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Upgrades network

PROGRAMMING GUIDE

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2D OMNIDIRECTIONAL DESKTOP BARCODE SCANNER

BC460

Setup barcodes · Every setting in one guide



blackcopper.net

Please read this guide before using the scanner and keep it for future reference.

00

USING THIS GUIDE

Before you start

How to use the setup barcodes

1. Scan **Enter setup**, then the barcode of the setting you want. The scanner beeps to confirm and keeps the setting when it is unplugged.
2. Settings marked DEFAULT are the factory settings.
3. Some settings need a number: scan the setting, then the digits in Appendix A, then **Save**.
4. Finish with **Exit setup**. Cover neighbouring barcodes with your hand if the window sees more than one.
5. Lost? Scan **Restore factory defaults** in chapter 1 and start again.

What is in this guide

Every setting the scanner understands, grouped the way you use it: the basics first, then light and sound, then how it talks to the computer, then one part per barcode type, and finally data formatting. Appendix A holds the digit barcodes you need for settings that take a number.

01

PART 1 · SETUP BARCODES · ENTER, EXIT AND DEFAULTS

Getting started

How to use the setup barcodes

1. Scan **Enter setup**, then the barcode of the setting you want. The scanner beeps to confirm and keeps the setting when it is unplugged.
2. Settings marked DEFAULT are the factory settings.
3. Some settings need a number: scan the setting, then the digits in Appendix A, then **Save**.
4. Finish with **Exit setup**. Cover neighbouring barcodes with your hand if the window sees more than one.
5. Lost? Scan **Restore factory defaults** in chapter 1 and start again.

Settings

Scan the " Start Setup " barcode to activate the setup barcode function. You can configure the scanner by scanning the setup barcode. To exit the setup barcode function, simply scan the " Exit Setup " barcode or a barcode other than the setup barcode.



Exit setup DEFAULT



Enter setup

Setup code feedback

The setup code information can be sent to the host. The factory default setting is " Do not send setup code information ", in which case the setup code information will not be sent to the host.



Do not send DEFAULT



Send

Factory default settings

All scanners have a factory default setting. Reading the " Load Factory Defaults " barcode will restore all properties of the scanner to the factory state.



Load factory defaults DEFAULT

User Defaults

In addition to the factory default settings, you can save the settings you frequently use as user default settings.



Save user defaults



Load user defaults

Getting started

Query system information

obtain product information by reading the " Query System Information " setup code. After reading this setup code, the scanner will immediately transmit the product information to the host.



Query system information

Query product name

You can obtain the product name by reading " Query Product Name ". After reading this setting code, the scanner will immediately transmit the product name to the host.



Query product name

Check the firmware version number

You can obtain the device firmware version number by scanning the " Query Firmware Version Number " barcode. After reading this setup barcode, the scanner will immediately transmit the firmware version number to the host.



Query the firmware version number

Query the decoder version number

obtain the product's decoding library version number by reading " Query Decoder Version Number ". After reading this setup barcode, the scanner will immediately transmit the decoding library version number to the host.



Query the decoder version number

Query data format editing version number

obtain the version number of the product's data format editing function by scanning " Query Data Format Editing Version Number ".



Query data format editing version number

Getting started

Query hardware information

obtain the hardware version information of the product by reading " Query Hardware Information ". After reading this setting code, the scanner will immediately transmit the hardware information to the host.



Query hardware information

Query product serial number

obtain the product serial number information by scanning " Query Product Serial Number ". After reading this setup code, the scanner will immediately transmit the product serial number to the host.



Query product serial number

Check product production date

You can obtain the product's production date by scanning " Query Product Production Date ". After reading this setting code, the scanner will immediately transmit the product's production date to the host.



Check product production date

Query product OEM serial number

You can obtain the product OEM serial number information by scanning " Query Product OEM Serial Number ". After reading this setup code, the scanner will immediately transmit the product OEM serial number to the host.



Query product OEM serial number

Scanner settings

Lighting



On DEFAULT



Off

Aiming light



On DEFAULT



Off

Decoding successful LED light setting



On DEFAULT



Off

Decoding successful LED light duration setting

You can choose from 20 ms, 120 ms, 220 ms, and 320 ms fast settings.



Short (20 ms)



Medium (120 ms) DEFAULT



Long (220 ms)



Features (320 ms)



Decoding successful LED light duration custom setting (range

Scanner settings

3. Data code "8", "0", "0" (See Appendix - Data Code)

Read " Save " (See Appendix - Save or Cancel) Read " Exit Settings "


100 ms


200 ms


300 ms


400 ms


500 ms DEFAULT


600 ms


700 ms


800 ms


900 ms


1000 ms


1100 ms


1200 ms


1300 ms


1400 ms


1500 ms


1600 ms

Power-on tone


On DEFAULT


Off

Decoding success sound setting

Read " Off " to disable the decoding success sound, and read " On " to restore the decoding success sound prompt.


On DEFAULT


Off

Scanner settings

Decoding success sound duration setting

You can choose from fast settings of 40 ms, 80 ms, and 120 ms. 20-300 ms) Set the decoding success tone duration to 200 ms.



Short (40 ms)



Medium (80 ms) DEFAULT



Long (120 ms)



Decoding success sound duration custom setting (range

Decoding success sound frequency setting

20-20000Hz) 20-20000Hz) Set the decoding success tone frequency to 2000Hz. You can set it by reading the following barcodes in sequence: Read Startup Settings Read " Customized settings for decoding success sound frequency "



Lowest (800Hz)



Low (1600Hz)



Medium (2730Hz) DEFAULT



High (4200Hz)



Customize the decoding success sound frequency (range



Lowest (930Hz)



Low (2700Hz)



Medium (3940Hz)



High (4800Hz)



Customize the decoding success sound frequency (range

Scanner settings

Decoding success sound volume setting



Big DEFAULT



Medium



Small



Decoding success sound volume setting (range: 1-20)

Reading mode

Level trigger mode: Press and hold the trigger button to start code reading; code reading ends when the code is successfully read or the trigger button is released.



Level trigger mode DEFAULT



Sensing Mode



Continuous code reading mode



Pulse Mode



Batch code reading mode

Single-read timeout

A barcode reading timeout: The amount of time the scanner is in the barcode reading state. The setting range is 0 to 3600000 milliseconds. When set to 0, the scanner will be in the barcode reading state all the time. Default: 3000 milliseconds.



A code reading timeout

Image stabilization timeout (sensing mode)

In sensing mode, after the scanner stops reading a barcode, it begins a process of re-adapting to changes in the reading environment (image).



Image stabilization timeout (sensing mode)

Scanner settings

Reread Delay

On: If the scanner reads a barcode and reads the same barcode a second time within the reread delay time, the second read barcode will be ignored and not output. Off: Reread Delay is disabled. The scanner can continue to read the same barcode at any time.



On



Off DEFAULT

Reread delay time

It is used to prevent the same barcode from being read twice in a row. The reread delay setting is the minimum time interval that allows continuous reading of barcodes of the same type and data.



Reread delay time

Reread timeout reset

When the reread timeout reset is turned on, if the time interval between reading the same barcode twice is less than the "reread delay time", the reread interval time will be reset to zero and re-timed.



On



Off DEFAULT

Delay in reading code successfully

the scanner will not be able to read any barcode successfully within a period of time after the barcode is successfully read (the barcode reading delay time). Default: Off.



On



Off DEFAULT

Delay time for successful code reading

The length of time to pause reading after a successful code reading. The setting range is 1 to 3600000 milliseconds, and the default is 500 milliseconds. Set the delay time for successful barcode reading to 1000 milliseconds.



Delay time for successful code reading

Scanner settings

Decoding timeout

The timeout for each image decoding operation of the scanner. The setting range is from 1 to 3000 milliseconds, and the default is 800 milliseconds.



Decoding timeout

Brackets around GS1 Application Identifiers (GS1 AIs)

Brackets around GS1 Application Identifier is on, a ' (' is added to the left of the GS1 Application Identifier and a ') ' is added to the right.



Disable DEFAULT



Enable



Example barcode

Sensitivity

Sensitivity specifies how responsive the scanner is to changes in the scanned image when in Sensing mode. This setting is only valid for Sensing mode in Reading mode. The range for Custom Sensitivity is 1 to 20. The default is Medium (11).



Low



Medium DEFAULT



High



Enhancement



Custom

Serial trigger command

When the reading mode is set to level trigger mode, the serial communication command "Start Reading" can be used to trigger code reading.



Disable DEFAULT



Enable

Modify the start code reading instruction

code reading command can simulate a key press. The command supports 1 to 10 characters, and the character value range is 1 to 0xFF. The first character cannot be '?' (i.e. 0x3F). The default command is: <SOH> T <EOT>



Modify the start code reading instruction

Scanner settings

Modify the stop code reading instruction

The Stop Read command simulates a key release. This command can contain 1 to 10 characters, with a value range of 1 to 0 x FF. The first character cannot be '?' (i.e., 0 x 3 F). The default command is: <SOH > P <EOT>



Modify the stop code reading instruction

Auto sleep

When the scanner is set to trigger or pulse mode, it enters a low-power sleep state when the scanner has been idle for a specified period of time. "Idle" means no buttons are pressed and no communication is occurring with the host.



Disable



Allow DEFAULT

Set idle time conditions

The idle timeout condition determines the amount of time the scanner remains idle before entering sleep mode. The setting range is 0 – 65535 milliseconds. The default is 500 milliseconds.



Set idle time conditions

Reading preference



Ordinary DEFAULT

Read after power-on

Disable: After power on, the scanner is in the disabled code reading state, and the lighting and aiming lights are off. You can enable code reading by sending a command to the scanner.



Allow DEFAULT



Disable

Central decoding area

Full area decoding: Select the entire area (whole picture) of the captured image for decoding, and only output the first barcode read. Center Area Decoding: The center of the barcode must be within the specified area for successful reading.



Full region decoding DEFAULT



Central area decoding

Scanner settings

Set the center area

The size of the region is determined by the ratio of the image's width to its height. You need to set the top, bottom, left, and right limits of the center region, ranging from 0 to 100.



Top of the center area



Bottom of the center area



Left side of the center area



Right side of the center area

Image flip

The image supports horizontal flip and vertical mirror output functions. Images taken by the scanner can be obtained through EasySet.



Normal image DEFAULT



Flip Horizontal



Flip vertically



Horizontal and vertical flip

No-read message

Enable: When the code reading fails, a code reading failure message is sent after the key is released or the code reading times out. Disable: If the code reading fails, the code reading failure message will not be sent.



Disable DEFAULT



Enable

Modify the code reading failure information (NGR information)

The NGR message supports 1 to 7 characters, with a value range of 0 to 0xff. The default is NG.



Modify the code reading failure information (NGR information)

Interface and keyboard

USB keyboard

When connected via a USB cable, you can set the scanner to HID Keyboard input mode. In this mode, the scanner becomes a virtual keyboard, and the receiving host accepts input from this virtual keyboard just like a real keyboard.



USB keyboard DEFAULT

National keyboard layout

The layout and symbols of keyboard keys in different languages may vary. Therefore, the scanner can simulate keyboards in different countries as needed. The default is a US keyboard. U.K.



American English DEFAULT



Belgium



Brazil



Canada (French)



Czechoslovakia



Denmark



Finnish (Swedish)



France



Germany / Austria



Greece



Hungary



Israel (Hebrew)



Italy



Latin America



Netherlands (Dutch)



Norway



Poland



Portugal

Interface and keyboard

National keyboard layout (continued)


Romania


Russia


Slovakia


Spain


Sweden


Switzerland (German)


Turkey F


Turkish Q


Example barcode


Japan

Unknown character prompt tone

Due to differences in keyboard layouts, some characters contained in the barcode data may not be available on the selected keyboard. Therefore, the scanner cannot transmit unknown characters.


Off DEFAULT


On

Interface and keyboard

Keyboard emulation input characters

When keyboard emulation is enabled, characters are sent via the numeric keypad, ignoring the national keyboard layout settings. This mode also requires setting up Code Page selection and Unicode output.



Off DEFAULT



On



Code Page 1252 (Latin, Western European) DEFAULT



Code Page 1251 (Cyrillic)



Code Page 1250 (Central European)



Code Page 1253 (Greek)



Code Page 1254 (Turkish)



Code Page 1255 (Hebrew)



Code Page 1256 (Arabic)



Code Page 1257 (Baltic Sea)



Code Page 1258 (Vietnamese)



Code Page 874 (Thai)

Keyboard emulation input characters (continued)



Off DEFAULT



On



Off



On DEFAULT

Interface and keyboard

Control character output

ASCII characters between 0x00 and 0x1F can be converted into a control key. The operation of inputting the control key in the virtual keyboard is as follows.



Off DEFAULT



Control + ASCII mode



Alt + Keypad mode

Key Delay

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



No delay DEFAULT



Long delay (40 ms)



Short delay (20 ms)



Key delay setting (range: 0-100)

Caps Lock Settings

When on, reverses the case of uppercase and lowercase characters contained in barcode data. This inversion occurs regardless of the state of the Caps Lock key on the host keyboard. Default: Off.



Off (non-Japanese keyboard) DEFAULT



On (non-Japanese keyboard)



Off (Japanese keyboard)



On (Japanese keyboard)

Case conversion

Scan the appropriate barcode below to convert all barcode data to the desired case. Default: No conversion.



Not converted DEFAULT



Convert all characters to uppercase



Convert all characters to lowercase

Interface and keyboard

Simulate numeric keypad

Numeric characters using the numeric keypad If this function is not enabled, all outputs will be output according to the corresponding key values on the main keyboard.



Off DEFAULT



On



Off DEFAULT



On

Fast Mode

Turning on Fast Mode allows the scanner to send characters to the host more quickly. If the host is discarding characters, do not use Fast Mode or increase the polling speed setting.



Off DEFAULT



On

Polling speed

1 to 10 milliseconds using the following setup code. The lower the setting, the faster the scanner can send characters to the host. If the host is discarding characters, increase the polling speed setting.



1 ms



2 ms



3 ms



4 ms DEFAULT



5 ms



6 ms



7 ms



8 ms



9 ms



10 ms

Interface and keyboard

USB CDC serial port

When you use USB connection and want the host to receive data via serial port, you should use USB virtual serial port. From the perspective of the host system interface, the scanner is equivalent to connecting to the host via serial port.



USB CDC serial port

Introduction

HID POS The interface is recommended for new applications. It can send 56 in the message characters and is faster than an emulated keyboard interface. Features: HID -based Interface, no custom driver required.



HID POS

Settings



IBM SurePOS (Tabletop)

Settings



IBM SurePOS (Handheld)

PART 4 · SETUP BARCODES · ALL TYPES ON OR OFF

Barcode types

Allow all barcodes

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



Enable all barcodes

Prohibit all barcodes

Read " Prohibit reading of all barcodes ", the scanner will only be able to read the setting code, and all barcodes except the setting code will not be able to be read.



Prohibit all barcodes

Allow all 1D codes



Enable all 1D barcodes

All 1D codes are prohibited



Prohibit all 1D barcodes

Allow all QR codes



Enable all QR barcodes

Prohibit all QR codes



Prohibit all QR codes

Barcode types

1D barcode double code

Dual 1D barcode: Two 1D barcodes are arranged one above the other. The two codes must be aligned in the same direction, with minimal discrepancy and as close a distance as possible.



Only reads single 1D barcode DEFAULT

Reverse barcode reading

A normal barcode is one with a light background and a dark foreground. A reverse barcode, also known as a reverse color barcode, is one with a dark background and a light foreground.



Reverse barcode reading prohibited DEFAULT



Allows reading of reverse barcodes

Code 128

Restore factory defaults



Code 128 factory default setting DEFAULT

Enable / disable reading

If the scanner cannot recognize the Code 128 barcode, try scanning the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

Code 128 barcodes that are within (and include) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127. If the maximum length is less than the minimum length, only barcodes of these two lengths will be read.



Minimum length (default: 1)



Maximum length (default: 127)

Transmit check character



Transmit



Do not transmit DEFAULT

FNC1 output



Off



On DEFAULT

EAN-8

Restore factory defaults



EAN-8 factory default setting DEFAULT

Enable / disable reading



Enable DEFAULT



Disable

Transmit check character

The EAN-8 barcode data is fixed at 8 bytes, of which the last byte is the check character.



Transmit DEFAULT



Do not transmit

2 -bit extension code

The 2-digit extension code refers to the 2-digit barcode added after the normal barcode. The following figure shows a barcode with a 2-digit extension code. The blue box on the left is the normal barcode, and the red box on the right is the normal barcode.



Do not read 2-digit add-on DEFAULT



Read 2-digit add-on

5 -bit extension code

The 5-digit extension code refers to the 5-digit barcode added after the normal barcode. The following figure shows a barcode with a 5-digit extension code. The blue box on the left is the normal barcode, and the red box on the right is the normal barcode.



Do not read 5-digit add-on DEFAULT



Read 5-digit add-on

Extension code must be appended

When the Must append extension code setting is set to Required, the scanner only reads EAN-8 that includes the extension code.



Not required DEFAULT



Required

EAN-13

Restore factory defaults



EAN-13 factory default setting DEFAULT

Enable / disable reading



Enable DEFAULT



EAN-13 is prohibited

Transmit check character



Transmit DEFAULT



Do not transmit

2 -bit extension code

The 2-digit extension code refers to the 2-digit barcode added after the normal barcode. The following figure shows a barcode with a 2-digit extension code. The blue box on the left is the normal barcode, and the red box on the right is the normal barcode.



Do not read 2-digit add-on DEFAULT



Read 2-digit add-on

5 -bit extension code

The 5-digit extension code refers to the 5-digit barcode added after the ordinary barcode. The following figure shows a barcode with a 5-digit extension code.



Do not read 5-digit add-on DEFAULT



Read 5-digit add-on

Extension code must be appended

When the Must append extension code setting is set to Required, the scanner only reads EAN-13 that includes the extension code.



Not required DEFAULT



Required

EAN-13

EAN-13 starting with 290 must have an extension code

Set this to Required and the scanner reads EAN-13 codes beginning with 290 only when they carry an add-on.



Not required DEFAULT



Required

EAN-13 starting with 378/379 must have an extension code

Requirement: 378 or 379 EAN-13 with the starting character An extended code scanner is required to read successfully.



Not required DEFAULT



Required

EAN-13 starting with 414/419 must have an extension code

Request: 414 or 419 EAN-13 with the starting character An extended code scanner is required to read successfully.



Not required DEFAULT



Required

EAN-13 starting with 434/439 must have an extension code

Request: 434 or 439 EAN-13 with the starting character An extended code scanner is required to read successfully.



Not required DEFAULT



Required

EAN-13 starting with 977 must have an extension code

Requirements: 977 EAN-13 with the starting character An extended code scanner is required to read successfully.



Not required DEFAULT



Required

EAN-13 starting with 978 must have an extension code

Requirements: 978 EAN-13 with the starting character An extended code scanner is required to read successfully.



Not required DEFAULT



Required

EAN-13

EAN-13 starting with 979 must have an extension code

Requirements: 979 EAN-13 with the starting character An extended code scanner is required to read successfully.



Not required DEFAULT



Required

UPC-E

Restore factory defaults



UPC-E factory default settings DEFAULT

Enable / disable reading

If the scanner cannot recognize the UPC-E barcode, try reading the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Transmit check character

The UPC-E barcode data is fixed at 8 bytes, of which the last byte is the check character.



Transmit DEFAULT



Do not transmit

2 -bit extension code

The 2-digit extension code refers to the 2-digit barcode added after the normal barcode. The following figure shows a barcode with a 2-digit extension code. The blue box on the left is the normal barcode, and the red box on the right is the normal barcode.



Do not read 2-digit add-on DEFAULT



Read 2-digit add-on

5 -bit extension code

The 5-digit extension code refers to the 5-digit barcode added after the normal barcode. The following figure shows a barcode with a 5-digit extension code. The blue box on the left is the normal barcode, and the red box on the right is the normal barcode.



Do not read 5-digit add-on DEFAULT



Read 5-digit add-on

Extension code must be appended

When Must append extension code is set to Required, the scanner only reads UPC-Es that include an extension code.



Not required DEFAULT



Required

UPC-E

Send leading character

The leading characters are part of the UPC symbol and include the country code ("0" for the United States) and the system character ("0"). (Country code and system characters are not transmitted)



Transmit system character DEFAULT



Do not transmit leading characters



Transmit country code and system character

Convert to UPC-A

Convert UPC-E barcodes to UPC-A type barcodes, and then process the barcode information according to UPC-A settings.



Does not convert to UPC-A DEFAULT

UPC-A

Restore factory defaults



UPC-A factory default setting DEFAULT

Enable / disable reading

If the scanner cannot recognize the UPC-A barcode, try reading the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Transmit check character



Transmit DEFAULT



Do not transmit

2 -bit extension code

The 2-digit extension code refers to the 2-digit barcode added after the normal barcode. The following figure shows a barcode with a 2-digit extension code. The blue box on the left is the normal barcode, and the red box on the right is the normal barcode.



Do not read 2-digit add-on DEFAULT



Read 2-digit add-on

5 -bit extension code

The 5-digit extension code refers to the 5-digit barcode added after the normal barcode. The following figure shows a barcode with a 5-digit extension code. The blue box on the left is the normal barcode, and the red box on the right is the normal barcode.



Do not read 5-digit add-on DEFAULT



Read 5-digit add-on

Extension code must be appended

When the Must Add Extension Code setting is set to Required, the scanner only reads UPC-As that include the extension code.



Not required DEFAULT



Required

UPC-A

Send leading character

The leading characters are part of the UPC symbol and include the country code ("0" for the United States) and the system character ("0"). (Country code and system characters are not transmitted)



No leading characters are transmitted DEFAULT



Transmit system character



Transmit country code and system character

Interleaved 2 of 5

Restore factory defaults



Interleaved 2 of 5 factory default setting DEFAULT

Enable / disable reading

If the scanner cannot recognize the Interleaved 2 of 5 barcode, try scanning the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

Interleaved 2 of 5 barcodes whose length is between (and including) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127.



Minimum length (default: 6)



Maximum length (default: 100)

Check

Interleaved 2 of 5 barcode data does not require a check character. If a check character is present, it must be the last byte of the data. The check character is a value calculated from all data except the check character and is used to verify data accuracy.



Disable DEFAULT



Enable, do not transmit check digit



Enable, transmit check digit

Febraban



No Febraban DEFAULT



Enable Febraban without information expansion



Enable Febraban for information expansion

Interleaved 2 of 5

Febraban barcode output delay

Febraban Output delay of each barcode character Febraban Output delay time setting for each character of barcode Febraban after character expansion Barcode every 12 Character output delay Febraban after character expansion Barcode every 12 Character output...



Disable DEFAULT



Enable



0 ms



5 ms



10 ms



15 ms



20 ms



25 ms



30 ms



35 ms



40 ms



45 ms



50 ms



55 ms



60 ms



65 ms



70 ms DEFAULT



75 ms

Interleaved 2 of 5

Febraban barcode output delay (continued)



Disable DEFAULT



Enable



0 ms



300 ms



400 ms



500 ms DEFAULT



6 00 ms



700 ms



8 00 ms



900 ms

ITF-14

Restore factory defaults



ITF-14 factory default settings DEFAULT

Enable / disable reading

ITF-14 is allowed but Interleaved 2 of 5 is disabled, due to the ITF-14 priority principle, Interleaved 2 of 5 codes with a length of 14 bytes and a check character at the last byte can be read, but other types of Interleaved 2 of 5 codes cannot.



Disable



Enable, do not transmit check digit DEFAULT



Enable, transmit check digit

ITF-6

Restore factory defaults



ITF-6 factory default settings DEFAULT

Enable / disable reading

For example, it allows reading ITF-6 But it is forbidden to read Interleaved 2 of 5 Code, according to ITF-6 Priority principle, there will be a length of 6 Byte and last 1 Bytes of data are interleaved for check characters 2 of 5 The code can be read but...



Disable



Enable, do not transmit check digit DEFAULT



Enable, transmit check digit

Matrix 2 of 5

Restore factory defaults



Matrix 2 of 5 factory default settings DEFAULT

Enable / disable reading

If the scanner cannot recognize the Matrix 2 of 5 barcode, try scanning the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

Matrix 2 of 5 barcodes whose length is between (and including) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127.



Minimum length (default: 6)



Maximum length (default: 127)

Check

Matrix 2 of 5 barcode data does not require a check character. If a check character is present, it must be the last byte of the data. The check character is a value calculated from all data except the check character and is used to verify data accuracy.



Disable DEFAULT



Enable, do not transmit check digit



Enable, transmit check digit

Code 39

Restore factory defaults



Code 39 factory default setting DEFAULT

Enable / disable reading

If the scanner cannot recognize the Code 39 barcode, try scanning the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

Code 39 barcodes that are within (and including) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127.



Minimum length (default: 1)



Maximum length (default: 127)

Check

Code 39 barcode data does not require a check character. If a check character is present, it must be the last byte of the data. The check character is a value calculated from all the data except the check character and is used to verify data accuracy.



Disable DEFAULT



Enable, do not transmit check digit



Enable, transmit check digit

Start and end characters

You can set whether to transmit the start and end characters together with the barcode data after the barcode is read successfully.



Do not transmit DEFAULT



Transmit

Code 39

Full ASCII

Enabling Code 39 Full ASCII enables the function of reading full ASCII characters.



Code 39 Full ASCII prohibited DEFAULT



Enable Code 39 Full ASCII

Code32 Pharmaceutical (PARAF)

Code 32 Pharmaceutical is a variant of the Code 39 barcode used in Italian pharmacies. This barcode is also known as PARAF. The output format of Code 32 is: * + A + 8 digits + 1 check digit + *.



Disable DEFAULT



Enable



Disable DEFAULT



Enable



Do not transmit DEFAULT



Transmit



Do not transmit DEFAULT



Transmit

Codabar

Restore factory defaults



Codabar factory default settings DEFAULT

Enable / disable reading

If the scanner cannot recognize the Codabar barcode, please try to read the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

Codabar barcodes that are within (and including) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127.



Minimum length (default: 1)



Maximum length (default: 127)

Check

Codabar barcode data does not require a check character. If a check character is present, it must be the last byte of the data. The check character is a value calculated from all data except the check character and is used to verify that the data is correct.



Disable DEFAULT



Enable, do not transmit check digit



Enable, transmit check digit

Start and end characters

Codabar barcode data has one byte of data before and after as the start character and the end character. The start character and the end character are one of the four characters "A", "B", "C", and "D".



Do not transmit



Transmit DEFAULT

Codabar

Start and end character formats



ABCD/ABCD DEFAULT



ABCD/TN*E



Abcd/abcd



Abcd/tn*e

Code 93

Restore factory defaults



Code 93 factory default setting DEFAULT

Enable / disable reading

If the scanner cannot recognize the Code 93 barcode, try scanning the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

Code 93 barcodes that are within (and including) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127.



Minimum length (default: 3)



Maximum length (default: 127)

Check

Code 93 barcode data does not require a check character. If a check character is present, it must be the last two characters of the data.



Disable



Enable, do not transmit check digit DEFAULT



Enable, transmit check digit

GS1-128 (UCC/EAN-128)

Restore factory defaults



GS1-128 factory default settings DEFAULT

Enable / disable reading

If the scanner cannot recognize the GS1-128 barcode, try reading the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

GS1-128 barcodes that are within (and inclusive of) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127.



Minimum length (default: 1)



Maximum length (default: 127)

Transmit check character



Transmit



Do not transmit DEFAULT

FNC1 output



Off



On DEFAULT

GS1 Databar (RSS)

Restore factory defaults



GS1 Databar factory default settings DEFAULT

Enable / disable reading

If the scanner cannot recognize the GS1 Databar barcode, try reading the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

AI (01) character sending setting



Transmit DEFAULT



Do not transmit

Code 11

Restore factory defaults



Code 11 factory default setting DEFAULT

Enable / disable reading

If the scanner cannot recognize the Code 11 barcode, try scanning the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

Code 11 barcodes that are within (and including) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127.



Minimum length (default: 2)



Maximum length (default: 127)

Check

Code 11 barcode data does not require a check character. If a check character is present, it can be the last one or two characters of the data. The check character is a value calculated based on all the data and is used to verify that the data is correct.



Disable DEFAULT



One bit checksum, MOD11



Two-digit checksum, MOD11/MOD11



Two-digit checksum, MOD11/MOD9



MOD11 single check (Len<=10)



MOD11 single check (Len<=10)

Transmit check character

When the check character transmission is set to "Do not transmit", if the data length after deducting the check character is less than the minimum reading length, the code reading will fail.



Do not transmit DEFAULT



Transmit

ISBN

Restore factory defaults



ISBN factory default setting DEFAULT

Enable / disable reading

If the scanner cannot recognize the ISBN barcode, please try to read the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

ISBN format



ISBN-10



ISBN-13 DEFAULT

2 -bit extension code



Do not read 2-digit add-on DEFAULT



Read 2-digit add-on

5 -bit extension code

setting to " Read 2-digit extended code " or " Read 5-digit extended code ", the scanner can read the new barcode composed of the normal barcode and the extended code; Can read ordinary barcodes without extension codes.



Do not read 5-digit add-on DEFAULT



Read 5-digit add-on

Extension code must be appended

When the Must append extension code setting is set to Required, the scanner only reads EAN-13 that includes the extension code.



Not required DEFAULT



Required

ISSN

Restore factory defaults

ISSN factory default setting DEFAULT

Enable / disable reading

If the scanner cannot recognize the ISSN barcode, please try to read the " Enable " setup barcode and try again.

Enable DEFAULT

Disable

2 -bit extension code

Do not read 2-digit add-on DEFAULT

Read 2-digit add-on

5 -bit extension code

setting to " Read 2-digit extended code " or " Read 5-digit extended code ", the scanner can read the new barcode composed of the normal barcode and the extended code; Can read ordinary barcodes without extension codes.

Do not read 5-digit add-on DEFAULT

Read 5-digit add-on

Extension code must be appended

When the Must append extension code setting is set to Required, the scanner only reads EAN-13 that includes the extension code.

Not required DEFAULT

Required

Industrial 25

Restore factory defaults



Industrial 25 factory default setting DEFAULT

Enable / disable reading

If the scanner cannot recognize the Industrial 25 barcode, try scanning the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

Industrial 25 barcodes whose lengths are between (and including) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127.



Minimum length (default: 1)



Maximum length (default: 127)

Check

Industrial 25 barcode data does not require a check character. If a check character is present, it must be the last byte of the data. The check character is a value calculated from all data except the check character and is used to verify data accuracy.



Disable DEFAULT



Enable, do not transmit check digit



Enable, transmit check digit

Standard 25

Restore factory defaults



Standard 25 factory default setting DEFAULT

Enable / disable reading

If the scanner cannot recognize the Standard 25 barcode, try reading the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

Standard 25 barcodes whose length is between (and including) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127.



Minimum length (default: 6)



Maximum length (default: 127)

Check

Standard 25 barcode data does not require a check character. If a check character is present, it must be the last character in the data. The check character is a value calculated from all data except the check character and is used to verify data accuracy.



Disable DEFAULT



Enable, do not transmit check digit



Enable, transmit check digit

Plessey

Restore factory defaults



Plessey factory default settings DEFAULT

Enable / disable reading

If the scanner cannot recognize the Plessey barcode, please try to read the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

Plessey barcodes that are within (and including) a minimum and maximum length. The maximum length limit of any one-dimensional barcode cannot exceed 127. If the maximum length is less than the minimum length, only barcodes of these two lengths will be read.



Minimum length (default: 1)



Maximum length (default: 127)

Check

Plessey barcode data does not require a check character. If a check character is present, it must be the last two characters of the data.



Disable



Enable, do not transmit check digit DEFAULT



Enable, transmit check digit

MSI Plessey

Restore factory defaults



MSI-Plessey factory default settings DEFAULT

Enable / disable reading

If the scanner cannot recognize the MSI-Plessey barcode, please try to read the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

MSI-Plessey barcodes with a length between (and including) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127.



Minimum length (default: 2)



Maximum length (default: 127)

Check

MSI-Plessey barcode data does not require a check character. If a check character is present, it is the last one or two characters of the data.



Disable



One-bit parity, MOD10 DEFAULT



Two-digit check, MOD10/MOD10



Two-digit check, MOD10/MOD11

Transmit check character

set to " Enable, do not transmit check character ", if the data length minus the 2- byte check character is less than the minimum reading length limit, the code reading will fail.



Transmit DEFAULT



Do not transmit

AIM 128

Restore factory defaults



AIM 128 factory default settings DEFAULT

Enable / disable reading

If the scanner cannot recognize the AIM 128 barcode, try reading the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

AIM 128 barcodes that are within (and including) the minimum and maximum lengths. The maximum length limit of any one-dimensional barcode cannot exceed 127.



Minimum length (default: 1)



Maximum length (default: 127)

Transmit check character



Transmit



Do not transmit DEFAULT

FNC1 output



Off



On DEFAULT

PDF417

Restore factory defaults

PDF417 factory default settings DEFAULT

Enable / disable reading

If the scanner cannot recognize the PDF417 barcode, please try to read the " Enable " setup barcode and try again.

Enable DEFAULT

Disable

Set the reading length

PDF417 barcodes that are within (inclusive of) a minimum and maximum length. The maximum length limit of any 2D barcode shall not exceed 65535 bytes, and the maximum length limit shall not be less than the minimum length limit.

Minimum length (default: 1)

Maximum length (default: 2710)

PDF417 dual code

PDF417 Dual Code: Two PDF417 barcodes arranged one above the other or side by side. The two codes must be aligned in the same direction, with minimal discrepancy and as close together as possible. Dual code settings are divided into the following three modes.

Only read a single PDF417 code DEFAULT

Read only double PDF417 codes

Can read single and double PDF417 codes

Character encoding

Default DEFAULT

UTF-8

ECI output

Disable

Enable DEFAULT

QR Code

Restore factory defaults

QR factory default setting DEFAULT

Enable / disable reading

If the scanner cannot recognize the QR Code, please try to read the " Enable " setup barcode and try again.

Enable DEFAULT

Disable

Set the reading length

QR Codes that are within (and include) a minimum and maximum length. The maximum length limit of any 2D barcode shall not exceed 65535 bytes, and the maximum length limit shall not be less than the minimum length limit.

Minimum length (default: 1)

Maximum length (default: 7089)

QR double code

QR dual code: Two QR barcodes arranged vertically or horizontally. The orientation of the two codes should be consistent, the difference should be as small as possible, and the distance should be as close as possible.

Only reads a single QR code DEFAULT

Read only double QR codes

Can read single and double QR codes

Character encoding

Default DEFAULT

UTF-8

ECI Output

Disable

Enable DEFAULT

Micro QR Code

Restore factory defaults



Micro QR factory default settings DEFAULT

Enable / disable reading

If the scanner cannot recognize the Micro QR Code barcode, please try to read the " Enable " setup barcode and try again.



Enable DEFAULT



Disable

Set the reading length

Micro QR Code barcodes that are within (inclusive of) the minimum and maximum lengths. The maximum length limit of any 2D barcode shall not exceed 65535 bytes, and the maximum length limit shall not be less than the minimum length limit.



Minimum length (default: 1)



Maximum length (default: 7089)

Data Matrix

Restore factory defaults

Data Matrix factory default settings DEFAULT

Enable / disable reading

If the scanner cannot recognize the Data Matrix barcode, please try to read the " Enable " setup barcode and try again.

Enable DEFAULT

Disable

Set the reading length

Data Matrix barcodes with a length between (and including) a minimum and maximum length. The maximum length limit of any 2D barcode shall not exceed 65535 bytes, and the maximum length limit shall not be less than the minimum length limit.

Minimum length (default: 1)

Maximum length (default: 3116)

Data Matrix Dual Code

Data Matrix Dual Code: Two Data Matrix barcodes arranged one above the other or side by side. The two codes must be aligned in the same direction, with minimal discrepancy and as close together as possible.

Only reads single Data Matrix code DEFAULT

Reads only double Data Matrix codes

Can read single and double Data Matrix codes

Data Matrix barcodes come in two formats

Square codes with the same number of length and width modules: 10*10, 12*12, 144*144. Rectangular codes with inconsistent length and width modules: 6*16, 6*14, 14*22.

Enable DEFAULT

Disable

Data Matrix

Character encoding



Default DEFAULT



UTF-8

ECI Output



Disable



Enable DEFAULT

Data format editing

Settings

You can use the data format editing function to change the output data of the scanner. For example, you can use the data format editing function to insert characters at specific positions in the barcode data.



Factory default data format DEFAULT

Enable / disable data format editing

Use the following settings to enable or disable the data format editing function. Close data format editing Close the data format editing function.



Close data format editing DEFAULT



Open data format editing, require matching, and retain prefix and suffix



Open data format editing, require matching, and discard prefixes and suffixes



Enable data format editing, no matching required, retain prefix and suffix



Enable data format editing, do not require matching, and discard prefixes and suffixes

Step 2: Read "Add data format";



Add data format

Clear data format

There are two ways to clear data format configurations. One is to scan the " Clear All Data Formats " setup barcode to clear all data formats.



Clear all data formats



Clear a set of data formats

Data format editing

Select data format

After opening the data format editing function, you can select which data format to use. Use the following four setting codes to select different data formats. Default: Data format 0.



Data format 0 DEFAULT



Data Format 1



Data Format 2



Data format 3

Single-use data format

A single-use data format applies only to the first barcode scanned after it is set. Subsequent scans will revert to the original data format. You can select a single-use data format using the following setup code.



Single use data format 0



Single-use data format 1



Single-use data format 2



Single-use data format 3

Data format mismatch error tone

If the data format mismatch prompt tone is turned on, the scanner will emit an error prompt tone when reading a barcode that does not meet the data format requirements.



Off DEFAULT



On

Data Format 0:xxxx; Data Format 1:xxxx; Data Format 2:xxxx; Data Format 3:xxxx;



Query the current data format



Query the factory default data format

Data format editing commands

Using the Data Format Editor is like moving a virtual cursor within the input data string. The following commands can be used to move the cursor to different locations, as well as to select, replace, and insert data into the final output.



Example barcode

Data format editing

F2 example: Send several characters

10 characters of the above barcode content, and then send a carriage return. Command string: F2100D F2: "Send several characters" command 10: Length of characters sent (output starts from the current cursor position) 0D: Hexadecimal value for carriage return



Example barcode

F3 sends all characters before a certain character

Command format = F3ssxx (ss: hexadecimal value of a character; xx: hexadecimal value of the character to be inserted) Outputs all characters from the right side of the current cursor to the left side of the character ss (excluding the character ss), followed...



Example barcode

Command format = B9nnnns...s (nnnn: length of string s...s; s...s: string to be matched)

Outputs all characters from the current cursor to the left of the string s...s (excluding the string s...s). The cursor moves right to the left of the string s...s.



Example barcode

E9 and F4 example: Send all characters before the last few characters, then send two Tabs

Send the above barcode content ending with 9 All characters before the bit character, and then send two tabs.



Example barcode

B3 and B4 Example: Inserting the symbology name and length

Send the code name, length and barcode data of the above barcode, use space as separator, and finally send a carriage return.



Example barcode

Data format editing

F5 Move the cursor to the right by a number of characters

Command format = F5nn (nn: 00-99, the number of characters the cursor moves to the right) Move the cursor to the right by nn characters.



Example barcode

Command format = F8xx (xx: hexadecimal value of the character to be searched)

xx in the input information starting from the current cursor position and moving the cursor to the left of the character.



Example barcode

B0 Search for a string to the right

Command format = B0nnnnS (nnnn: 0000-9999, the length of the string to be searched; S: the hexadecimal value of all characters in the string) S from the current cursor position to the right in the input information, moving the cursor to the left of the...



Example barcode

Command format = E6xx (xx: the hexadecimal value of the unmatched character to be found)

Searches the input information from the current cursor position to the right for the first character that does not match xx, and moves the cursor to the left of the character.



Example barcode

0D: The hexadecimal value output of carriage return is: 123456<CR>

EC checks whether the character to the right of the cursor is a number This command does not take parameters. If the cursor is not a number, it will exit the current command, otherwise it will continue to execute.



Example barcode

Data format editing

Command format = FExx (xx is the hexadecimal value of the character)

If the character to the right of the current cursor is xx, continue executing the command; otherwise, exit. FE example: The example is a barcode starting with the character " 1 ", and the first 6 bytes of the barcode are output.



Example barcode

FB blocks output characters

Command format = FBnnxxyy..zz (nn: the number of characters to be blocked; xxyy..zz: the hexadecimal value of the characters to be blocked) 15 different characters) starting to the right of the current cursor. Cursor movement is determined by other commands.



Example barcode

E4 Replacement Character

Command format = E4nnxx 1 xx 2 yy 1 yy 2 ...zz 1 zz 2 (nn: number of replaced characters + number of replacement characters; xx 1: hexadecimal value of the replaced character, xx 2: hexadecimal value of the replacement character, and so on) 15 characters)...



Example barcode



Enter setup



Example barcode

BA example: Replace 23 in the barcode information with XYZ

BA: "Replace string multiple times" command 02: Replace times



Command string: BA020232330358595AF100

EF Example: Insert a delay after the 5th and 7th characters of a barcode

Command string: F20500EF0200F20200EF0200F100 F2: "Send several characters" command 05: Length of characters sent (output starts from the current cursor position)



Example barcode

Data format editing

B5: US English 104 keyboard layout mode, insert aBc at the beginning of the barcode

B5: "Insert Key" command 03: Number of keys inserted



Command string characters: B503001F01320030F100

F1: Send all characters



00: Hexadecimal output of Nul: aBc12345678



Enter setup

EE loop execution

Command format = EEnnCMD1CMDm (nn: length of the instruction to be executed in a loop; CMD1CMDm: the instruction string to be executed in a loop) Execute a section of instructions cyclically starting from the right side of the current cursor position until...



Command string: EE12F20300EF0200F100

Prefix, suffix and Code ID

All prefixes and suffixes

If it is set to " Disable ", the decoded information will only contain the barcode data information without prefix or suffix.



All prefixes and suffixes are prohibited DEFAULT



Enable all prefixes and suffixes

Prefix order

Startup Settings



Code ID + custom prefix + AIM ID prefix DEFAULT



Custom prefix + Code ID + AIM ID

Custom prefix

A custom prefix adds a user-defined string before the decoded information.



Disable DEFAULT



Enable

Modify a custom prefix

To customize, first read " Modify Custom Prefix, " then sequentially read the hexadecimal value of each byte in the prefix string to be set. Finally, read " Save Settings " to complete the custom prefix setting.



Modify a custom prefix

AIM ID Prefix

AIM stands for the Association of Automatic Identification Manufacturers. AIM ID defines identification codes for various standard barcodes. See the table below for specific definitions.



Disable DEFAULT



Enable

Prefix, suffix and Code ID

Code ID Prefix

In addition to the AIM prefix, which can be used to identify different barcode types, users can also use the Code ID prefix to identify barcode types. Unlike the AIM prefix, the Code ID prefix corresponding to each barcode type is customizable.



Disable DEFAULT



Enable

Default Code ID

Startup Settings



Restore the default Code ID settings

Restore the Code ID of all barcodes including PDF417 to the default value

Read Startup Settings Read " Restore Default Code ID set up " Read " Exit Settings " Startup Settings Modify the one-dimensional barcode ID Startup Settings Startup Settings Startup Settings Modify the QR code ID Startup Settings



Code 128



GS1-128 (UCC/EAN-128)



EAN-8



EAN-13



UPC-E



UPC-A



Interleaved 2 of 5



ITF-14



ITF-6



Matrix 2 of 5



Code 39



Codabar



Code 93



AIM 128



ISSN



ISBN



Industrial 25



Standard 25

Prefix, suffix and Code ID

Restore the Code ID of all barcodes including PDF417 to the default value (continued)


Plessey


Code 11


MSI Plessy


GS1 Databar (RSS)


PDF417


QR


Data Matrix


Micro QR

Custom suffix

A custom suffix is a string of user-defined characters added after the decoded information. For example, it is allowed to add a custom suffix and set the suffix to the string "AB".


Disable DEFAULT


Enable

Modify custom suffix

First read " Modify Custom Suffix ", then read the hexadecimal value of each byte in the suffix string to be set in sequence, and finally read " Save Settings " to complete the customization Note: The total length of the custom suffix string must not exceed...


Modify custom suffix

Data Packaging

For some applications that have high requirements for data integrity and reliability, the data can be packaged and output, and complete and reliable data transmission can be ensured by checking and verifying the content format.


Data packaging is prohibited DEFAULT


Enable data packaging, format 1


Enable data packaging, format 2

Prefix, suffix and Code ID

End suffix

The terminator suffix is used to mark the end of a complete data message. The terminator suffix exists independently and does not participate in any other form of data formatting.



Disable



Enable DEFAULT

Modify the end suffix

First read " Modify terminator suffix ", then read the hexadecimal value of each byte in the suffix string to be set in sequence, and finally read " Save settings " to complete the terminator Suffix settings.



Modify the end suffix



Modify the end character suffix to <CR> (0x0D)



Modify the end character suffix to <CR> <LF> (0x0D, 0x0A)

PART 33 · SETUP BARCODES · ONE CODE, MANY SETTINGS

Batch settings

@ILLSCN1;SCNMOD2;ORTSET2000;I25ENA0;

When setting is required, read " Start Batch Setting " and then read the prepared batch code to complete the setting. Startup Settings



Start Batch Processing Settings

Using Batch Barcodes

Follow the steps below to read the setup barcode and batch barcode in sequence: Batch setting code



Enter setup



Start Batch Processing Settings



Exit setup



Appendix

APPENDIX A · REFERENCE

Data codes, save and cancel

Use these barcodes after a setting that asks for a number or a hex value. Example: to set a length of 12, scan the setting, then 1, then 2, then Save. Hex values use the digits 0–9 and the letters A–F.

Data Code

After reading the data code, be sure to read " Save " to save the data code settings. 0~9


0


1


2


3


4


5


6


7


8


9

A~F


A


B


C


D


E


F


Vertical bar '|'

Save or Cancel

After reading the data barcode, you need to read the save barcode to save the data. If you make an error while reading the data barcode, in addition to resetting, you can also cancel the reading of the incorrect data.


Save


Cancel current setting


Cancel last digit


Cancel last string

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