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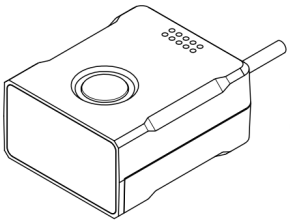
XT736M

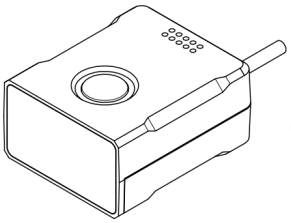
XT738M

XT736MB

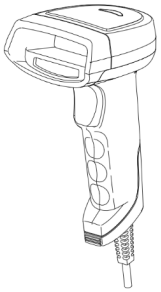
XT2010CHD



XT2010F



XT6201B



2D Module XT736M XT738M XT736MB XT2010CHD XT2010F
2D Scanner XT6201B

series universal
User manual

Version number: enV1.1

*Specifications are subject to change without notice

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Enter settings

Version update

Serial number	Data	Content	Version number
1	2021.12	1.The first edition	V1.0
2	2022.6	1. Revise the overall typesetting 2. Add a list of common serial port commands	V1.1

Exit settings

Enter settings

Directory

Exit settings

Enter settings

Exit settings

Enter settings

Exit settings

Enter settings

Chapter Ⅰ System Settings

Introduction

There are two ways to set up the scanner.

Setup code

The scanner sets options and functions by reading a series of special barcodes.In the following sections, we will detail the options and features available for setup and provide the corresponding setup code.

This method of setting the reading is relatively straightforward, and it is easy to make a mistake by setting each setting code manually.

Setting command

The host can send a setup command string to set up the scanner.In the following sections, in addition to the introduction of the setup code, we will also introduce the setup command string.

Setting up the scanner with the setup command can be automated.Users can develop a suite of software that loads all relevant setup data into the scanner.

Set identifier

This is the ID that disables the setup code feature.The logo consists of four parts:

1. Set the barcode portion of the code.
2. Set the name of the option or function, such as the exit setting function.
3. Set the command string corresponding to the setup code.

Enter settings

Use setup code

The user can scan the "On setting code" to enable the scanner setting function. After the function is enabled, you can modify the parameters of the scanner by reading one or more setting codes of corresponding functions, and finally scan the "Off setting code" to make the Settings take effect.

Operation procedure: You must first scan "Enter settings", then scan the codes of corresponding functions, and finally scan "Disable setting code". After scanning off Setting code, the module restarts automatically and enters the new working mode.

Enter settings
$>:S01010F.<$

Exit settings
$>:S01000F.<$
（default）

Setup code information

Sending setting code information: When sending setting code information is enabled, the scanning setting code will be sent to the upper computer through a certain communication mode (UART/CDC/HID).

Do not send
$>:S060026.<$
（default）

send
$>:S060626.<$

Exit settings

Enter settings

factory data reset

Restore default factory Settings: The communication mode will be restored to the CDC virtual serial port. For other default values, refer to "System Default Settings" and "Bar Code Default Settings" in the appendix.

Restore default factory Settings
$>:S010186.<$

Save the Settings as user defaults

Save user default settings
$>:SVDEF02.<$

Restore user default settings
$>:S020286.<$

Exit settings

Enter settings

Set the reading interval

Set the reading interval
$>: R000302.<$

Example

Example: Set the read interval to 500ms (data code in hexadecimal)
1) Read "Enter settings"
2) Read the code of "Set the reading interval"
3) Read data code "1" (see appendix)
4) Read data code "F" (see appendix)
5) Read data code "4" (see Appendix)
6) Read the "Save" code (see appendix)
7) Read "Exit settings"

Single read duration

Open reading, the length of time during which reading is not successfully closed.

Single read duration
$>: R000064.<$

Example

Example: set the read duration to 4000ms (data codes are expressed in hexadecimal).
1) Read "Enter settings"
2) Read the “Single read duration”
3) Read data code "F" (see appendix)
4) Read data code "A" (see Appendix)
5) Read data code "0" (see appendix)
6) Read the "Save" code (see appendix)
7) Read "Exit settings"

Exit settings

Enter settings

Same bar code delay

You can set the same bar code delay to control the sequential bar code read interval and realize the read interval control between the same bar code and different bar codes.

No delay
$>:S100017.<$

Delay
$>:S101017.<$

Same reading time setting
$>: R000322.<$

Exit settings

Enter settings

Reading mode settings

Manual reading: default trigger (key + command) + single mode
Automatic induction reading: induction trigger + single mode
Continuous reading at boot: scan code automatically at boot + continuous mode
Manual continuous reading: default trigger (key + command) + continuous mode

Manual reading
$>:SFF0200.<$
（default）

Automatic induction reading
$>:SFF0400.<$

Continuous reading at boot
$>:SFF0100.<$

Manual continuous reading
$>:SFF0300.<$

Exit settings

Enter settings

Prompt tone setting

Enable/disable the prompt tone

Turn on (setting code)
$>:S020229.<$
（default）

shut down (setting code)
$>:S020029.<$

Turn on (Non-setting code)
$>:S040429.<$
（default）

shut down (Non-setting code)
$>:S040029.<$

Turn on(Power-on prompt)
$>:S010129.<$
（default）

shut down (Power-on prompt)
$>:S010029.<$

Exit settings

Enter settings

Prompt tone frequency

Low frequency (type 1)
$>:SFFDA27.<$

IF (Type 2)
$>:SFF4B27.<$

High frequency (type 3)
$>:SFF2527.<$
（default）

Duration of prompt tone

40ms
$>:SFF1F28.<$

80ms
$>:SFF3E28.<$
（default）

120ms
$>:SFF5D28.<$

Exit settings

Enter settings

Tone volume

Low
$>:S030018.<$

Medium
$>:S030118.<$

High
$>:S030218.<$

Unknown character prompt tone

Allow
$>:S080829.<$

Prohibit
$>:S080029.<$

Exit settings

Enter settings

Mute Settings

Mute off
$>:S404000.<$

Start mute
$>:S400000.<$

Lighting set up

No lighting
$>:S0C0000.<$

Normal(Lit when reading, default)
$>:S0C0400.<$

Always bright
$>:S0C0800.<$

Exit settings

Enter settings

Sight light setting

No aiming
$>:S300000.<$

Normal(Lit when reading, default)
$>:S301000.<

Always bright
$>:S302000.<$

Exit settings

Enter settings

Chapter Ⅱ RS-232 Communication Settings

Introduction

You can use RS-232 communication, also known as serial communication. When the scanner and the host are connected by a serial cable, the communication parameters between the scanner and the host device must be completely matched to ensure smooth communication and correct content.

Note: Serial communication mode needs to cooperate with software assistant.

Serial communication
$>: S0F0016.<$

Baud rate

The baud rate is the number of bits per second for serial data communication. The baud rate used by the scanner and the data receiving host must be consistent to ensure accurate data transmission.The scanner supports the baud rates listed below, in bits/s.Default: 115200bps.

2400bps
$>:S0F0147.<$

4800bps
$>:S0F0247.<$

Exit settings

Enter settings

9600bps
$>:S0F0347.<$

19200bps
$>:S0F0547.<$

38400bps
$>:S0F0647.<$

57600bps
$>:S0F0747.<$

115200bps
$>:S0F0847.<$
（default）

Exit settings

Enter settings

Serial port sending mode in Chinese

Both this function and HID send mode need to be selected in combination with the country/language keyboard layout

Four modes: Convert to inner code, UTF8, Unicode-big-endian, Unicode-little-endian, auto

Raw data sending
$>:S704046.<$
（default）

Converted into internal code to send
$>:S700046.<$

Convert to UTF8
$>:S701046.<$

Convert UNICODE-BIG
$>:S702046.<$

Convert UNICODE-LITTLE
$>:S703046.<$

Exit settings

Enter settings

Chapter Ⅲ USB Communication Settings

Introduction

There are three options for USB connection:

- ✧ USB HID Keyboard: The engine's transmission is simulated as USB keyboard input with no need for command configuration or a driver. Barcode data could be entered by the virtual keyboard directly and it is also convenient for the host device to receive data.
- ✧ USB CDC: It is compliant with the standard USB CDC class specifications defined by the USB-IF and allows the host device to receive data in the way as a serial port does. A driver is needed when using this feature.
- ✧ HID POS (POS HID Barcode Scanner): It is based on the HID interface, with no need for a custom driver. It excels virtual keyboard and traditional RS-232 interface in transmission speed.

Exit settings

Enter settings

USB keyboard

With the USB cable connected, the scanner can be set to HID Keyboard input mode.In this mode, the scanner will become a virtual keyboard, and the data receiving host accepts input from the virtual keyboard as if it were a real keyboard input.After the scanner decodes the data, the sending process is to tap each button corresponding to the data in the virtual keyboard.

USB HID KBW

$>:S0F0116.<$

Note: If the input box of the host can accept keyboard input, the scanner can use this communication method to input the decoded data directly into the input box of the host without any other auxiliary programs.

Exit settings

Enter settings

National keyboard layout

Different languages have different keyboard layouts and symbols. The scanner can be modulated into a different country's keyboard system as needed, default is the US keyboard.

Please [turn off Chinese output] before setting!! Then select HID send mode!! .

US(default)
$>:S1F001D.<$

BELGIUM
$>:S1F011D.<$

BRAZIL
$>:S1F021D.<$

CANADA
$>:S1F031D.<$

CZECHOSLOVAKIA
$>:S1F041D.<$

DENMARK
$>:S1F051D.<$

Exit settings

Enter settings

FINLAND
$>:S1F061D.<$

FRANCE
$>:S1F071D.<$

GERMANY_AUSTRIA
$>:S1F081D.<$

GREECE
$>:S1F091D.<$

HUNGARY
$>:S1F0A1D.<$

ISRAEL
$>:S1F0B1D.<$

ITALY
$>:S1F0C1D.<$

LANTIN_AMERICA
$>:S1F0D1D.<$

Exit settings

Enter settings

NETHERLANDS
$>:S1F0E1D.<$

NORWAY
$>:S1F0F1D.<$

POLAN
$>:S1F101D.<$

PORTUAGAL
$>:S1F111D.<$

ROMANIA
$>:S1F121D.<$

RUSSIA
$>:S1F131D.<$

SLOVAKIA
$>:S1F151D.<$

SPAIN
$>:S1F161D.<$

Exit settings

Enter settings

SWEDEN
$>:S1F171D.<$

SWITZERLAND
$>:S1F181D.<$

TURKEY _F
$>:S1F191D.<$

TURKEY _Q
$>:S1F1A1D.<$

UK
$>:S1F1B1D.<$

JAPAN
$>:S1F1C1D.<$

Simplified Chinese
$>:S1F1D1D.<$

Traditional Chinese
$>:S1F1E1D.<$

Exit settings

Enter settings

Italy 142
$>:S1F1F1D.<$

SHIFT JIS to RUSSIA

Thailand
$>:S203F1D.<$

Note:

1 For the Output in Chinese (usb or serial port), select GBK, which is equivalent to selecting the internal code of the setting code language.

2 Check items that output garbled characters: [CodePage][TXT notebook, WPS, MS Excel], [Unicode][MS Word, QQ, wechat]

By default, the national language is simplified Chinese and the output format is GBK. At this time, the Windows keyboard should choose Chinese input method and output to TXT notebook. The code map binary should be ASCII or GBK or UTF8 Chinese.

HID Input encoding preset AUTO GBK2312 UTF8 BIG5 SHIFT JIS
HID send mode internal code output leading zero
UNICODE output
National language keyboard

Exit settings

Enter settings

HID input encoding preset

For example 1, if the code map binary encoding is SHIFT JIS encoding and the content is Russian, at this point, first turn off the Chinese output, select RUSSIA for the keyboard layout of the national language, HID input encoding is preset to SHIFT JIS, HID send mode - switch to internal code send, then the Russian output will be correct.

When HID send mode - raw data is sent, HID input encoding preset - invalid!!

Auto
$>:SF0000C.<$
（default）

GBK2312
$>:SF0100C.<$

UTF-8
$>:SF0200C.<$

Exit settings

Enter settings

HID sending mode

Raw data transmission: Raw decoded data is encoded in decimal notation.

Transfer to internal code: according to the setting of keyboard language in different countries, the decoded data will be converted to the corresponding national internal code; Please use it with the Settings of "Keyboard system setting HID-KBW" and "HID input coding Preset".

When raw data is sent, no encoding conversion takes place regardless of the value of "HID Input Encoding Preset".

Raw data sending
$>:S070019.<$
（default）

Converted into internal code to send
$>:S070319.<$

Convert to UNICODE
$>:S070519.<$

Exit settings

Enter settings

HID Chinese output quick Settings

You can set Chinese output to TXT or WORD. Before selecting keyboard layouts of other languages, disable Chinese output. Set Chinese output to TXT is closed ALT+ digits zero setting, that is, not affected by the input method. Set to turn off The Chinese output, turn on ALT+ digit lead zero setting.

TXT
$>:SHTCT01.<$

close
$>:SHTCT03.<$
（default）

Disable Chinese output: equivalent to setting
HID Input coding preset -AUTO,
HID sending mode - Raw data sending,
Output pilot zero,
Serial Port Chinese output - original data transmission,
National Language keyboard - Simplified Chinese.

Exit settings

Enter settings

Button delay

This parameter specifies the delay between simulated keys. When the host requires slower data transfer, scan the corresponding bar code below to increase the delay. Default: No delay between keys.

No delay
$>:SC00037.<$
（default）

20ms
$>:SC04037.<$

40ms
$>:SC0C037.<$

$>:R0001E2.<$
Custom key delay

Example

The key delay is actually made according to the character delay, set the unit to 1ms(ms),
Example: Set key delay to 10ms (data code in hexadecimal)
1) Read "Enter settings"
2) Read the setting code of "Custom key delay"
3) Read data code "0" (see appendix)
4) Read data code "A" (see Appendix)
5) Read the "Save" code (see appendix)
6) Read "Exit settings"

Exit settings

Enter settings

Case conversion

Scan the corresponding bar code below to convert all bar code data to the desired situation. Default: no conversion.

If this parameter is set to All uppercase letters, the bar code data is converted to all uppercase letters regardless of whether the letters in the bar code are lowercase letters.

If this parameter is set to All lowercase letters, the bar code data is all converted to lowercase letters, regardless of whether the letters in the bar code are uppercase or lowercase letters.

No conversion
$>:S380037.<$

Case conversion
$>:S380837.<$

Convert all to uppercase characters
$>:S382037.<$

Convert all to lowercase characters
$>:S383037.<$

Exit settings

Enter settings

Analog numeric keypad

Numeric characters using a numeric keypad

Analog digital keypad: Each time before sending the scan result, the system determines whether num lock is enabled. If not, the system sends a command to enable it.

Turn on
$>:S040437.<$

turn off
$>:S040037.<$

Exit settings

Enter settings

USB CDC serial port

When you use the usb connection and you want the host to receive data using the serial port, you should use the usb virtual serial port.From the perspective of the host-side system interface, the scanner is equivalent to connecting to the host through a serial port.

USB CDC(default)
$>: S0F0216.<$

Exit settings

Enter settings

HID POS

USB HID POS

$>: S0F0516.<$

The HIDPOS protocol is applicable to setup commands and extended commands. The graph commands are not supported，HID POS：HID\VID_120B&PID_8207

1）Scan Format The terminal automatically uploads the scan data	
Byte	Bit
0	Packet ID (0x02)
1	Barcode data length
2-57	Barcode data
58-61	4 bytes reserved
62	0x00
63	0x00 (no data behind) 0x01 (more data behind)
2）Upper computer -> Scan terminal controls the packet format	
Byte	Bit
0	Packet ID (0x04)
1	Barcode data length
2-63	Barcode data

Exit settings

Enter settings

Chapter Ⅳ Bar Code Parameter Settings

Introduction

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

The fewer bar code types that allow read is enabled, the faster the scanner reads. You can improve scanner performance by disabling the scanner from reading bar code types that it will not use.

Comprehensive settings

Note: CODE128 and QR codes are fixed on, and all disables these two codes reading switches are invalid.

Allow all barcodes

Read "Allow read all bar codes", the scanner will read all readable bar codes.

Allow all barcodes
$>:S010187.<$

Prohibit all barcodes

Read "Do not read all bar codes", the scanner will only read the setting code, except the setting code will not be able to read all bar codes.

Prohibit all barcodes
$>:S010087.<$

Exit settings

Enter settings

Allow all 1D codes

Allow all 1D codes
$>:S020287.<$

Prohibit all 1D codes

Prohibit all 1D codes
$>:S020087.<$

Allow all 2D barcodes

Allow all 2D codes
$>:S040487.<$

Prohibit all 2D barcodes

Prohibit all 2D codes
$>:S040087.<$

Exit settings

Enter settings

Enable all 1D bar code inverting

Enable all 1D bar code inverting
$>:S080887.<$

All 1D bar code inverting is prohibited

All 1D bar code inverting is prohibited
$>:S080087.<$
（default）

Enable all 2D bar code inverting

Enable all 2D bar code inverting
$>:S101087.<$

All 2D bar code inverting is prohibited

All 2D bar code inverting is prohibited
$>:S100087.<$
（default）

Exit settings

Enter settings

Code128/AIM128/EAN128/NL128

Restore factory defaults

** Code 128 factory default setting
$>:DEFXX90.<$

Enable/disable reading

allow
$>:S010188.<$
（default）

prohibit
$>:S010088.<$

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host.

The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CODE 128Maximum decoding length
（default：80）
$>: R000C21.<$

CODE 128Minimum decoding length
（default：2）
$>: R000C31.<$

Example

Example: Limit the scanner to only read bar codes ranging from 8 bytes to 12 bytes

1) Read "Enter settings"
2) Read the setting CODE of "CODE 128 Minimum Decoding Length"
3) Read 8 (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting CODE of "CODE 128 Maximum Decoding Length"
6) Read "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

GS1-128 output allowed to read

Allow output
$>:S202088.<$

Prohibit output
$>:S200088.<$
（default）

Enable/disable inverting

allow Inverted
$>:S404088.<$

Prohibit Inverted
$>:S400088.<$
（default）

Exit settings

Enter settings

UPC/EAN/ISSN/ISBN

Restore factory defaults

Restore the default value of UPC/EAN related settings
$>:DEFXX91.<$

Enable/disable reading

allow
$>:S010189.<$
（default）

Prohibit
$>:S010089.<$

Exit settings

Enter settings

EAN8\EAN13\UPCA\UPCE check character transfer

Ean-8 Bar code data is fixed to 8 bytes, and the last byte is the check character.

EAN8 Output check
$>:S0101AA.<$
（default）

EAN8 Do not output check
$>:S0100AA.<$

EAN13 Output check
$>:S0202AA.<$
（default）

EAN13 Do not output check
$>:S0200AA.<$

UPCA Output check
$>:S0404AA.<$
（default）

UPCA Do not output check
$>:S0400AA.<$

UPCE Output check
$>:S0808AA.<$
（default）

UPCE Do not output check
$>:S0800AA.<$

Exit settings

Enter settings

Allow reading with extra code

After setting it to "Read 2-digit additional code" or "Read 5-digit additional code", the scanner can read new barcodes composed of ordinary barcodes and additional codes, or ordinary barcodes without additional codes. After setting to "Do not read 2-digit additional code" or "Do not read 5-digit additional code", the part of the additional code in the new barcode composed of ordinary barcode and additional code will not be read, and the part of ordinary barcode can still be read. Common sense reading.

Read 2-digit additional code
$>:S101089.<$
（default）

Do not read the 2-digit additional code
$>:S100089.<$

Read 5-digit additional code
$>:S080889.<$
（default）

Do not read the 5-digit additional code
$>:S080089.<$

Must have additional code
$>:S808089.<$

No additional code required
$>: S800089.<$
（default）

Exit settings

Enter settings

Extended settings

"Barcode information is not expanded", that is, the original type and data bits of the barcode are maintained without expansion.

"Expand the bar code information to 13 bits", that is, expand the data bits of the bar code (add 0 in front), but the bar code type does not change.

ENA8 to ENA13 OPEN
$>:S600089.<$

ENA8 to ENA13 CLOSE
$>:S602089.<$
（default）

UPCE to UPCA OPEN
$>:S1010A4.<$

UPCE to UPCA CLOSE
$>:S1000A4.<$
（default）

UPCA to EAN13 OPEN
$>:S0302A4.<$

UPCA to EAN13 CLOSE
$>:S0301A4.<$
（default）

UPCE output system character 0
$>:S0C04A4.<$

UPCE does not output system characters 0
$>:S0C00A4.<$
（default）

Exit settings

Enter settings

Blank area setting

Allow less than standard blank setting
$>:S4040AA.<$

Cancel less than standard blank setting
$>:S4000AA.<$
（default）

Do not check blank settings
$>:S8080AA.<$

Cancel Do not check blank settings
$>:S8000AA.<$
（default）

Enable/disable inversion

allow Inverted

Prohibit Inverted
（default）

Exit settings

Enter settings

Codabar

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX94.<$

Enable/disable reading

allow
$>:S01018C.<$
（default）

Prohibit
$>:S01008C.<$

Enable/disable inversion

$>:S40008C.<$
prohibit Inverted
（default）

$>:S40408C.<$
allow Inverted

Exit settings

Enter settings

Check character transfer

The check digit is not mandatory in Codabar barcode data. If there is a check digit, it is the last character of the data. The check digit is a value calculated based on all data to verify whether the data is correct.

Set to "No Check", the scanner will transmit all barcode data normally.

Set to "Check but not send check digit", the scanner will check according to the last 1 digit of the barcode. If the check is passed, it will transmit normal data except the check digit. If the check fails, it will prompt the barcode reading failure.

Set to "Check and send check digit", the scanner will check the last 1 digit of the barcode. If the check is passed, the check digit will be transmitted as the last 1 digit of normal data. If the check fails, it will be prompted to read the code.

No check
$>:S02008C.<$
（default）

Check but do not send check digit
$>:S06028C.<$

Check and send check digit
$>:S06068C.<$

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host.

The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CODABAR Maximum decoding length
（default：60）
$>: R000C81.<$

CODABAR Minimum decoding length
（default：5）
$>: R000C91.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the "CODABAR minimum decoding length" setting code
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "CODABAR Maximum Decoding Length"
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

Send start character setting

Do not send start character
$>:S08088C.<$
（default）

Send start character
$>:S08008C.<$

Starting character case setting

Start character uppercase
$>:S20008C.<$
（default）

Start character lowercase
$>:S20208C.<$

Exit settings

Enter settings

Code 39

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX92.<$

Enable/disable reading

allow
$>:S01018A.<$
（default）

Prohibit
$>:S01008A.<$

Enable/disable inversion

$>:S4000A5.<$
prohibit Inverted
（default）

$>:S4040A5.<$
allow Inverted

Exit settings

Enter settings

Check character output

No check
$>:S02008A.<$
（default）

Check but do not send check digit
$>:S06028A.<$

Check and send check digit
$>:S06068A.<$

Expand support

Allow Expand
$>:S08088A.<$

Prohibit Expand
$>:S08008A.<$
（default）

Exit settings

Enter settings

Full ASCII support

Allow full ascii
$>:S20208A.<$
（default）

Prohibit full ascii
$>:S20008A.<$

Set the reading length

CODE 39Maximum decoding length
（default：50）
$>: R000C41.<$

CODE 39Minimum decoding length
（default：1）
$>: R000C51.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the setting code of "CODE 39 Minimum Decoding Length"
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "CODE 39 Maximum Decoding Length"
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Start and stop

$>:S10108A.<$
Send CODE39 preamble

$>:S10008A.<$
Do not send CODE39 preamble
（default）

Exit settings

Enter settings

Code 32 Restore factory defaults

$>:DEFXXAC.<$
CODE32 restores the default value of barcode related settings

Code 32 Enable/disable reading

$>:S0101AB.<$
allow
（default）

$>:S0100AB.<$
Prohibit

Code 32 Start and stop

$>:S1010AB.<$
PREIFX characters before sending (A)

$>:S1000AB.<$
Don't send PREFIX characters
（default）

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host.

The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CODE 32Maximum decoding length
$>:R001181.<$

CODE 32Minimum decoding length
$>:R001191.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the setting code of "CODE 32 minimum decoding length"
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "CODE 32 Maximum Decoding Length"
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

Code 93

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX95.<$

Enable/disable reading

allow
$>:S01018D.<$
（default）

Prohibit
$>:S01008D.<$

Enable/disable inversion

allow Inverted
$>:S40408D.<$

Prohibit Inverted
$>:S40008D.<$
（default）

Exit settings

Enter settings

Check character output

No check
$>:S02008D.<$
（default）

Check but do not send check digit
$>:S06028D.<$

Check and send check digit
$>:S06068D.<$

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host.

The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CODE 93Maximum decoding length
（default：60）
$>: R000CA1.<$

CODE 93Minimum decoding length
（default：5）
$>: R000CB1.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the setting code of "CODE 93 Minimum Decoding Length"
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "CODE 93 Maximum Decoding Length"
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

Code 11

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX97.<$

Enable/disable reading

allow
$>:S01018F.<$

Prohibit
$>:S01008F.<$
（default）

Enable/disable inversion

$>:S40008F.<$
prohibit Inverted
（default）

$>:S40408F.<$
allow Inverted

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host.

The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CODE 11Maximum decoding length
（default：80）
$>: R000CE1.<$

CODE 11Minimum decoding length
（default：1）
$>: R000CF1.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the setting code of "CODE 11 Minimum Decoding Length"
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "CODE 11 Maximum Decoding Length"
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

ITF-25/ITF-14/ITF-6/ Deutsche12/ Deutsche14

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX93.<$

Enable/disable reading

allow
$>:S01018B.<$
（default）

Prohibit
$>:S01008B.<$

Enable/disable inversion

$>:S40008B.<$
prohibit Inverted
（default）

$>:S40408B.<$
allow Inverted

Exit settings

Enter settings

Check character output

No check
$>:S02008B.<$
（default）

Check but do not send check digit
$>:S06028B.<$

Check and send check digit
$>:S06068B.<$

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host.

The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

ITF Maximum decoding length
（default：100）
$>: R000C61.<$

ITF Minimum decoding length
（default：6）
$>: R000C71.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the "ITF minimum decoding length" setting code
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "ITF Maximum Decoding Length"
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

Industrial 25

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX9B.<$

Enable/disable reading

allow
$>:S010193.<$

Prohibit
$>:S010093.<$
（default）

Enable/disable inversion

$>:S400093.<$
prohibit Inverted
（default）

$>:S404093.<$
allow Inverted

Exit settings

Enter settings

Check character output

No check
$>:S020093.<$
（default）

Check but do not send check digit
$>:S060293.<$

Check and send check digit
$>:S060693.<$

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

INDUSTRIAL 25Maximum decoding length
（default：80）
$>: R000D41.<$

INDUSTRIAL 25Minimum decoding length
（default：1）
$>: R000D51.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the setting code of "INDUSTRIAL 25 minimum decoding length"
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "INDUSTRIAL 25 Maximum Decoding Length"
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

Matrix 25

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX96.<$

Enable/disable reading

allow
$>:S01018E.<$

Prohibit
$>:S01008E.<$
（default）

Enable/disable inversion

$>:S40008E.<$
prohibit Inverted
（default）

$>:S40408E.<$
allow Inverted

Exit settings

Enter settings

Check character output

No check
$>:S02008E.<$
（default）

Check but do not send check digit
$>:S06028E.<$

Check and send check digit
$>:S06068E.<$

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

Matrix25 Maximum decoding length
（default：80）
$>: R000CC1.<$

Matrix25 Minimum decoding length
（default：6）
$>: R000CD1.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the "Matrix25 minimum decoding length" setting code
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the "Matrix25 maximum decoding length" setting code
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

Japan Matrix 25/NEC 25

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXXA6.<$

Enable/disable reading

allow
$>:S01019E.<$

Prohibit
$>:S01009E.<$
（default）

Enable/disable inversion

$>:S40009E.<$
prohibit Inverted
（default）

$>:S40409E.<$
allow Inverted

Exit settings

Enter settings

Check character output

No check
$>:S02009E.<$
（default）

Check but do not send check digit
$>:S06029E.<$

Check and send check digit
$>:S06069E.<$

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

NEC25 Maximum decoding length
（default：80）
$>: R000FE2.<$

NEC25 Minimum decoding length
（default：1）
$>: R001002.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the "NEC25 minimum decoding length" setting code
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "NEC25 Maximum Decoding Length"
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

Standard 25

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX9A.<$

Enable/disable reading

allow
$>:S010192.<$

Prohibit
$>:S010092.<$
（default）

Enable/disable inversion

$>:S400092.<$
prohibit Inverted
（default）

$>:S404092.<$
allow Inverted

Exit settings

Enter settings

Check character output

No check
$>:S020092.<$
（default）

Check but do not send check digit
$>:S060292.<$

Check and send check digit
$>:S060692.<$

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

STANDARD 25 Maximum decoding length
（default：80）
$>: R000D21.<$

STANDARD 25 Minimum decoding length
（default：1）
$>: R000D31.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the "STANDARD 25 minimum decoding length" setting code
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "STANDARD 25 Maximum Decoding Length"
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

DataLogic 25

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXXA7.<$

Enable/disable reading

allow
$>:S01019F.<$

Prohibit
$>:S01009F.<$
（default）

Enable/disable inversion

$>:S40009F.<$
prohibit Inverted
（default）

$>:S40409F.<$
allow Inverted

Exit settings

Enter settings

Check character output

No check
$>:S02009F.<$
（default）

Check but do not send check digit
$>:S06029F.<$

Check and send check digit
$>:S06069F.<$

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

DataLogic25Maximum decoding length
（default：1024）
$>: R001022.<$

DataLogic25Minimum decoding length
（default：1）
$>: R001042.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes
1) Read "Enable Setup Code"
2) Read the setting code of "DataLogic 25 Minimum Decoding Length"
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "DataLogic 25 Maximum Decoding Length"
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

MSI-Plessey

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX99.<$

Enable/disable reading

allow
$>:S010191.<$

Prohibit
$>:S010091.<$
（default）

Enable/disable inversion

$>:S400091.<$
prohibit Inverted
（default）

$>:S404091.<$
allow Inverted

Exit settings

Enter settings

Check character output

No check
$>:S020191.<$

MOD10
$>:S180091.<$
（default）

MOD10/11
$>:S180891.<$

MOD10/10
$>:S181091.<$

Check but do not send check digit
$>:S060291.<$
（default）

Check and send check digit
$>:S060691.<$

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

MSI_PlesseyMaximum decoding length
（default：80）
$>: R000D01.<$

MSI_PlesseyMinimum decoding length
（default：1）
$>: R000D11.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the setting code of "MSI_Plessey minimum decoding length"
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the "MSI_Plessey maximum decoding length" setting code
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

Plessey

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXXA8.<$

Enable/disable reading

allow
$>:S0101A0.<$

Prohibit
$>:S0100A0.<$
（default）

Enable/disable inversion

$>:S4000A0.<$
prohibit Inverted
（default）

$>:S4040A0.<$
allow Inverted

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

Plessey Maximum decoding length
（default：80）
$>: R001062.<$

Plessey Minimum decoding length
（default：1）
$>: R001082.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Read "Enable Setup Code"
2) Read the "Plessey minimum decoding length" setting code
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the "Plessey maximum decoding length" setting code
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

RSS-EXP /RSS_14/GS1 Data

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX98.<$

RSS14 Enable/disable reading

$>:S010190.<$
allow

$>:S010090.<$
Prohibit
（default）

RSS14 Enable/disable inversion

$>:S400090.<$
prohibit Inverted
（default）

$>:S404090.<$
allow Inverted

Exit settings

Enter settings

RSS14 LIMIT Enable/disable reading

$>:S0101A6.<$
allow

$>:S0100A6.<$
Prohibit
(default)

RSS14 LIMIT Enable/disable inversion

$>:S4000A6.<$
prohibit Inverted
（default）

$>:S4040A6.<$
allow Inverted

RSS14_STACK Enable/disable reading

$>:S0101A7.<$
allow

$>:S0100A7.<$
Prohibit
(default)

Exit settings

Enter settings

RSS14_STACK Enable/disable inversion

$>:S4000A7.<$
prohibit Inverted
（default）

$>:S4040A7.<$
allow Inverted

RSS EXPANDED Enable/disable reading

$>:S0101A8.<$
allow

$>:S0100A8.<$
Prohibit
(default)

RSS EXPANDED Enable/disable inversion

$>:S4000A8.<$
prohibit Inverted
（default）

$>:S4040A8.<$
allow Inverted

Exit settings

Enter settings

RSS EXPANDED STACK Enable/disable reading

$>:S0101A9.<$
allow

$>:S0100A9.<$
Prohibit
(default)

RSS EXPANDED STACK Enable/disable inversion

$>:S4000A9.<$
prohibit Inverted
（default）

$>:S4040A9.<$
allow Inverted

Exit settings

Enter settings

Telepen

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX9C.<$

Enable/disable reading

allow
$>:S010194.<$

Prohibit
$>:S010094.<$
（default）

Enable/disable inversion

$>:S400094.<$
prohibit Inverted
（default）

$>:S404094.<$
allow Inverted

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

TELEPENMaximum decoding length
（default：80）
$>: R000D61.<$

TELEPENMinimum decoding length
（default：1）
$>: R000D71.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes
1) Read "Enable Setup Code"
2) Read the "TELEPEN minimum decoding length" setting code
3) Read the data code "8" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the "TELEPEN maximum decoding length" setting code
6) Read the data code "C" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

ALPHAP character set setting

$>:S101094.<$
Allow ALPHAP character set

$>:S100094.<$
Prohibit ALPHAP character set
（default）

Exit settings

Enter settings

AZTEC

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXXA2.<$

Enable/disable reading

allow
$>:S01019A.<$

Prohibit
$>:S01009A.<$
（default）

Enable/disable inversion

$>:S40009A.<$
prohibit Inverted
（default）

$>:S40409A.<$
allow Inverted

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

AZTEC Maximum decoding length
（default：1024）
$>: R000ED2.<$

AZTEC Minimum decoding length
（default：1）
$>: R000F02.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes

1) Read "Enable Setup Code"
2) Read the setting code of "AZTEC Minimum Decoding Length"
3) Read the data code "4" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "AZTEC Maximum Decoding Length"
6) Read the following data codes: "6" "4" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

Data Matrix

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX9F.<$

Enable/disable reading

allow
$>:S010197.<$

Prohibit
$>:S010097.<$
（default）

Enable/disable inversion

allow Inverted
$>:S020297.<$

Prohibit Inverted
$>:S020097.<$
（default）

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

Data MatrixMaximum decoding length
（default：3116）
$>: R000E12.<$

Data MatrixMinimum decoding length
（default：1）
$>: R000E32.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes

1) Read "Enable Setup Code"
2) Read the setting code of "Data Matrix Minimum Decoding Length"
3) Read the data code "4" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "Data Matrix Maximum Decoding Length"
6) Read the following data codes: "6" "4" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

GS1_DM output enable

Allow output
$>:S202097.<$

Prohibit output
$>:S200097.<$
（default）

Exit settings

Enter settings

Maxi Code

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXXA1.<$

Enable/disable reading

allow
$>:S010199.<$

Prohibit
$>:S010099.<$
（default）

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

MAXI Maximum decoding length
（default：1024）
$>: R000E92.<$

MAXI Minimum decoding length
（default：1）
$>: R000EB2.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes
1) Read "Enable Setup Code"
2) Read the "MAXI minimum decoding length" setting code
3) Read the data code "4" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "MAXI Maximum Decoding Length"
6) Read the following data codes: "6" "4" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

PDF417

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX9D.<$

Enable/disable reading

allow
$>:S010195.<$
（default）

Prohibit
$>:S010095.<$

Enable/disable inversion

allow Inverted
$>:S020295.<$

Prohibit Inverted
$>:S020095.<$
（default）

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

PDF417 Maximum decoding length
（default：2710）
$>: R000D82.<$

PDF417 Minimum decoding length
（default：1）
$>: R000DA2.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes

1) Read "Enable Setup Code"
2) Read the "PDF417 minimum decoding length" setting code
3) Read the data code "4" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "PDF417 Maximum Decoding Length"
6) Read the following data codes: "6" "4" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

Micro PDF

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXXAB.<$

Enable/disable reading

allow
$>:S0101A3.<$

Prohibit
$>:S0100A3.<$
（default）

Enable/disable inversion

$>:S4000A3.<$
prohibit Inverted
（default）

$>:S4040A3.<$
allow Inverted

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

Micro PDF Maximum decoding length
（default：1024）
$>: R001122.<$

Micro PDF Minimum decoding length
（default：1）
$>: R001142.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes

1) Read "Enable Setup Code"
2) Read the setting code of "Micro PDF Minimum Decoding Length"
3) Read the data code "4" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "Micro PDF Maximum Decoding Length"
6) Read the following data codes: "6" "4" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

QR Code

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXX9E.<$

Enable/disable reading

allow
$>:S080896.<$
（default）

Prohibit
$>:S080096.<$

Enable/disable inversion

allow Inverted
$>:S020296.<$

Prohibit Inverted
$>:S020096.<$
（default）

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

QR Maximum decoding length
（default：4096）
$>: R000DC2.<$

QR Minimum decoding length
（default：1）
$>: R000DF2.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes

1) Read "Enable Setup Code"
2) Read the "QR minimum decoding length" setting code
3) Read the data code "4" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the "QR maximum decoding length" setting code
6) Read the following data codes: "6" "4" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

QR Large code Allow/Prohibit

$>:S0101AD.<$
Allow
（default）

$>:S0100AD.<$
Prohibit

Exit settings

Enter settings

Micro QR

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXXA0.<$

Enable/disable reading

allow
$>:S010198.<$

Prohibit
$>:S010098.<$
（default）

Enable/disable inversion

$>:S400098.<$
prohibit Inverted
（default）

$>:S404098.<$
allow Inverted

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

MICRO QR Maximum decoding length
（default：35）
$>: R000E52.<$

MICRO QR Minimum decoding length
（default：1）
$>: R000E72.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 20 bytes
1) Read "Enable Setup Code"
2) Read the setting code of "Micro QR Minimum Decoding Length"
3) Read the data code "4" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "Micro QR Maximum Decoding Length"
6) Read the following data codes: "1" "4" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

Han Xin Code

Restore factory defaults

Restore the default value of barcode related settings
$>:DEFXXA3.<$

Enable/disable reading

allow
$>:S01019B.<$

Prohibit
$>:S01009B.<$
（default）

Enable/disable inversion

$>:S02009B.<$
prohibit Inverted
（default）

$>:S02029B.<$
allow Inverted

Exit settings

Enter settings

Set the reading length

You can set the maximum and minimum bar code length. If the length of the bar code is inconsistent with the valid length, and the reading fails, the scanner will not send the content of the bar code to the host. The bar code length consists of minimum length and Maximum length. If the maximum length is smaller than the minimum length, only the bar codes of the two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

HANXIN Maximum decoding length
（default：1024）
$>: R000F22.<$

HANXIN Minimum decoding length
（default：1）
$>: R000F42.<$

Example

Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes

1) Read "Enable Setup Code"
2) Read the setting code of "HANXIN Minimum Decoding Length"
3) Read the data code "4" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the setting code of "HANXIN Maximum Decoding Length"
6) Read the following data codes: "6" "4" (see appendix)
7) Read the "Save" code (see appendix)
8) Read "Exit settings"

Exit settings

Enter settings

DOTCODE

allow
$>:S0101AE.<$

Prohibit
$>:S0100AE.<$
（default）

Exit settings

Enter settings

Chapter Ⅴ Data Format Editing

Introduction

In practical applications, we sometimes need to edit the read data before outputting it to facilitate data differentiation and processing.
Data editing includes: adding prefix, adding suffix, decoding information, adding terminator
The default output sequence of processed data is as follows: <prefix> <barcode data><suffix><terminator>

All prefix and suffix settings

Allow all types of prefixes and suffixes to be added
$>:S80804E.<$
（default）

Prohibit add any prefixes and suffixes
$>:S80004E.<$

Prefix order setting

Prefix + Code ID + AIM ID
$>:S01014E.<$

Code ID + Prefix + AIM ID
$>:S01004E.<$
（default）

Exit settings

Enter settings

Custom prefix

Custom prefix: The custom prefix adds a user-defined string before the decoded information. For example, it is allowed to add a custom prefix and set the prefix to be the string "AB". After reading the barcode with the data "123", the scanner adds the string "AB" before the string "123", and the host receives the string "AB123" ;

Allow adding custom prefixes
$>:S04044E.<$

Prohibit add custom prefix
$>:S04004E.<$
（default）

Set custom prefix
$>: R000505.<$

Example

Example: Set the custom prefix to "CODE" (hexadecimal value is 0x43/0x4F/0x44/0x45)
1) Read "Enable Setup Code"
2) Read the code "set custom prefix"
3) Read the following data codes: "4" "3" "4" "F" "4" "4" "4" "5" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the code "Allow adding custom prefixes"
6) Read "Exit settings"

Exit settings

Enter settings

Custom suffix

Custom suffix: Custom suffix is to add a user-defined character string after decoding the information. For example, it is allowed to add a custom suffix and set the suffix to the character string "AB". After reading the barcode with the data as "123", the scanner adds the character string "AB" after the character string "123", and the host receives the character string "123AB" .

Note: The total length of the custom suffix string cannot exceed 5 characters.

Allow adding custom suffixes
$>:S08084E.<$

Prohibit adding custom suffixes
$>:S08004E.<$
（default）

Set custom suffix
$>:R0005B5.<$

Example

Example: Set the custom suffix to "CODE" (the hexadecimal value is 0x43/0x4F/0x44/0x45)
1) Read "Enable Setup Code"
2) Read the code "set custom suffix"
3) Read the following data codes: "4" "3" "4" "F" "4" "4" "4" "5" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the code "Allow adding custom suffixes"
6) Read "Exit settings"

Exit settings

Enter settings

AIM ID

AIM is the abbreviation of Automatic Identification Manufacturers (Association of Automatic Identification Manufacturers). AIM defines identification codes for various standard barcodes. See the appendix for specific definitions. The scanner can add this identification code before the barcode data after decoding, that is, the AIM ID prefix.

Allow adding AIM ID
$>:S010182.<$

Prohibit adding AIM ID
$>:S010082.<$
（default）

Exit settings

Enter settings

Code ID

In addition to the AIM ID prefix that can be used to identify different barcode types, users can also use the Code ID prefix to identify barcode types. Unlike the AIM ID prefix, the Code ID prefix corresponding to each barcode type can be customized. The CodeID of all barcodes is 1 or 2 characters, and must be letters, and cannot be set as numbers, invisible characters, or punctuation marks, etc.

Allow adding CODE ID prefix
$>:S02024E.<$

Prohibitadding CODE ID prefix
$>:S02004E.<$
（default）

$>:DEFXXC2.<$
Restore all barcode Code ID to factory default

Set CODE ID prefix

For the method of modifying Code ID, please refer to the following example.
Example: Modify the Code ID of Code 128 to "p" (the hexadecimal value is 0x70)

1) Read "Enable Setup Code"
2) Read the "CODE128 CODE ID setting" code
3) Read data code: "7" (see appendix)
4) Read data code: "0" (see appendix)
5) Read the "Save" code (see appendix)
6) Read the code "Allow to add Code ID prefix"
7) Read "Exit settings.

Exit settings

Enter settings

Modify the Code ID setting code list of each barcode type:

CODE128 CODE ID
$>: R001342.<$

EAN CODE ID
$>: R001362.<$

CODE39 CODE ID
$>: R001382.<$

Plessey CODE ID
$>: R0016F2.<$

ITF CODE ID
$>: R0013C2.<$

CODABAR CODE ID
$>: R0013E2.<$

Exit settings

Enter settings

CODE93 CODE ID
$>: R001402.<$

CODE32 CODE ID
$>:R001792.<$

MATRIX25 CODE ID
$>: R001422.<$

CODE11 CODE ID
$>: R001442.<$

RSS GSICODE ID
$>: R001462.<$

MSI PLESSEY ID
$>: R001482.<$

STANDARD25 CODE ID
$>: R0014A2.<$

TELEPEN CODE ID
$>: R0014C2.<$

Exit settings

Enter settings

INDUSTRIAL25 CODE ID
$>: R0014E2.<$

QR CODE ID
$>: R001562.<$

DATA MATRIX CODE ID
$>: R001582.<$

MICRO QR CODE ID
$>: R0015A2.<$

MAXI CODE ID
$>: R0015C2.<$

AZTEC CODE ID
$>: R0015E2.<$

NEC25 CODE ID
$>: R001642.<$

DataLogic25 CODE ID
$>: R001692.<$

Exit settings

Enter settings

PDF417 CODE ID
$>: R001522.<$

Micro_PDF CODE ID
$>: R001752.<$

Hanxin CODE ID
$>: R001772.<$

Terminator

The terminator (such as carriage return, line feed) is used to mark the end of a complete data message. The terminator must be the final content when a piece of data is sent, and there will be no additional data after that.

Note: The total length of the terminator string cannot exceed 5 characters.

Allow adding terminator suffix
$>:S10104E.<$
（default）

Prohibit adding terminator suffix
$>:S10004E.<$

Exit settings

Enter settings

Set terminator

Read the following setting codes, you can quickly set the terminator to 0x0D (carriage return) or 0x0D, 0x0A (carriage return) or 0x09 (Tab), and allow the terminator to be added for sending.

Set terminator suffix
$>:R000655.<$

Set the terminator to 0x0D
$>:DEFXXC3.<$

Set the terminator to 0x0D,0x0A
$>:DEFXXC4.<$
（default）

Set the terminator to 0x09
$>:DEFXXC5.<$

The user can also customize the terminator: first read "Set terminator suffix", then read the hexadecimal value of the terminator suffix to be set in sequence, and finally read "Save".

Note: The total length of the terminator suffix string cannot exceed 5 characters.

Example

Example: Set the terminator suffix to 0x0A

1) Read "Enable Setup Code"
2) Read the code of "set terminator suffix"
3) Read the following data codes: "0" "A" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the code "Allow adding terminator suffix"
6) Read "Exit settings"

Exit settings

Enter settings

Set NGR information

After the function of sending NGR information is turned on, when the decoding timeout (button trigger), the scanner will send user-defined NGR information to the host to determine the reading failure; users can set their own customized content (up to 7 characters).

Send NGR message
$>:S40404E.<$

Do not send NGR messages
$>:S40004E.<$
（default）

Set NGR information
$>: R000767.<$

Example

Example: Set NGR information to "FAIL" (the hexadecimal value is 0x46/0x41/0x49/0x4C)
1) Read "Enable Setup Code"
2) Read the "Set NGR Information" code
3) Read the following data codes: "4" "6" "4" "1" "4" "9" "4" "C" (see appendix)
4) Read the "Save" code (see appendix)
5) Read the "send NGR message" code
6) Read "Exit settings"

Pattern name display

This function needs to be set to "Allow all types of prefixes and suffixes to be added". Add the code type name at the beginning of the scanning result. For example, [QR].

Allow display of pattern name
$>:S808082.<$

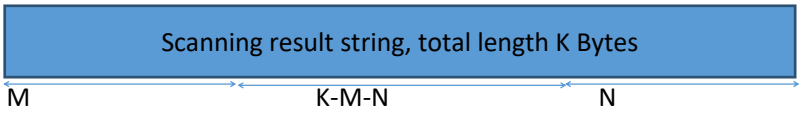
Prohibit display of pattern name
$>:S800082.<$

Exit settings

Enter settings

Data interception

Field interception refers to the secondary editing of the scan code result. Assuming that the scan code result data contains a total length of K bytes, the header is M bytes and the tail is N bytes. The value range of M and N is 0-255.



Keep only the head
$>:S180882.<$

Keep only the tail
$>:S181082.<$
（default）

Keep only the middle
$>:S181882.<$

Keep as it is
$>:S180082.<$
（default）

The head M value and the tail N value are set, and the length is set to 0-255, that is, 0x00-0xFF.

For example, set the value of M equal to 18 and the hexadecimal value of 0x12, first scan "head M value setting", then the numbers "1" and "2" respectively, and then scan "save".

Head M value setting
$>:R000831.<$

Tail N value setting
$>:R000841.<$

Exit settings

Enter settings

Chapter Ⅵ Batch Settings

Introduction

When multiple settings are required to read the device, it may be cumbersome to set one by one. At this time, we can save all the information that needs to be set as a barcode information, and the device can complete multiple settings after reading the barcode.
The following are the guidelines for batch processing:
1. The format of each command in the batch command is command + parameter.
2. The command ends with a semicolon, please note that there can be no spaces between each command.
3. Make the command into a QR code in the coding software.
4. Batch processing instructions start with $>:BATCHST.<$ and end with $>:BATCHET.<$
Notice:
Batch instructions cannot contain data codes. Where the data code is needed, specify it through command + parameter.
For example: set [Set custom prefix] to [A5A5]
It is expressed as follows in batch processing: $>:R000505.<$A5A5;
Example：

Classification	instruction	parameter	=CONCATENATE(B3, C3)	Note
Start instruction	$>:BATCHST.<$		$>:BATCHST.<$	Required, indicates the start of the batch instruction
Enter settings	$>:S01010F.<$		$>:S01010F.<$;	
Serial communication	$>:S0F0016.<$		$>:S0F0016.<$;	
Baud rate 115200bps	$>:S0F0847.<$		$>:S0F0847.<$;	
Allow all types of prefixes and suffixes to be added	$>:S80804E.<$		$>:S80804E.<$;	
Set custom prefix	$>:R000505.<$	A5A5	$>:R000505.<$A5A5 ;	
Allow adding custom prefixes	$>:S04044E.<$		$>:S04044E.<$;	
Prohibit add terminator suffix	$>:S10004E.<$		$>:S10004E.<$;	
Exit settings	$>:S01000F.<$		$>:S01000F.<$;	
End of instruction	$>:BATCHET.<$		$>:BATCHET.<$;	Required, indicates the end of the batch instruction

The instructions after synthesis are as follows:
$>:BATCHST.<$$>:S01010F.<$;$>:S0F0016.<$;$>:S0F0847.<$;$>:S80804E.<$;$>:R000505.<$A5A5;$>:S04044E.<$;$>:S10004E.<$;$>:S01000F.<$;$>:BATCHET.<$;

Exit settings

Enter settings

Chapter Ⅶ Decoding scene settings

Introduction

When using serial port or virtual serial port mode, you can use serial port commands to operate the scanner.

Operation steps: First confirm that the communication is established successfully, fill in the required command into the sending box, send it in hexadecimal format, click send, the setting is successful, the scanner will reply 0X05 + setting command content, if unsuccessful, it will reply 0X15.

Example: Set the scanner reading mode to induction mode

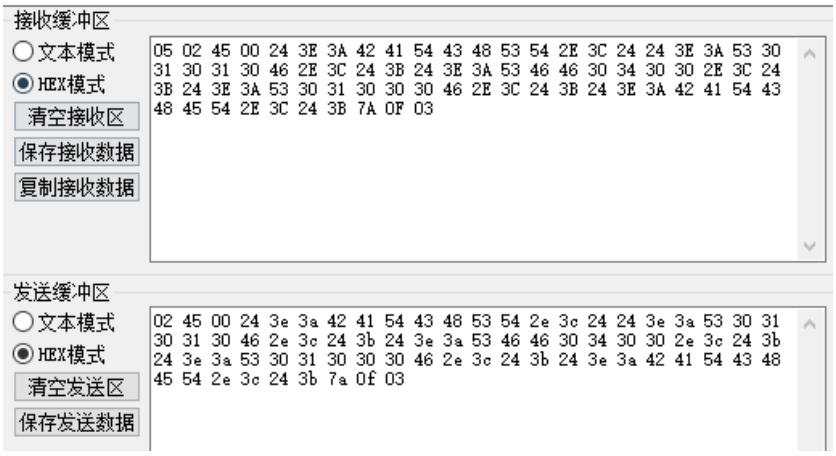
The content of batch setting code is:

$>:BATCHST.<$$>:S01010F.<$;$>:SFF0400.<$;$>:S01000F.<$;$>:BATCHET.<$;

The hexadecimal command content：02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 46 46 30 34 30 30 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 7a 0f 03

Set success reply：05 02 45 00 24 3E 3A 42 41 54 43 48 53 54 2E 3C 24 24 3E 3A 53 30 31 30 31 30 46 2E 3C 24 3B 24 3E 3A 53 46 46 30 34 30 30 2E 3C 24 3B 24 3E 3A 53 30 31 30 30 30 46 2E 3C 24 3B 24 3E 3A 42 41 54 43 48 45 54 2E 3C 24 3B 7A 0F 03

Setup failed reply: 15



Exit settings

Enter settings

Common setting command comparison table

set up	Hex commands
Enable single scan code	02 07 00 53 57 30 30 30 30 30 9A 01 03
Enable continuous scanning	02 07 00 53 57 30 30 30 30 31 9B 01 03
Stop reading codes	02 07 00 53 57 46 46 46 46 46 08 02 03
Serial output	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 30 46 30 30 31 36 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 67 0f 03
Serial port + baud rate 9600	02 53 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 30 46 30 30 31 36 2e 3c 24 3b 24 3e 3a 53 30 46 30 33 34 37 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 63 12 03
Serial port + baud rate 115200	02 53 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 30 46 30 30 31 36 2e 3c 24 3b 24 3e 3a 53 30 46 30 38 34 37 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 68 12 03
baud rate 9600	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 30 46 30 33 34 37 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 6e 0f 03
baud rate 115200	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 30 46 30 38 34 37 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 73 0f 03
USB keyboard output	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 30 46 30 31 31 36 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 68 0f 03
virtual serial output	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 30 46 30 32 31 36 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 69 0f 03

Exit settings

Enter settings

HID POS	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 30 46 30 35 31 36 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 6c 0f 03
manual mode	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 46 46 30 32 30 30 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 78 0f 03
Induction mode	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 46 46 30 34 30 30 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 7a 0f 03
continuous mode	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 46 46 30 31 30 30 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 77 0f 03
Manual automatic code reading	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 46 46 30 33 30 30 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 79 0f 03
reset	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 30 31 30 31 38 36 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 5a 0f 03
Save as user default	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 56 44 45 46 30 32 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b b1 0f 03
revert to user default	02 45 00 24 3e 3a 42 41 54 43 48 53 54 2e 3c 24 24 3e 3a 53 30 31 30 31 30 46 2e 3c 24 3b 24 3e 3a 53 30 32 30 32 38 36 2e 3c 24 3b 24 3e 3a 53 30 31 30 30 30 46 2e 3c 24 3b 24 3e 3a 42 41 54 43 48 45 54 2e 3c 24 3b 5c 0f 03

Exit settings

Enter settings

appendix

Data code

Be sure to read “Save” after reading the data code to save the data code settings.

0~9

$>:N000000.<$
0

$>:N000001.<$
1

$>:N000002.<$
2

$>:N000003.<$
3

Exit settings

Enter settings

$>:N000004.<$
4

$>:N000005.<$
5

$>:N000006.<$
6

$>:N000007.<$
7

$>:N000008.<$
8

$>:N000009.<$
9

Exit settings

Enter settings

A~F

$>:N00000A.<$

A

$>:N00000B.<$

B

$>:N00000C.<$

C

$>:N00000D.<$

D

$>:N00000E.<$

E

$>:N00000F.<$

F

Exit settings

Enter settings

Save or cancel

After reading the data code, you need to read the save code to save the read data.If an error occurs while reading the data code, in addition to resetting, you can cancel reading the wrong data.

If you read a certain setting code and read the data "1", "2", "3" in turn, if you read "Cancel the previous reading of one bit of data", the last read number "3" will be canceled. If you read "Cancel a series of data read before", the data "123" will be canceled.

$>:N000012.<$
0X12
save

$>:N000010.<$
0X10
Cancel one bit of data read last time

$>:N000011.<$
0X11
Cancel a string of data read before

Exit settings

Enter settings

Default setting table

parameter name		default setting	Note
System settings			
Setting code function		prohibit	
Setting code information		Do not send	
Reading mode		Single mode	
Single mode	Single reading time	3000ms	
Continuous mode	Single reading time	3000ms	
	Reading interval time	1000ms	
Trigger mode		default trigger (command + key)	Commands and keys are always allowed
Sensitivity of induction mode		extra high	
Prompt for successful reading		allow	
Audio frequency of successful reading prompt		IF	
Succeeded reading tone duration		80ms	
LED prompt for reading success		allow	
Power-on prompt		allow	
Prompt method		Beep	
illumination		Lights up when reading	
Aim the light		Lights up when reading	

Exit settings

Enter settings

parameter name		default setting	Note
Communication settings			
Communication method		USB CDC	
USB communication	Key delay	No delay	
	National keyboard layout	American keyboard	
	HID transmission mode	Raw data sending	
Serial communication	Baud rate	9600	
	check	No check	
	Data bit	8 bit	
Data format setting			
Data format setting	Allow all prefixes and suffixes to be added	ON	
	Prefix order setting	CODE ID+Custom prefix+AIMID	
	Add custom prefix	Off	Up to 5 prefix characters
	Add AIMID prefix	Off	]Cm logo
	Add CODE ID prefix	Off	1 or 2 characters, uppercase or lowercase letters
	Add custom suffix	Off	Up to 5 suffix characters
	Add terminator suffix	On--0x0D,0x0A	Allowed, carriage return and line feed
	NGR information	Do not send	

Exit settings

Enter settings

Aim id list

Barcode type	AIM ID	instruction
Code128/AIM128/EAN128/NL128	]C0	
UPC/EAN/ISSN/ISBN	]E3	UPC-A EAN13 ISSN ISBN with additional code
	]E0	
Codabar	]F0	Standard data packet, no special treatment
	]F1	Used for American blood center management
	]F2	Check, and send check character
	]F4	Check, but do not send check characters
Code 39	]A4	No check, no Full ASCII extension. All data is sent as originally
	]A5	MOD 43 check, and send check character
	]A7	MOD 43 check, but do not send check character
	]A4	Carried out Full ASCII expansion, but no verification
	]A5	Expanded, MOD43 checksum, and send check character
	]A7	Expanded, MOD43 check, but no check character is sent
CODE 93	]G0	
Code11	]H3	
Standard 25	]R8	
Industrial 2 of 5	]S0	
ITF-25/ITF-14/ITF-6/ Deutsche12/ Deutsche14	]I0	No verification
	]I1	Check and send check character
	]I3	Check but do not send check character

Exit settings

Enter settings

Barcode type	AIM ID	instruction
Matrix 25	]X0	
	]X1	No verification
	]X2	MOD10 check, and output check character
	]X3	MOD11 check and output check character
Datalogic 25	]Z0	
MSI-Plessey	]M0	
Plessey	]Z0	
RSS-EXP /RSS_14/GS1	]e0	
Telepen	]B0,]B1,]B2,]B4	
AZTEC	]U0	
Data Matrix	]d1	ECC200
MaxiCode	]U0	
PDF417	]L0	1994 PDF417
Micro PDF417	]l3	
QR	]Q0	
Micro QR	]Z0	
HAN XIN	]X0	

Reference: iso/iec 15424:2008 Information Technology – Automatic Identification and Data Acquisition Techniques – Data Carrier Identifiers (including Symbolic Representation Identifiers)

Exit settings

Enter settings

Code ID list

Barcode type	Code ID
Code128/AIM128/EAN128/NL128	j
UPC/EAN/ISSN/ISBN	d
CODABAR	a
CODE 39	b
CODE 93	i
CODE 11	H
ITF-25/ITF-14/ITF-6/ Deutsche12/ Deutsche14	e
Industrial 25	D
MATRIX25	v
Japan Matrix 25/NEC 25	q
Standard 25	s
Datalogic 25	w
MSI-Plessey	m
Plessey	p
RSS-EXP /RSS_14/GS1 Data	y
Telepen	t

Exit settings

Enter settings

Barcode type	Code ID
AZTEC	Z
Data Matrix	u
Maxi CODE	x
PDF417	r
Micro PDF	R
QR code	s
Micro QR	S
HAN XIN	g

Exit settings

Enter settings

ASCII code table

Hexadecimal	Decimal	character
0	0	NUL （Null char.）
1	1	SOH （Start of Header）
2	2	STX （Start of Text）
3	3	ETX （End of Text）
4	4	EOT （End of Transmission)
5	5	ENQ （Enquiry）
6	6	ACK （Acknowledgment）
7	7	BEL （Bell）
8	8	BS （Backspace）
9	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）

Exit settings

Enter settings

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	#NAME?
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

Exit settings

Enter settings

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

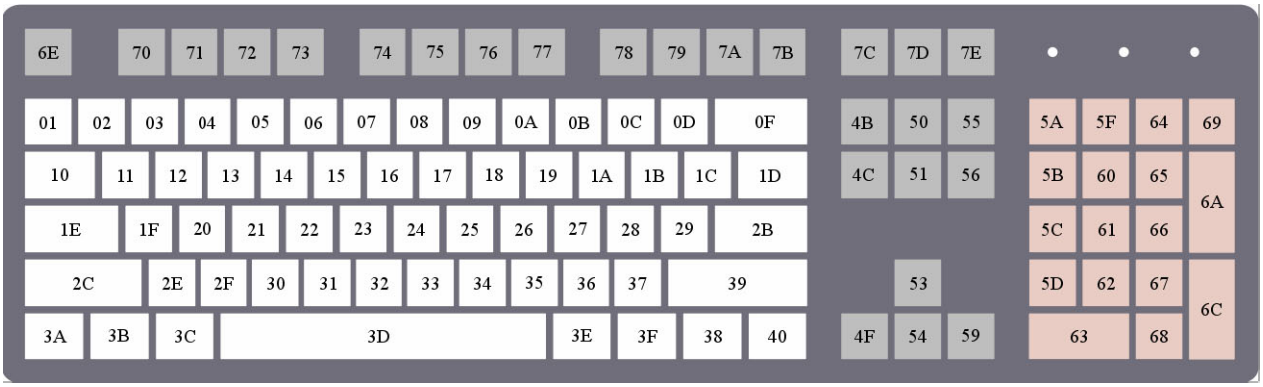
Exit settings

Enter settings

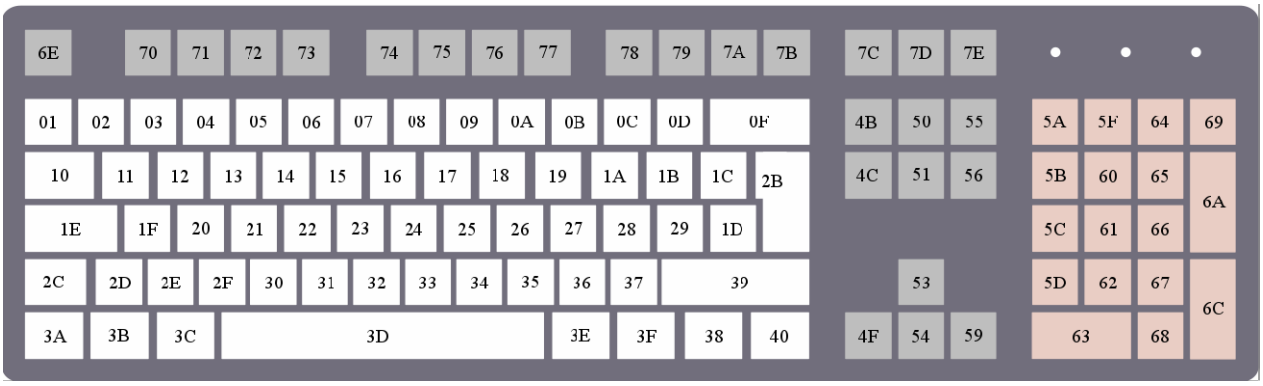
79	121	y
7a	122	z
7b	123	{ （Left/ Opening Brace）
7c	124	| （Vertical Bar）
7d	125	} （Right/Closing Brace）
7e	126	~ （Tilde）
7f	127	DEL （Delete）

Exit settings

Keyboard key number



104-key American keyboard



105-key European keyboard