

# Gebruikershandleiding

## DT3310



### Barcodescanner – DT3310



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*Versie* : 1.0

## Voorwoord

Bedankt voor het vertrouwen in een product van DTRONIC. Lees de inhoud van de gebruikershandleiding zorgvuldig door om de producten veilig en effectief te gebruiken. U wordt geadviseerd om deze handleiding correct te bewaren voor uw installatie en als naslagwerk. Gelieve het product niet te demonteren of het zegel eraf te scheuren, anders bieden we geen garantie of vervangende service.

De afbeeldingen in deze gebruikershandleiding zijn alleen ter referentie. Als er afbeeldingen zijn die niet overeenkomen met het daadwerkelijke product, neem dan het daadwerkelijke product als standaard.

Bijgewerkte informatie kan zonder voorafgaande kennisgeving worden gewijzigd. Alle informatie in deze handleiding is auteursrechtelijk beschermd en ons bedrijf behoudt zich alle rechten voor. Het is verboden om deze handleiding geheel of gedeeltelijk uit te delen, te kopiëren, te bundelen of zonder schriftelijke toestemming van ons te verkopen.

DTRONIC is een BOIP geregistreerd merk en in samenwerking met GS1 juridisch beschermd. Diwolar is het enige bedrijf met de rechten om dit merk op de markt te brengen. Heeft u een product aangeschaft dat niet via Diwolar is gekocht dan vervalt de garantie. Bij contact met de klantenservice vragen wij u altijd naar het bestelnummer. Deze gebruikershandleiding is van toepassing op DTRONIC barcodescanners die streepjescodes identificeren met behulp van een laserscanpatroon.

DTRONIC is niet aansprakelijk voor de geleden schade en defecten wanneer de barcodescanner niet werkt, niet naar behoren werkt of verkeerd gebruikt wordt.

Heeft u vragen over uw product? Wij staan graag voor u klaar.

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# 1. Het product

## 1.1 Hoofdfuncties van deze scanner

- Werkt met Plug&Play en zonder installatiesoftware.
- Werkt met de meeste WMS systemen.
- Sommige WMS of kassasystemen moeten worden ingesteld op het gebruik van een scanner.
- Device waar de scanner op aangesloten is zal deze zien als toetsenbord.
- In de basis scant de scanner de 95% van de barcodes, overige 5% kan naar wens ingesteld worden met deze handleiding.
- Er zitten gepatenteerde onderdelen in de scanner, DTRONIC heeft de rechten om deze artikelen te verkopen op de Nederlandse, Belgische en Duitse markt.

## 1.2 Pak het apparaat uit

Nadat u de doos met het product hebt geopend, voert u de volgende stappen uit:

- Haal de accessoires voor de scanner uit de verpakking.
- Haal de scanner uit de verpakking.
- Controleer bij de paklijst of alles compleet en in goede staat is. Als er beschadigde of ontbrekende onderdelen zijn, bewaar dan de originele verpakking en neem contact op met DTRONIC voor de klantenservice.

Paklijst:

1. Handscanner
2. USB Aansluitkabel (bij draadloze scanners is dit de oplaadkabel)
3. Paperclip
4. Verkorte gebruikershandleiding

## 1.3 Opstarten, afsluiten en opnieuw opstarten

Opstarten: verbind de computer met de scanner. De computer zal hem herkennen als toetsenbord en de scanner kan gebruikt worden.

Uitschakelen: verwijder de kabel die is verbonden met de scanner; verwijder de USB die op de computer is aangesloten.

Opnieuw opstarten: als de scanner crasht of niet reageert, schakel hem dan uit en start hem opnieuw op. Eventueel kan de fabrieksinstelling uit deze handleiding gebruikt worden.

## 1.4 Onderhoud

Het scanvenster moet schoon worden gehouden, de leverancier draagt niet de garantieverantwoordelijkheid als gevolg van onjuist onderhoud. Voorkom dat het raam verslijt of wordt bekrast door een hard voorwerp. Gebruik een zachte doek om de vlek op het scanvenster te verwijderen. Reinig het scanvenster met een zachte doek, zoals een lensreinigingsdoekje. Sproeien van vloeistof op het scanvenster is verboden. Verbied alle reinigingsoplosmiddelen, behalve het reinigingswater.






## 1.5 Leesvaardigheden

Als de streepjescode klein is, moet deze dicht bij het scanscanvenster liggen; als de streepjescode groot is, moet deze verder van het scanscanvenster verwijderd zijn, zodat deze gemakkelijker leesbaar is.

Als de streepjescode sterk reflecteert (bijvoorbeeld het gecoate oppervlak), moet u de streepjescode mogelijk schuin kantelen om de streepjescode te scannen. De beste afstand om een barcode te lezen is 10-15 cm.

## 1.6 Uitstraling van het apparaat

### 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

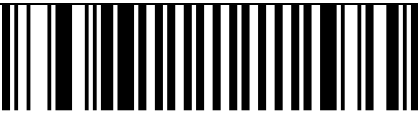
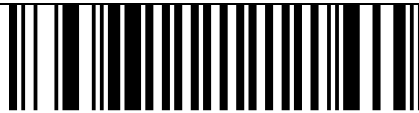
## 2. Systeem-instellingen

Optie- en functie-instelling voornamelijk door het lezen van een reeks speciale barcodes. In dit hoofdstuk geven we u een gedetailleerde introductie van de opties en functies die beschikbaar zijn voor gebruikersinstellingen en de bijbehorende instellingscode.

Deze methode voor het instellen van de scan is direct, gemakkelijk te begrijpen en gebruiksvriendelijk.

### 2.1 System Setup

#### 2.1.1 Setup code

	
Startup settings (default)	Exit Settings


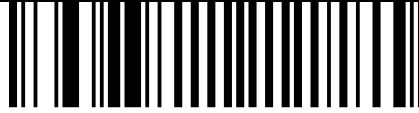
#### 2.1.2 Restore factory default settings


Restore factory settings


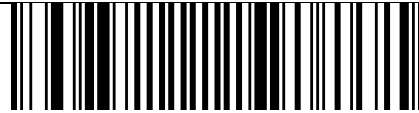
#### 2.1.3 Read version number

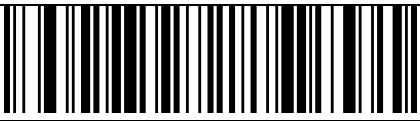

Read version number

#### 2.1.4 Product User Settings

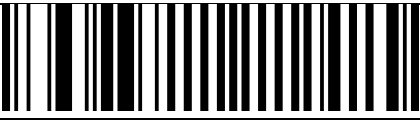
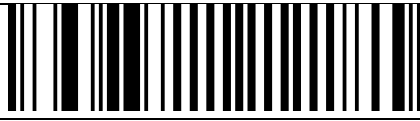
	
Save user default settings	Restore user default settings

#### 2.1.5 Beeper settings

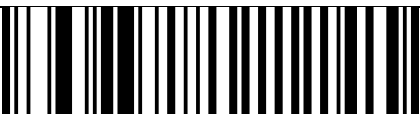

	
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Volume set to High (50%) (default)	Volume set to midrange (25%)
	
Volume set to bass (12.5%)	

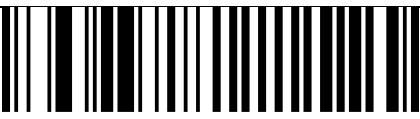

### 2.1.6 Set the beep switch

	
Open (default)	Close

### 2.1.7 Power on beep switch

	
Open (default)	Close

### 2.1.8 Read success beep switch

	
Open (default)	Close

## 2.2 Reading mode settings

### 2.2.1 Level trigger mode

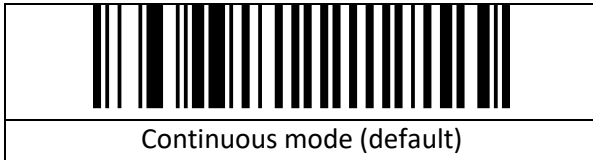
Enter the reading state when the trigger key pin is at low level. Press and hold the trigger key to start reading code. After reading the code successfully or releasing the trigger key, the code reading ends and the next decoding needs to re-enter the low level state.


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.



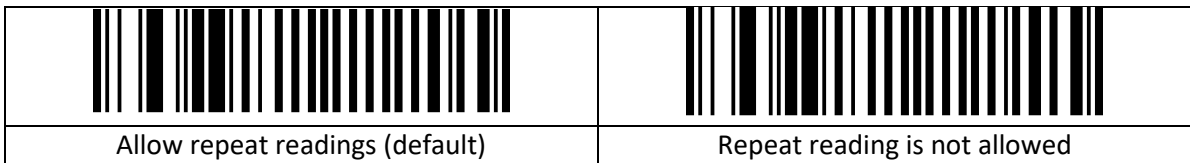
### 2.2.3 Pulse trigger mode

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



### 2.2.4 Repeat read switch

The repeat read setting is only available in continuous mode.



### 2.2.5 One read timeout

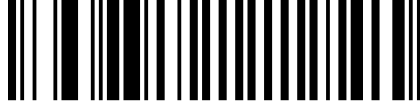

One time reading timeout time, the unit is 0.1 seconds. The default value is 30 (3 seconds), when set to 0, it means that the device is always in the reading state, and the time range can be set: 0~999.



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

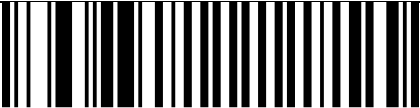
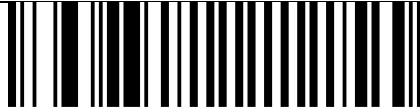
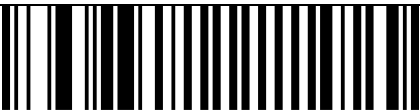
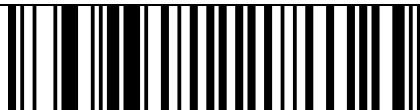
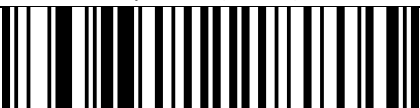
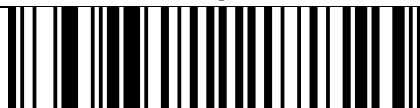
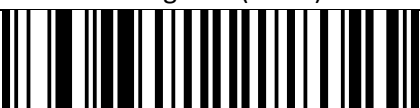
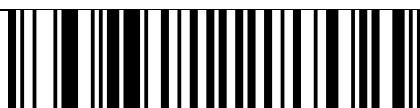





## 2.3 Communication settings

### 2.3.1 Communication settings

	
USB HID (default)	USB CDC serial port
	
RS-232 serial port	

### 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)	

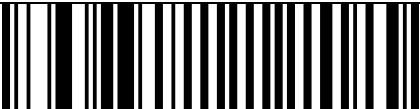
### 2.3.3 USB keyboard sending speed

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.


Set USB keyboard sending speed

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

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

### 2.3.5 Control Characters


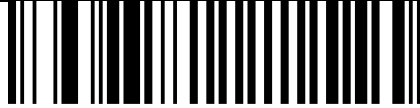
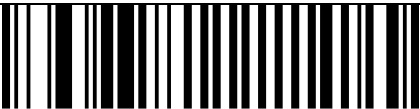
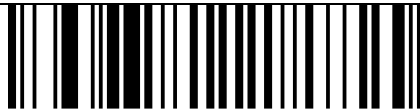
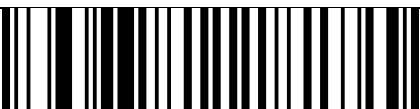
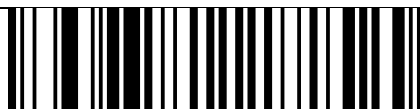
Specific reference to the control character table, only the data content of the barcode is converted.

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

### 2.3.6 Serial communication settings

The serial data bit is 8 and the serial stop bit is 1.

### 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 parity bit setting

	
No checksum (default)	Odd calibration
	
Even Check	

## 2.4 Data format setting

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

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

### 2.4.1 Custom prefix on/off settings

Custom prefixes add a user-defined string before the decoded information. For example, if you allow to add a custom prefix and set the prefix to the string "AB", after reading the barcode with the data "123", the scanner adds the string "AB" before the string "123", and the host side receives

"AB123". After the barcode reading data is "123", the scanner will add the string "AB" before the string "123", and the host side will receive "AB123".

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

Enable	Disable (default)
Clear all custom prefixes	

### 2.4.2 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"

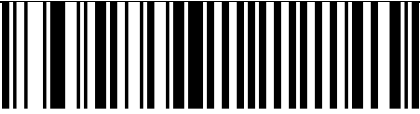
Customized prefixes

### 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)

	
Clear all custom suffixes	

### 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.

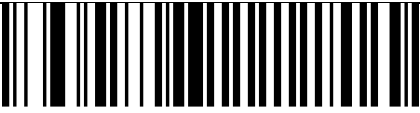
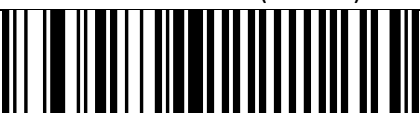

Close Code ID (default): Code ID is not spliced to the read string.

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"

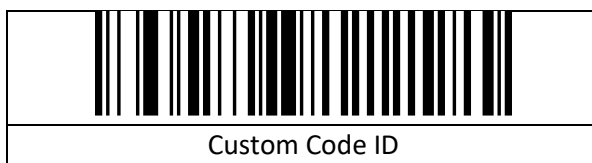
	
Disable CODE ID (default)	Code ID prefix
	
Code ID suffix	Clear all custom Code IDs

### 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 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

### 2.4.9 Data output settings

	<b>OPMERKING:</b> 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


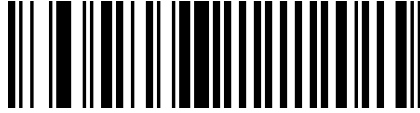
## 2.5 Symbolologies

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



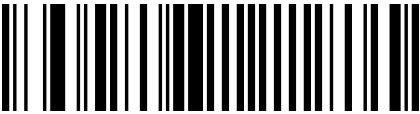



The fewer barcode types that are turned on, the faster the scanner will Scan. You can turn off the barcode types that will not be used to improve the performance of the scanner.



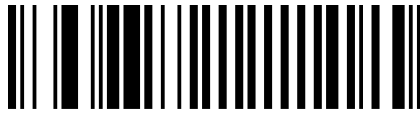
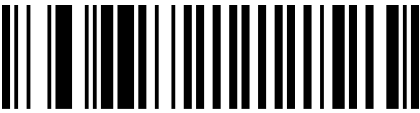
**2.5.1 All barcodes**

	
Close all barcodes	Turn on all barcodes

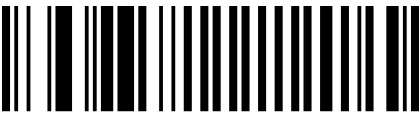

**2.5.2 EAN8 Settings**

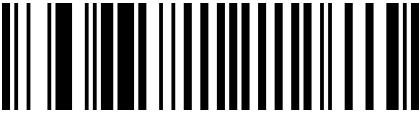



	
EAN8 on (default)	EAN8 off
	
Enable EAN8 transmission Check Character (default)	Disable EAN8 transmit Check Character
	
Convert EAN8 to EAN13	Do not Convert EAN8 to EAN13 (default)

**2.5.3 Add-on code setting**

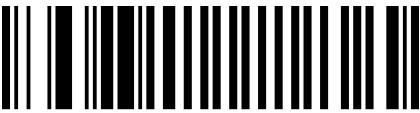
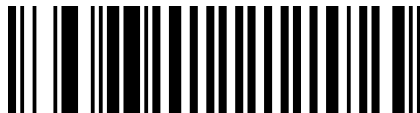
	
Adaptive UPC/EAN add-on codes	Only Decode UPC/EAN Add-on codes
	
Ignore UPC/EAN add-on codes (default)	

**2.5.4 EAN 13 settings**

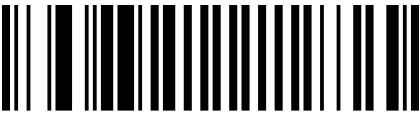
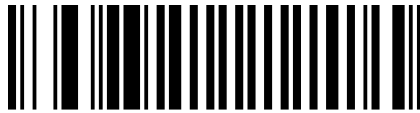
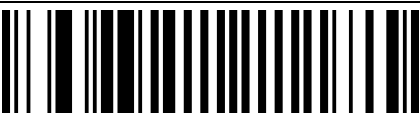
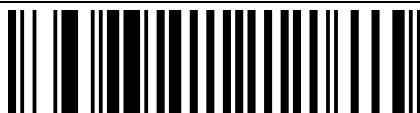
	
EAN13 on (default)	EAN13 off

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


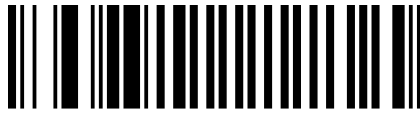

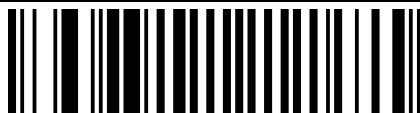
### 2.5.5 ISSN Settings

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



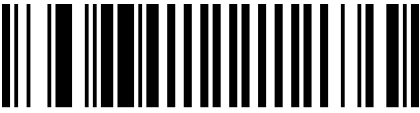
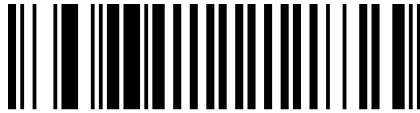
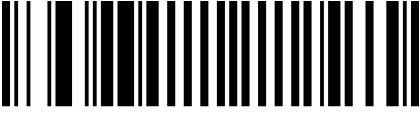
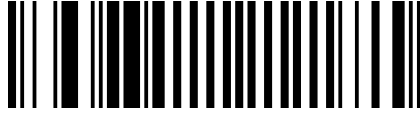
### 2.5.6 ISBN setting

	
Set the ISBN data bits to 13 bits	Set ISBN data bits to 10 bits (default)
	
Convert EAN13 to ISBN	Do not Convert EAN13 to ISBN (default)

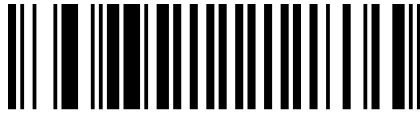
### 2.5.7 UPC-A settings

	
Transmit UPC-A check character (default)	Do not Transmit UPC-A check character
	
Convert UPC-A to EAN13 (default)	Do not Convert UPC-A to EAN13

**2.5.8 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)

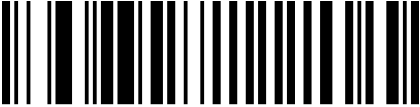
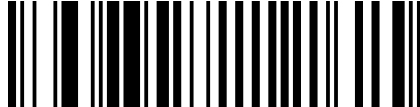
**2.5.9 Code 39 Settings**

	
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)

### 2.5.10 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.


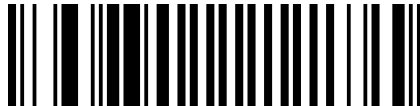
	
Minimum length setting	Maximum length setting

**Example**


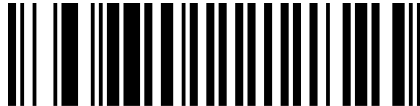

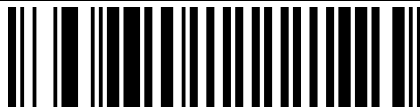

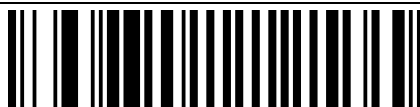
Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.

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"


### 2.5.11 Code 32 settings


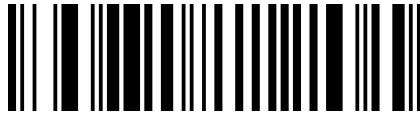
	
Convert Code39 to Code32	Do not Convert Code39 to Code32 (default)

### 2.5.12 Code 128 settings

	
Code 128 on (default)	Code 128 Off
	
Enable Code 128 Check Character (default)	Disable Code 128 Check Character
	
Transmit Code 128 Check Character	Do not Transmit Code 128 Check Character (default)

### 2.5.13 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.

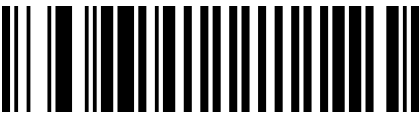
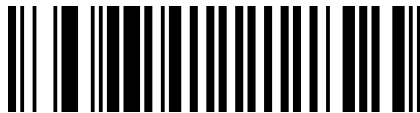

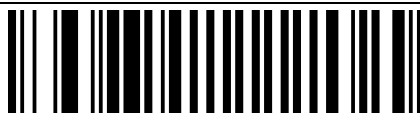
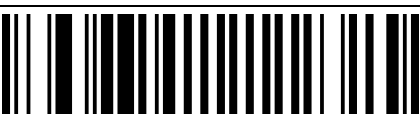
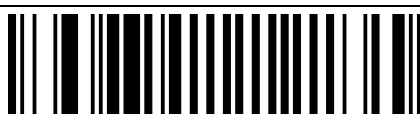
	
Minimum length setting	Maximum length setting

**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"

### 2.5.14 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)

### 2.5.15 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"

## 2.5.16 Codabar Settings

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

## 2.5.17 Codabar Length Setting

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

	
Minimum length setting	Maximum length setting







### Example

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


1. Scan "Startup Settings" 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".

### 2.5.18 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)

### 2.5.19 ITF25 length setting

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

	
Minimum length setting	Maximum length setting






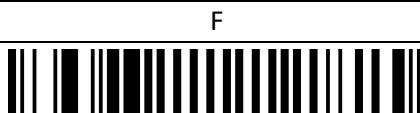
#### Example

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

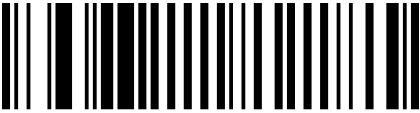
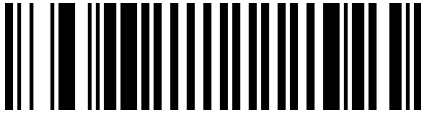
1. Scan "Startup Settings" barcode
2. Scan "Minimum length setting" barcode
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix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

### 3. Appendix

#### 3.1 Appendix 1 Data code table

	
0	1
	
2	3
	
4	5
	
6	7
	
8	9
	
A	B
	
C	D
	
E	F
	
Cancel a string of data that was read earlier	Cancel current settings



	
Cancel the previous read data	Save

### 3.1.1 Appendix 2 Code system support list

Code type	CODE ID	
	HEX	Corresponding characters
Codabar	0x42	B
Code 39	0x62	b
Code 93	0x69	i
Code 128	0x6A	j
EAN		
EAN-8	0x44	D
EAN-13	0x64	d
ISBN-10	0x73	s
ISBN-13	0x53	S
ISSN	None	None
UPC		
UPC-A	0x63	c
UPC-E	0x45	E
2 of 5		
Interleaved 2 of 5	0x65	e

### 3.1.2 Appendix 3 Control Characters Table

Character	Character Name	Value (decimal )	Value (hexadecimal)	Control character output Control + ASCII mode	Control character output ALT+Keypad mode
NUL (Null char.)	Zero Characters	0	0x00	Ctrl+@	ALT+0
SOH (Start of Header)	Title Start	1	0x01	Ctrl+A	ALT+1
STX (Start of Text)	Text Start	2	0x02	Ctrl+B	ALT+2
ETX (End of Text)	End of text	3	0x03	Ctrl+C	ALT+3
EOT (End of Transmission)	End of transmission	4	0x04	Ctrl+D	ALT+4
ENQ (Enquiry)	Inquiry	5	0x05	Ctrl+E	ALT+5
ACK (Acknowledgment)	Confirmation	6	0x06	Ctrl+F	ALT+6
BEL (Bell)	Ringer	7	0x07	Ctrl+G	ALT+7
BS (Backspace)	Backspace	8	0x08	Ctrl+H	ALT+8
HT (Horizontal Tab)	Horizontal Tabs	9	0x09	Ctrl+I	ALT+9
LF (Line Feed)	line feed	10	0x0a	Ctrl+J	ALT+10
VT (Vertical Tab)	Vertical tabs	11	0x0b	Ctrl+K	ALT+11
FF (Form Feed)	Format feed to	12	0x0c	Ctrl+L	ALT+12
CR (Carriage Return)	Carriage return	13	0x0d	Ctrl+M	ALT+13
SO (Shift Out)	Move out	14	0x0e	Ctrl+N	ALT+14
SI (Shift In)	Move in	15	0x0f	Ctrl+O	ALT+15
DLE (Data Link Escape)	Data transfer	16	0x10	Ctrl+P	ALT+16

	code change				
DC1 (XON) (Device Control 1)	Device Control 1 (XON)	17	0x11	Ctrl+Q	ALT+17
DC2 (Device Control 2)	Equipment Control 2	18	0x12	Ctrl+R	ALT+18
DC3 (XOFF) (Device Control 3)	Device Control 3 (XOFF)	19	0x13	Ctrl+S	ALT+19
DC4 (Device Control 4)	Equipment Control 4	20	0x14	Ctrl+T	ALT+20
NAK (Negative Acknowledgement)	Negative characters	21	0x15	Ctrl+U	ALT+21
SYN (Synchronous Idle)	Synchroniz ed idle	22	0x16	Ctrl+V	ALT+22
ETB (End of Trans. Block)	End transmissio n word group	23	0x17	Ctrl+W	ALT+23
CAN (Cancel)	Cancellatio n	24	0x18	Ctrl+X	ALT+24
EM (End of Medium)	End of Media	25	0x19	Ctrl+Y	ALT+25
SUB (Substitute)	Alternative	26	0x1a	Ctrl+Z	ALT+26
ESC (Escape)	Exit	27	0x1b	Ctrl+[	ALT+27
FS (File Separator)	File separator	28	0x1c	Ctrl+\	ALT+28
GS (Group Separator)	grouping symbol	29	0x1d	Ctrl+]	ALT+29
RS (Request to Send)	Record separation symbols	30	0x1e	Ctrl+6	ALT+30
US (Unit Separator)	Cell separator	31	0x1f	Ctrl+-	ALT+31

### 3.1.3 Appendix 4 ASCII Code table

(Light yellow background for control characters, white background for displayable characters.)

Binary	Decimal	Hexadecimal	Characters/abbreviations	Explanation
0	0	0	NUL (NULL)	null character
1	1	1	SOH (Start Of Heading)	Title Start
10	2	2	STX (Start Of Text)	Start of main article
11	3	3	ETX (End Of Text)	End of text
100	4	4	EOT (End Of Transmission)	End of transmission
101	5	5	ENQ (Enquiry)	Request
110	6	6	ACK (Acknowledge)	Response/response/notification received
111	7	7	BEL (Bell)	Ringer
1000	8	8	BS (Backspace)	Backspace
1001	9	9	HT (Horizontal Tab)	Horizontal Tabs
1010	10	0A	LF/NL(Line Feed/New Line)	Line feed key
1011	11	0B	VT (Vertical Tab)	Vertical Tabs
1100	12	0C	FF/NP (Form Feed/New Page)	Page change key
1101	13	0D	CR (Carriage Return)	Enter key
1110	14	0E	SO (Shift Out)	No need to switch
1111	15	0F	SI (Shift In)	Enable switching
10000	16	10	DLE (Data Link Escape)	Data Link Escape
10001	17	11	DC1/XON (Device Control 1/Transmission On)	Device Control 1/ Transmission Start
10010	18	12	DC2 (Device Control 2)	Equipment Control 2
10011	19	13	DC3/XOFF	

			(Device Control 3/Transmission Off)	Device control 3/transmission interruption
10100	20	14	DC4 (Device Control 4)	Equipment Control 4
10101	21	15	NAK (Negative Acknowledge)	No response/abnormal response/rejected
10110	22	16	SYN (Synchronous Idle)	Synchronized idle
10111	23	17	ETB (End of Transmission Block)	End of block transfer/block transfer termination
11000	24	18	CAN (Cancel)	Cancellation
11001	25	19	EM (End of Medium)	End of Media / Media Storage Full / Media Break
11010	26	1A	SUB (Substitute)	Substitute / Replacement
11011	27	1B	ESC (Escape)	Escape/Cancel
11100	28	1C	FS (File Separator)	File splitter
11101	29	1D	GS (Group Separator)	Group separator / grouping character
11110	30	1E	RS (Record Separator)	Record separator
11111	31	1F	US (Unit Separator)	Cell separator
100000	32	20	(Space)	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	?	
1,000,0 00	64	40	@	
100000 1	65	41	A	
100001 0	66	42	B	
100001 1	67	43	C	
100010 0	68	44	D	
100010 1	69	45	E	
100011 0	70	46	F	
100011 1	71	47	G	
100100 0	72	48	H	
100100 1	73	49	I	
100101 0	74	4A	J	

100101 1	75	4B	K	
100110 0	76	4C	L	
100110 1	77	4D	M	
100111 0	78	4E	N	
100111 1	79	4F	O	
101000 0	80	50	P	
101000 1	81	51	Q	
101001 0	82	52	R	
101001 1	83	53	S	
101010 0	84	54	T	
101010 1	85	55	U	
101011 0	86	56	V	
101011 1	87	57	W	
101100 0	88	58	X	
101100 1	89	59	Y	
101101 0	90	5A	Z	
101101 1	91	5B	[	
101110 0	92	5C	\	

101110 1	93	5D	]	
101111 0	94	5E	^	
101111 1	95	5F	-	
110000 0	96	60	`	
110000 1	97	61	a	
110001 0	98	62	b	
110001 1	99	63	c	
110010 0	100	64	d	
110010 1	101	65	e	
110011 0	102	66	f	
110011 1	103	67	g	
110100 0	104	68	h	
110100 1	105	69	i	
110101 0	106	6A	j	
110101 1	107	6B	k	
110110 0	108	6C	l	
110110 1	109	6D	m	
110111 0	110	6E	n	



110111 1	111	6F	o	
111000 0	112	70	p	
111000 1	113	71	q	
111001 0	114	72	r	
111001 1	115	73	s	
111010 0	116	74	t	
111010 1	117	75	u	
111011 0	118	76	v	
111011 1	119	77	w	
111100 0	120	78	x	
111100 1	121	79	y	
111101 0	122	7A	z	
111101 1	123	7B	{	
111110 0	124	7C		
111110 1	125	7D	}	
111111 0	126	7E	~	
111111 1	127	7F	DEL (Delete)	Delete