

User Manual

DT3422



Barcodescanner – DT3422



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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

INTRODUCTION	2
1. PRODUCT	5
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
2. SYSTEM SETUP	7
2.1 System Setup	7
2.1.1 Setup code.....	7
2.1.2 Restore factory default settings	7
2.1.3 Read version number	7
2.1.4 Product User Settings.....	7
2.2 Pairing bluetooth	8
2.3 Wireless	9
2.3.1 Bluetooth name.....	9
2.3.2 Led	10
2.3.3 Beeper Duration	11
2.3.4 Beeper settings.....	11
2.4 Reading mode settings	11
2.4.1 Level trigger mode.....	11
2.4.2 Continuous mode (default)	12
2.4.3 Time display.....	12
2.4.4 Auto Scan mode	12
2.4.5 Reread time out.....	12
2.4.6 Code reading timeout.....	13
2.4.7 One read timeout	13
2.5 Communication settings.....	14
2.5.1 Communication settings.....	14
2.5.2 USB keyboard	14
2.5.3 USB keyboard sending speed	15
2.5.4 Set USB keyboard sending speed	16
2.5.5 Control Characters.....	16
2.5.6 Serial communication settings	16
2.5.7 Serial port baud rate setting.....	17
2.5.8 Serial port output	17
2.5.9 Serial port parity bit setting.....	17
2.6 Data format setting.....	18
2.6.1 Hide characters.....	18
2.6.2 Custom prefix on/off settings.....	19
2.6.3 Customized prefixes	19
2.6.4 Custom suffixes	19
2.6.5 Terminator settings	20
2.6.6 CTRL + X.....	20
2.6.7 Case output settings.....	22

2.6.8	Data output settings.....	22
2.7	Symbologies.....	23
2.7.1	1D all symbologies.....	23
2.7.2	2D all symbologies.....	23
2.7.3	Inverse barcode.....	23
2.7.4	All barcodes.....	23
2.7.5	EAN8 Settings.....	24
2.7.6	Code 11 Settings.....	24
2.7.7	EAN 13 settings.....	25
2.7.8	ISSN Settings.....	25
2.7.9	ISBN setting.....	25
2.7.10	UPC-A settings.....	26
2.7.11	UPC-E settings.....	26
2.7.12	UPCE.....	27
2.7.13	EAN/UPC.....	27
2.7.14	Code 39 Settings.....	27
2.7.15	Code 39 Length Setting.....	28
2.7.16	Code 32 settings.....	29
2.7.17	Code 128 settings.....	29
2.7.18	Code 128 length setting.....	29
2.7.19	Code 93 settings.....	30
2.7.20	Code 93 Length Setting.....	30
2.7.21	Codabar Setting.....	31
2.7.22	Codabar Length Setting.....	31
2.7.23	GS1 Databar Limited.....	32
2.7.24	GS1 Databar omnidirectional.....	32
2.7.25	GS1 Databar Expanded.....	32
2.7.26	Data matrix Code.....	32
2.7.27	MSI.....	33
2.7.28	QR.....	33
2.7.29	Micro QR code.....	33
2.7.30	PDF417.....	34
2.7.31	Micro PDF417.....	34
2.7.32	RSS-Expanded.....	34
2.7.33	RSS-Limited.....	34
2.7.34	RSS-14.....	34
2.7.35	Straight 2 of 5 Industrial.....	35
2.7.36	Interleave 2 of 5 (ITF5) setting.....	35
2.7.37	Aztec code.....	35
2.7.38	ITF25 length setting.....	36
3.	APPENDIX.....	37
3.1.1	Appendix 1.....	37
3.1.2	Appendix Decimal.....	42
3.1.3	Set up Escaped Character Set 0.....	45
3.1.4	2、Set Custom Key.....	45
3.1.5	3、Set control key codes.....	46
3.1.6	ASCII Table.....	47
3.1.7	Appendix Control Character.....	51
3.1.8	Setting master keycode.....	52
3.1.9	Appendix Symbologies.....	57

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

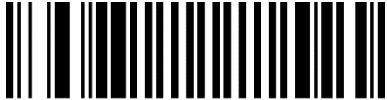

2. System Setup

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

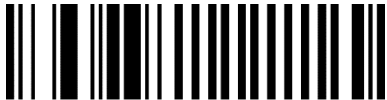
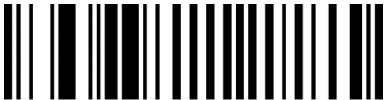
2.1.2 Restore factory default settings


Restore factory settings

2.1.3 Read version number

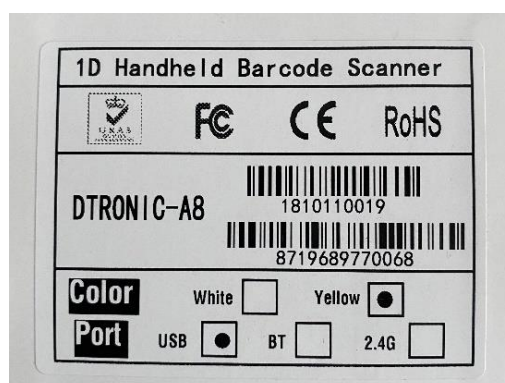

Read version number

2.1.4 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

	
Virtual Com-port	Quick Pair
	
2.4G Wireless	

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:


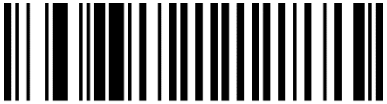
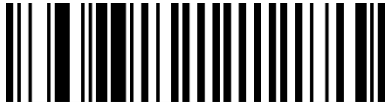





1. After activation, the green light of the scanner always remains on;
2. Scan "Enter Setting" >> "Pair Mode" >> "Bluetooth SPP Mode" >> "Exit Setting."
3. Now green remains on and two blue lights flash alternately.
4. When the blue and green lights are on and the buzzer sounds, pairing is successful.

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

	
Enable Aimer	Disable Aimer
	
Enable Illumination	Disable Illumination
	
Always off	Always on
	
Blink test mode	Disable blink test mode

2.3.3 Beeper Duration

	
Short	Normal
	
2.7Khz	



2.3.4 Beeper settings

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

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.

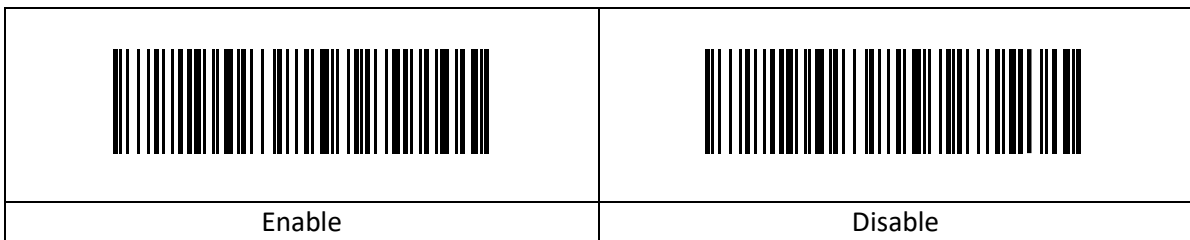
	
Level trigger mode	Sense mode

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.



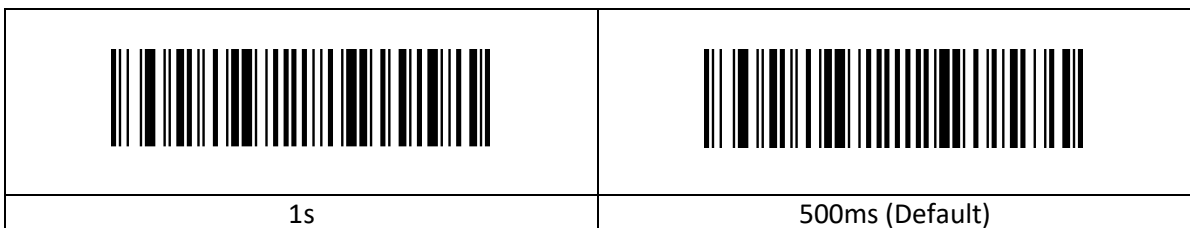
2.4.3 Time display



2.4.4 Auto Scan mode



2.4.5 Reread time out



2.4.6 Code reading timeout

	
30sec	300sec
	
2400sec	

2.4.7 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".









2.5 Communication settings







2.5.1 Communication settings

	
USB HID (default)	Virtual Com

2.5.2 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

2.5.3 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.

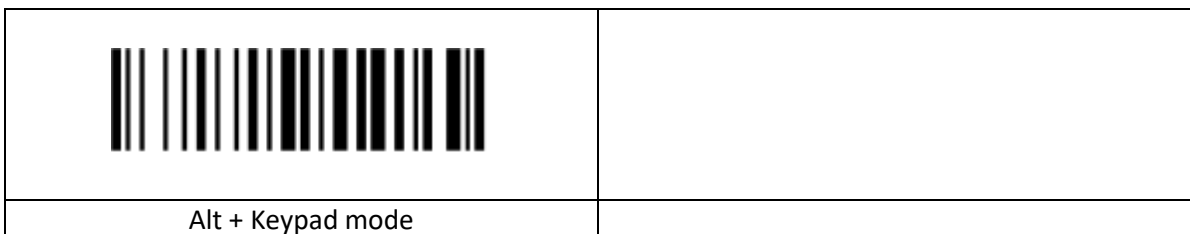


Setting the USB keyboard to send speed of 50ms can be set by reading the following barcodes in order.

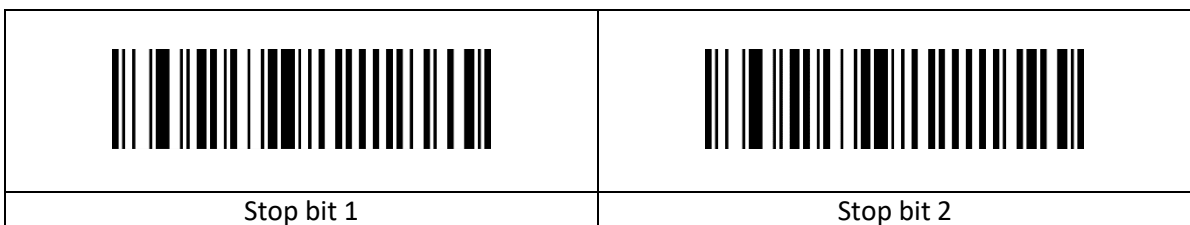
1. Read "Startup Settings"
2. Read the "Set USB keyboard send speed" setting code
3. Read data code: "5" "0" (see data code table)
4. Read "Save" (see data code table)
5. Read "Exit Settings"

2.5.5 Control Characters

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





2.5.6 Serial communication settings




2.5.7 Serial port baud rate setting


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

2.5.8 Serial port output

	
UTF-8	GBK
	
Serial output according to barcode content	

2.5.9 Serial port parity bit setting

	
No checksum (default)	Odd calibration

	
Even Check	

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.

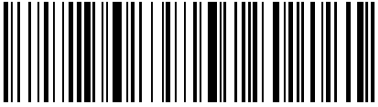

2.6.1 Hide characters

	
Hide from start	Hide from the end
	
1	2
	
3	4

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.

	
Add custom Prefix	Add custom suffix

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 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"



2.6.5 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

2.6.6 CTRL + X

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





DEC	HEX	Char		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		

2.6.7 Case output settings

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





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

2.6.8 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

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

	
Enable	Disable

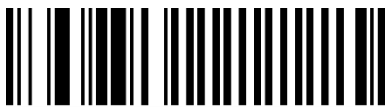

2.7.2 2D all symbologies

	
Enable	Disable







2.7.3 Inverse barcode

	
Decode regular only	Decode inverse only







2.7.4 All barcodes

	
Close all barcodes	Turn on all barcodes



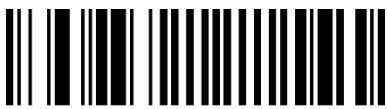



2.7.5 EAN8 Settings

	
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)

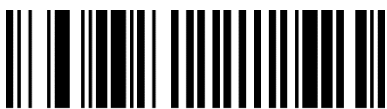

2.7.6 Code 11 Settings

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



2.7.7 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

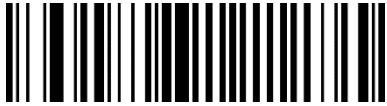







2.7.8 ISSN Settings

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







2.7.9 ISBN setting



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

2.7.10 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
	
Output digital	Not output digital

2.7.11 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)

	
Extended to 12 bits	Disable to 12 bits

2.7.12 UPCE







	
Enable	Disable

2.7.13 EAN/UPC

	
Enable	Disable


2.7.14 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)

2.7.15 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.

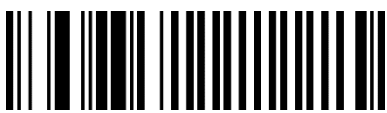

	
Minimum length setting	Maximum length setting

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"

2.7.16 Code 32 settings


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



2.7.17 Code 128 settings

	
Code 128 on (default)	Code 128 Off

2.7.18 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.

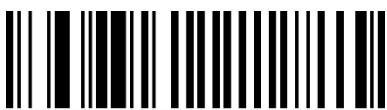
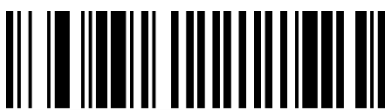
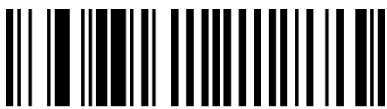
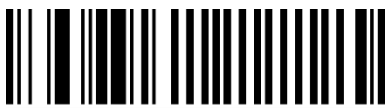


	
Minimum length setting	Maximum length setting

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"



2.7.19 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)

2.7.20 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.


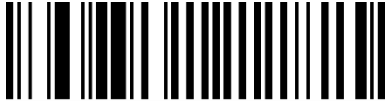
	
Minimum length setting	Maximum length setting

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"

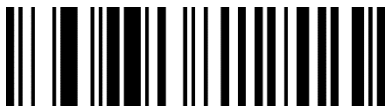

2.7.21 Codabar Setting

	
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

2.7.22 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".



2.7.23 GS1 Databar Limited

	
Enable	Disable

2.7.24 GS1 Databar omnidirectional


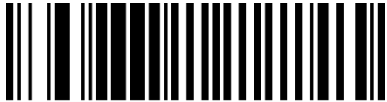
	
Enable	Disable

2.7.25 GS1 Databar Expanded



	
Enable	Disable

2.7.26 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



2.7.27 MSI

	
Enable	Disable



2.7.28 QR

	
Enable	Disable
	
Enable QR code URL link	Disable QR code URL link



2.7.29 Micro QR code

	
Enable	Disable



2.7.30 PDF417

	
Enable	Disable



2.7.31 Micro PDF417

	
Enable	Disable



2.7.32 RSS-Expanded

	
Enable	Disable



2.7.33 RSS-Limited

	
Enable	Disable







2.7.34 RSS-14

	
Enable	Disable

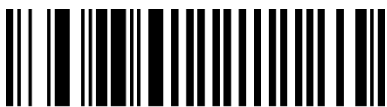

2.7.35 Straight 2 of 5 Industrial

	
Enable	Disable


2.7.36 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 Character (default)

2.7.37 Aztec code

	
Enable	Disable

2.7.38 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



3.1.1 Appendix 1

SN	Char	Barcode	SN	Character	Barcode
32			44	,	
33	!		45	-	
34	"		46	.	
35	#		47	/	
36	\$		48	0	
37	%		49	1	
38	&		50	2	
39	'		51	3	






40	(		52	4	
41	)		53	5	
42	*		54	6	
43	+		55	7	
56	8		70	F	
57	9		71	G	
58	:		72	H	
59	;		73	I	
60	<		74	J	
61	=		75	K	

62	>		76	L	
63	?		77	M	
64	@		78	N	
65	A		79	O	
66	B		80	P	
67	C		81	Q	
68	D		82	R	
69	E		83	S	
84	T		98	b	
85	U		99	c	

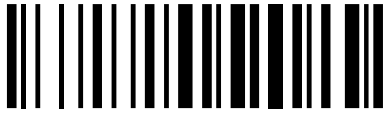
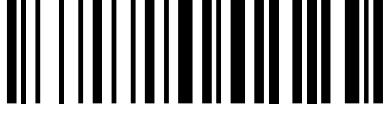
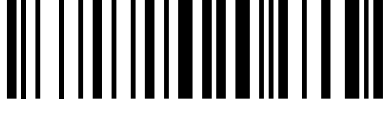







86	V		100	d	
87	W		101	e	
88	X		102	f	
89	Y		103	g	
90	Z		104	h	
91	[		105	i	
92	\		106	j	
93	]		107	k	
94	^		108	l	
95	-		109	m	

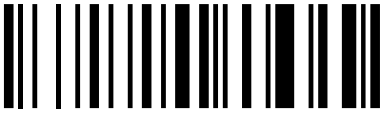


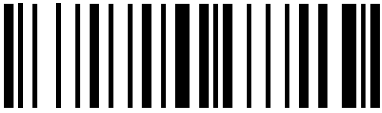
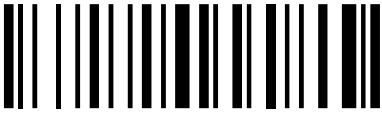

96	`		110	n	
97	a		111	o	
112	p		120	x	
113	q		121	y	
114	r		122	z	
115	s		123	{	
116	t		124	|	
117	u		125	}	
118	v		126	~	
119	w		127	DEL	

3.1.2 Appendix Decimal

Decima l	ASCII	Set 0	Set 1	Set 2	Set 3	Set 4	Setup Barcode
1	SOH	NULL	Home	Ctrl+A	Alt+001	Keypad Enter	
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	*Custom key1	Down Arrow	Ctrl+D	Alt+004	Up Arrow	
5	ENQ	*Custom key2	Left Arrow	Ctrl+E	Alt+005	NULL	

6	ACK	*Custom key3	Right Arrow	Ctrl+F	Alt+006	NULL	
7	BEL	*Custom key4	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	

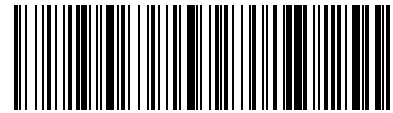
3.1.3 Set up Escaped Character Set 0



Escape Character Set 0

3.1.4 2、 Set Custom Key

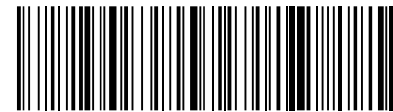
There are 4 barcodes, representing Custom Key 1 to Custom Key 4, so please select one of the barcodes. The specific barcodes are as follows.:



Set Custom Key 1



Set Custom Key2



Set Custom Key3



Set Custom Key4

3.1.5 3、 Set control key codes

Set the control keys, which are mainly various combinations of ALT, SHIFT and CTRL keys

ALT	SHIFT	CTRL	Setup Barcode
Release	Release	Release	
Release	Release	Press	
Release	Press	Release	

Release	Press	Press	
Press	Release	Release	
Press	Release	Press	
Press	Press	Release	
Press	Press	Press	

3.1.6 ASCII Table

Binary	Decimal	Hex	Char
0	0	0	NUL (NULL)
1	1	1	SOH (Start Of Heading)
10	2	2	STX (Start Of Text)
11	3	3	ETX (End Of Text)
100	4	4	EOT (End Of Transmission)
101	5	5	ENQ (Enquiry)
110	6	6	ACK (Acknowledge)
111	7	7	BEL (Bell)
1000	8	8	BS (Backspace)
1001	9	9	HT (Horizontal Tab)
1010	10	0A	LF/NL(Line Feed/New Line)

1011	11	0B	VT (Vertical Tab)
1100	12	0C	FF/NP (Form Feed/New Page)
1101	13	0D	CR (Carriage Return)
1110	14	0E	SO (Shift Out)
1111	15	0F	SI (Shift In)
10000	16	10	DLE (Data Link Escape)
10001	17	11	DC1/XON
			(Device Control 1/Transmission On)
10010	18	12	DC2 (Device Control 2)
10011	19	13	DC3/XOFF
			(Device Control 3/Transmission Off)
10100	20	14	DC4 (Device Control 4)
10101	21	15	NAK (Negative Acknowledge)
10110	22	16	SYN (Synchronous Idle)
10111	23	17	ETB (End of Transmission Block)
11000	24	18	CAN (Cancel)
11001	25	19	EM (End of Medium)
11010	26	1A	SUB (Substitute)
11011	27	1B	ESC (Escape)
11100	28	1C	FS (File Separator)
11101	29	1D	GS (Group Separator)
11110	30	1E	RS (Record Separator)
11111	31	1F	US (Unit Separator)
100000	32	20	(Space)
100001	33	21	!
100010	34	22	"
100011	35	23	#

100100	36	24	\$
100101	37	25	%
100110	38	26	&
100111	39	27	'
101000	40	28	(
101001	41	29)
101010	42	2A	*
101011	43	2B	+
101100	44	2C	,
101101	45	2D	-
101110	46	2E	.
101111	47	2F	/
110000	48	30	0
110001	49	31	1
110010	50	32	2
110011	51	33	3
110100	52	34	4
110101	53	35	5
110110	54	36	6
110111	55	37	7
111000	56	38	8
111001	57	39	9
111010	58	3A	:
111011	59	3B	;
111100	60	3C	<
111101	61	3D	=
111110	62	3E	>
111111	63	3F	?
1000000	64	40	@
1000001	65	41	A
1000010	66	42	B
1000011	67	43	C
1000100	68	44	D
1000101	69	45	E
1000110	70	46	F
1000111	71	47	G

1001000	72	48	H
1001001	73	49	I
1001010	74	4A	J
1001011	75	4B	K
1001100	76	4C	L
1001101	77	4D	M
1001110	78	4E	N
1001111	79	4F	O
1010000	80	50	P
1010001	81	51	Q
1010010	82	52	R
1010011	83	53	S
1010100	84	54	T
1010101	85	55	U
1010110	86	56	V
1010111	87	57	W
1011000	88	58	X
1011001	89	59	Y
1011010	90	5A	Z
1011011	91	5B	[
1011100	92	5C	\
1011101	93	5D]
1011110	94	5E	^
1011111	95	5F	_
1100000	96	60	`
1100001	97	61	a
1100010	98	62	b
1100011	99	63	c
1100100	100	64	d
1100101	101	65	e
1100110	102	66	f
1100111	103	67	g
1101000	104	68	h
1101001	105	69	i
1101010	106	6A	j
1101011	107	6B	k

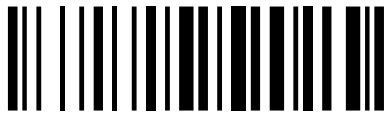

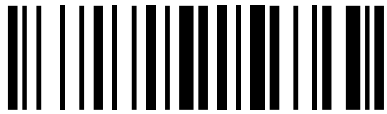

1101100	108	6C	l
1101101	109	6D	m
1101110	110	6E	n
1101111	111	6F	o
1110000	112	70	p
1110001	113	71	q
1110010	114	72	r
1110011	115	73	s
1110100	116	74	t
1110101	117	75	u
1110110	118	76	v
1110111	119	77	w
1111000	120	78	x
1111001	121	79	y
1111010	122	7A	z
1111011	123	7B	{
1111100	124	7C	|
1111101	125	7D	}
1111110	126	7E	~
1111111	127	7F	DEL (Delete)

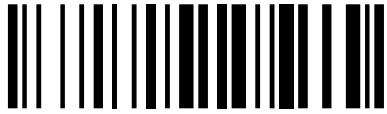






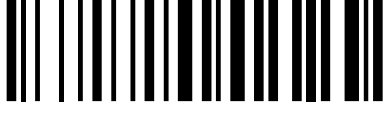

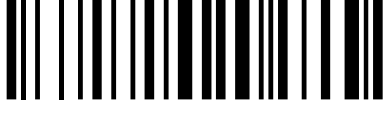










3.1.7 Appendix Control Character

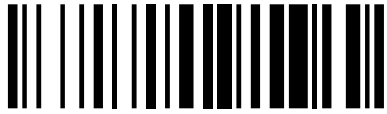

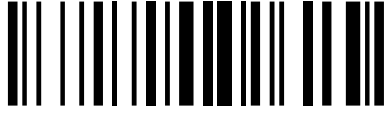







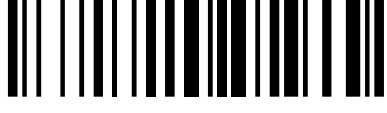









Dec	ASCII	Control + ASCII	Alt + Keypad
1	SOH (Start of Header)	Ctrl+A	Alt+001
2	STX (Start of Text)	Ctrl+B	Alt+002
3	ETX (End of Text)	Ctrl+C	Alt+003
4	EOT (End of Transmission)	Ctrl+D	Alt+004
5	ENQ (Enquiry)	Ctrl+E	Alt+005
6	ACK (Acknowledgment)	Ctrl+F	Alt+006
7	BEL (Bell)	Ctrl+G	Alt+007
8	BS (Backspace)	Back Space	Alt+008
9	HT (Horizontal Tab)	Tab	Alt+009
10	LF (Line Feed)	Ctrl+P	Alt+010
11	VT (Vertical Tab)	Ctrl+Q	Alt+011





















12	FF (Form Feed)	Ctrl+R	Alt+012
13	CR (Carriage Return)	Enter	Alt+013
14	SO (Shift Out)	Ctrl+N	Alt+014
15	SI (Shift In)	Ctrl+O	Alt+015
16	DLE (Data Link Escape)	Ctrl+P	Alt+016
17	DC1 (XON) (Device Control 1)	Ctrl+Q	Alt+017
18	DC2 (Device Control 2)	Ctrl+R	Alt+018
19	DC3 (XOFF) (Device Control 3)	Ctrl+S	Alt+019
20	DC4 (Device Control 4)	Ctrl+T	Alt+020
21	NAK (Negative Acknowledgement)	Ctrl+U	Alt+021
22	SYN (Synchronous Idle)	Ctrl+V	Alt+022
23	ETB (End of Trans. Block)	Ctrl+W	Alt+023
24	CAN (Cancel)	Ctrl+X	Alt+024
25	EM (End of Medium)	Ctrl+Y	Alt+025
26	SUB (Substitute)	Ctrl+Z	Alt+026
27	ESC (Escape)	Ctrl+[	Alt+027
28	FS (File Separator)	Ctrl+\	Alt+028
29	GS (Group Separator)	Ctrl+]	Alt+029
30	RS (Request to Send)	Ctrl+^	Alt+030
31	US (Unit Separator)	Ctrl+_	Alt+031





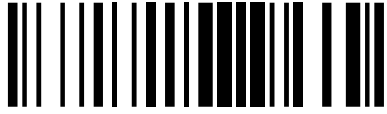

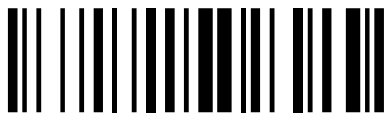











3.1.8 Setting master keycode

Key	Setup barcode	Key	Setup barcode
NA		I	
A		J	

B		K	
C		L	
D		M	
E		N	
F		O	
G		P	
H		Q	
R		Z	
S		1	
T		2	

U		3	
V		4	
W		5	
X		6	
Y		7	
8		-	
9		+ =	
0		{ [
Enter		}]	
ESC		| \	

Back space		: ;	
Tab		" '	
Space		~ ,	
< ,		F5	
> .		F6	
? /		F7	
Caps Lock		F8	
F1		F9	
F2		F10	
F3		F11	

F4		F12	
Print Screen		Page Down	
Scroll Lock		Right Arrow	
Pause		Left Arrow	
Insert		Down Arrow	
Home		Up Arrow	
Page Up		Num Lock	
Delete		Pad /	
End		Pad *	
Pad -		Pad 5	

Pad +		Pad 6	
Pad Enter		Pad 7	
Pad 1		Pad 8	
Pad 2		Pad 9	
Pad 3		Pad 0	
Pad 4		Pad .	

3.1.9 Appendix Symbologies

Barcode Type	Code ID	
	HEX	Char
Codabar	0x42	B
Code 11	0x68	h
Code 128	0x6A	j
Code 39(Code 32)	0x62	b
Code 93	0x69	i
ISBN	0x53	S
ISSN	0x6E	n
EAN		

EAN-13(including ISBN)	0x64	d
EAN-8	0x44	D
GS1		
GS1 DataBar	0x79	y
GS1 DataBar Limited	0x7B	{
GS1 DataBar Expanded	0x7D	}
GS1 DataBar Stacked	0x59	Y
2 of 5		
Interleaved 2 of 5	0x65	e
Matrix 2 of 5	0x6D	m
Industrial 2 of 5	0x66	f
MSI	0x67	g
UPC		
UPC-A	0x63	c
UPC-E0	0x45	E
UPC-E1	0x61	a
Aztec Code	0x41	A
Data Matrix	0x77	w
PDF417	0x72	r
Micro PDF417	0x52	R
QR	0x73	s
Micro QR	0x51	Q