ID (default)	Code ID prefix
	
Code ID suffix	Clear all custom Code IDs

2.4.6 Customize Code ID

Please refer to the following example for how to modify the Code ID.

Modify the Code ID of Codabar (Code ID:0x61) to "Y" (hexadecimal value 0x59).






1. Read "Startup Settings"
2. Read "Custom Code ID"
3. Check the Code ID of the barcode: the Code ID of "Codabar" is "0x61" (see the list of code system support)
4. Check the ASCII code of the character "Y": the ASCII code of "Y" is "0x59" (see ASCII code table)
5. Read data code: "6" "1" "5" "9" (see data table)
6. Read "Save" (see data code table)
7. Read "Exit Settings"



2.4.7 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)	Carriage return + Line feed (Enter+Down)
	
Tab	ETX


2.4.8 CTRL + X



Non- printable ASCII control characters			Keyboard Control + ASCII (CTRL+ X) Mode		
DEC	HEX	Char	Control + X Mode Off	Windows Mode Control + X	
				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		

2.4.9 Data output settings

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

	
Raw data output (default)	Front-end data output
	
Intermediate data output	Back-end data output
	
Start and end data output	

2.4.10 Pre/Post data length setting



	
Pre-segment data length setting	Back-end data length setting

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

	
Enable	Disable



2.5.2 2D all symbologies

	
Enable	Disable







2.5.3 Inverse barcode

	
Decode regular only	Decode inverse only

2.5.4 All barcodes

	
Close all barcodes	Turn on all barcodes



2.5.5 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)

2.5.6 Code 11 Settings







	
Enable	Disable
	
1 check bit	2 check bits
	
Transmit check bit	Not transmit check bit

2.5.7 Add-on code setting

	
Adaptive UPC/EAN add-on codes	Only Decode UPC/EAN Add-on codes



	
Ignore UPC/EAN add-on codes (default)	

2.5.8 EAN 13 settings



	
EAN13 on (default)	EAN13 off
	
Enable EAN13 transmission Check Character (default)	Disable EAN13 transmission checks
	
Transmit EAN13 System Character (default)	Do not Transmit EAN13 System Character

2.5.9 ISSN Settings







--	--

	
Convert EAN-13 to ISSN	Do not Convert EAN-13 to ISSN (default)

2.5.10 ISBN setting







	
Convert EAN13 to ISBN	Do not Convert EAN13 to ISBN (default)

2.5.11 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
	

Enable	Disable
--------	---------



2.5.12 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)







2.5.13 UPCE



	
Enable	Disable

2.5.14 EAN/UPC

	
Enable	Disable


2.5.15 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)

2.5.16 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"

2.5.17 Code 32 settings


	
Convert Code39 to Code32	Do not Convert Code39 to Code32 (default)



2.5.18 Code 128 settings

	
Code 128 on (default)	Code 128 Off

2.5.19 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"



2.5.20 Code 93 settings

	
Code 93 On (default)	Code 93 Off
	
Enable Code 93 Check Character (default)	Disable Code 93 Check Character
	
Transmit Code 93 check digit	Do not Transmit Code 93 Check Digit (default)

2.5.21 Code 93 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"



2.5.22 Codabar Settings

	
Codabar on (default)	Codabar Off
	
Transmit Codabar start and stop characters	Do not Transmit Codabar start and stop characters (default)
	
Not check	Enable check transmit check bit

2.5.23 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".



2.5.24 GS1 Databar Limited

	
Enable	Disable





2.5.25 GS1 Databar omnidirectional





	
Enable	Disable

2.5.26 GS1 Databar Expanded



	
Enable	Disable

2.5.27 Data matrix Code



	
Enable	Disable
	
2 of 5 enable	2 of 5 disable

	
Matrix 2 of 5 check bit enable	Matrix 2 of 5 check bit disable
	
Output matrix 2 of 5 check bit	Not output matrix 2 of 5 check bit



2.5.28 MSI

	
Enable	Disable



2.5.29 QR

	
Enable	Disable



2.5.30 Micro QR code

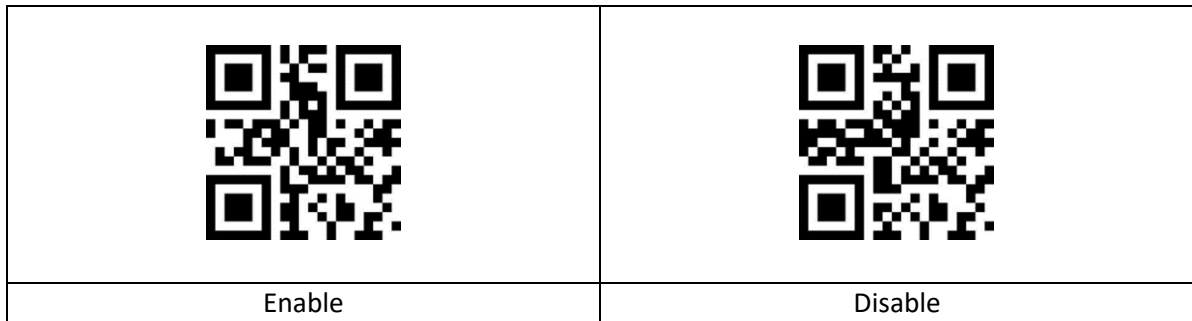
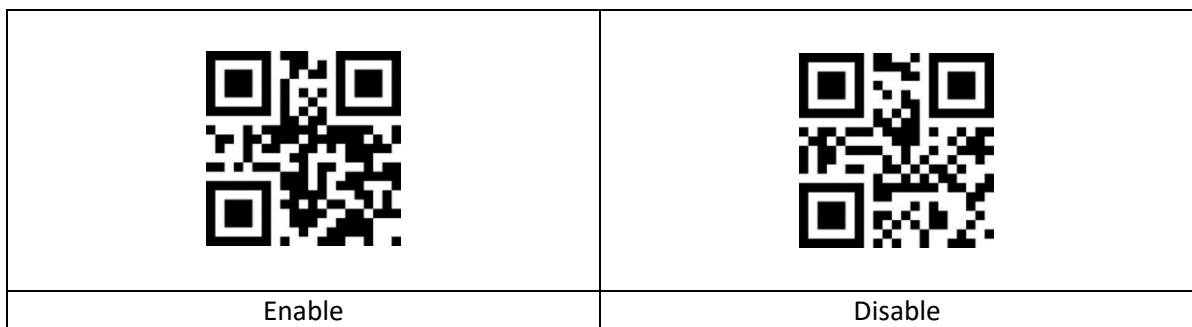
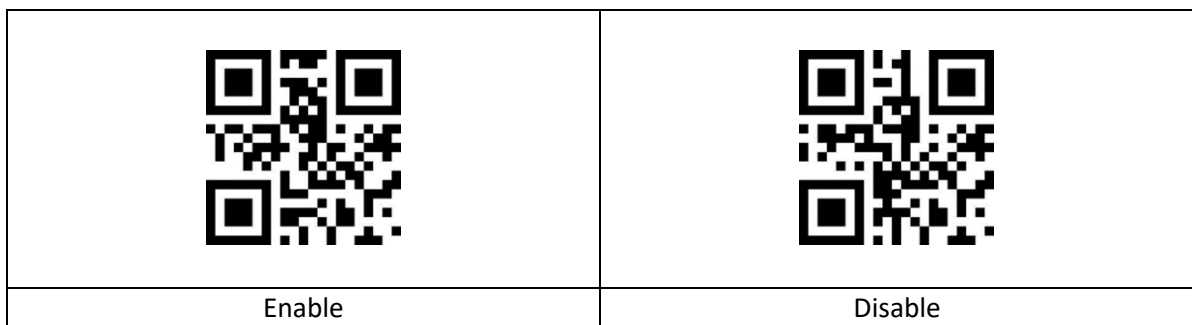
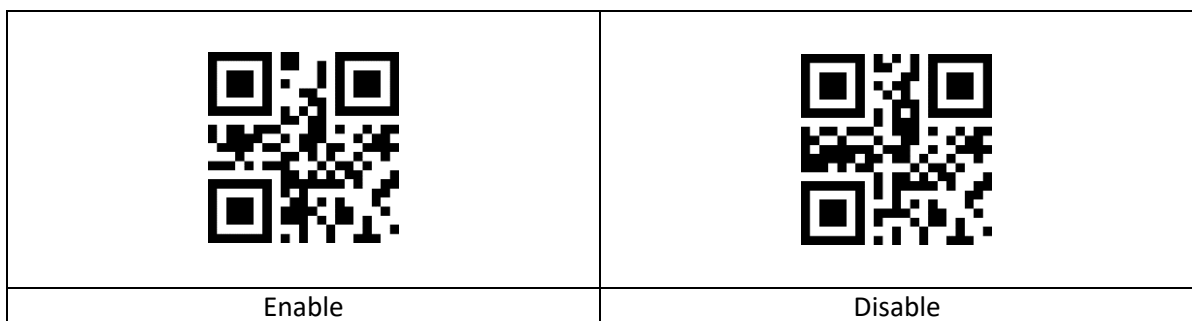
	
Enable	Disable

2.5.31 PDF417

	
Enable	Disable

2.5.32 Micro PDF417





	
Enable	Disable

2.5.33 RSS-Expanded**2.5.34 RSS-Limited****2.5.35 RSS-14****2.5.36 Straight 2 of 5 Industrial**

2.5.37 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)



2.5.38 Aztec code

	
Enable	Disable
	
Enable inverse Aztec	Disable inverse Aztec

2.5.39 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".

Appendix

2.5.40 AIM ID

Barcode Type	AIM ID	Description
Code 128	]C0	Regular Code 128 data
EAN-8	]E4	Regular EAN-8 data
EAN-13	]E0	Regular EAN-13 data
ISSN	]X5	
ISBN	]X4	
UPC-E	]E0	Regular UPC-E data
UPC-A	]E0	Regular UPC-A data
Interleaved 2 of 5	]I0	Disable Check Digit
ITF-6	]I0	Transmit Check Digit
ITF-14	]I0	Transmit Check Digit
Matrix 2 of 5	]X1	No Check Digit
Industrial 25	]S0	No special designation
Code 39	]A1	MOD 43 Check Digit, and Transmit Check Digit
Codabar	]F0	Standard package, no specific designation
Code 93	]G0	No specific designation
Code11	]H1	MOD11/MOD11, Transmit Check Digit
MSI Plessey	]M1	MOD10 , 但不Transmit Check Digit
GS1-Databar (RSS)	]e0	RSS-14, RSS-Limited, RSS-Expanded, RSS-Stacked
PDF417	]L0	1994 PDF417
Data Matrix	]d1	DM ECC 200
QR Code	]Q1	QR mode 2 (2005 symbol), no ECI
Micro PDF417	]L0	
Micro QR	]Q1	
Aztec Code	]zm	(0-9, A-C), possible AIM ID parameter (m)

2.5.41 Code ID

Barcode Type	Code ID 0 (default)	Code ID 1	Code ID 2
Code 128	j (0x6A)	B (0x42)	j (0x6A)
EAN-8	d (0x64)	D (0x44)	D (0x44)
EAN-13	d (0x64)	E (0x45)	d (0x64)
ISSN	n (0x6E)	_ (0x5F)	d (0x64)
ISBN	B (0x42)	W (0x57)	d (0x64)
UPC-E	c (0x63)	F (0x46)	E (0x45)
UPC-A	c (0x63)	G (0x47)	c (0x63)
Interleaved 2 of 5	e (0x65)	H (0x48)	e (0x65)
ITF-6	e (0x65)	H (0x49)	e (0x65)
ITF-14	e (0x65)	H (0x4A)	e (0x65)
Matrix 2 of 5	v (0x76)	Y (0x59)	m (0x6D)
Industrial 2 of 5	D (0x44)	X (0x58)	f (0x66)
Code 39 (supports Full ASCII mode)	b (0x62)	M (0x4D)	b (0x62)
Codabar	a (0x61)	O (0x4F)	a (0x61)
Code 93	i (0x69)	Q (0x51)	i (0x69)
Code 11	H (0x48)	] (0x5D)	h (0x68)
MSI Plessey	m (0x6D)	V (0x56)	g (0x67)
GS1 DataBar(RSS14)	R (0x52)	Z (0x5A)	y (0x79)
GS1 DataBar Limited	R (0x52)	[(0x5B)	{ (0x7B)

GS1 DataBar Expanded	R (0x52)	\ (0x5C)	} (0x7D)
GS1 DataBar Stacked	R (0x52)	m (0x6D)	y (0x79)
PDF417	r (0x72)	` (0x60)	r (0x72)
Data Matrix	u (0x75)	c (0x63)	w (0x77)
QR Code	Q (0x51)	a (0x61)	s (0x73)
Aztec Code	z (0x7A)	z (0x7A)	z (0x7A)
Maxicode	x (0x78)	x (0x78)	x (0x78)
Micro PDF417	R (0x52)	R (0x52)	R (0x52)
Micro QR	X (0x58)	X (0x58)	s (0x73)

2.5.42 ASCII

Hex	Decimal	Char
00	0	NUL (Null char.)
01	1	SOH (Start of Header)
02	2	STX (Start of Text)
03	3	ETX (End of Text)
04	4	EOT (End of Transmission)
05	5	ENQ (Enquiry)
06	6	ACK (Acknowledgment)
07	7	BEL (Bell)
08	8	BS (Backspace)
09	9	HT (Horizontal Tab)

0a	10	LF (Line Feed)
0b	11	VT (Vertical Tab)
0c	12	FF (Form Feed)
0d	13	CR (Carriage Return)
0e	14	SO (Shift Out)
0f	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1a	26	SUB (Substitute)
1b	27	ESC (Escape)
1c	28	FS (File Separator)
1d	29	GS (Group Separator)
1e	30	RS (Request to Send)
1f	31	US (Unit Separator)
20	32	SP (Space)

21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	\$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)
29	41	) (Right / Closing Parenthesis)
2a	42	* (Asterisk)
2b	43	+ (Plus)
2c	44	, (Comma)
2d	45	- (Minus / Dash)
2e	46	. (Dot)
2f	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7

38	56	8
39	57	9
3a	58	: (Colon)
3b	59	; (Semi-colon)
3c	60	< (Less Than)
3d	61	= (Equal Sign)
3e	62	> (Greater Than)
3f	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4a	74	J
4b	75	K
4c	76	L
4d	77	M
4e	78	N

4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[(Left / Opening Bracket)
5c	92	\ (Back Slash)
5d	93	] (Right / Closing Bracket)
5e	94	^ (Caret / Circumflex)
5f	95	_ (Underscore)
60	96	' (Grave Accent)
61	97	a
62	98	b
63	99	c
64	100	d
65	101	e

66	102	f
67	103	g
68	104	h
69	105	i
6a	106	j
6b	107	k
6c	108	l
6d	109	m
6e	110	n
6f	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7a	122	z
7b	123	{ (Left/ Opening Brace)
7c	124	| (Vertical Bar)

7d	125	} (Right/Closing Brace)
7e	126	~ (Tilde)
7f	127	DEL (Delete)

2.5.43 Check Digit

0-9



0



1



2



3



4



5



6



7



8



9

A-F



A



B



C



D



E



F

After reading numeric barcode(s), you need to scan the **Save** barcode to save the data. If you scan the wrong digit(s), you can either scan the **Cancel** barcode and then start the configuration all over again, or scan the **Delete the Last Digit** barcode and then the correct digit, or scan the **Delete All Digits** barcode and then the digits you want.

For instance, after reading the **Maximum Length** barcode and numeric barcodes "1" , "2" and "3" , you scan:

Delete the Last Digit: The last digit "3" will be removed.

Delete All Digits: All digits "123" will be removed.

Cancel: The maximum length configuration will be cancelled. And the engine is still in the setup mode.



Save



Delete the Last Digit



Delete All Digits



Cancel

Table H- 1 Common Serial Command

Function	Serial Comand
Set Baud Rate to 9600	7E 00 08 02 00 2A 39 01 A7 EA
Save the current setting to Flash	7E 00 09 01 00 00 00 DE C8
Query Baud Rate	7E 00 07 01 00 2A 02 D8 0F

After the host sends the serial port command to query the baud rate, the reading module will reply with the following information:

Return Message	Corresponding Baud Rate
02 00 00 02 C4 09 SS SS	1200
02 00 00 02 71 02 SS SS	4800
02 00 00 02 39 01 SS SS	9600
02 00 00 02 D0 00 SS SS	14400
02 00 00 02 9C 00 SS SS	19200
02 00 00 02 4E 00 SS SS	38400
02 00 00 02 34 00 SS SS	57600

Notice: SS SS are check digit.