

User Guide

E1V.212 Data editing

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1 Data editing

1.1 character set

1.1.1 Input Character Set

In order for the reading module to know the correct character set of the code, it can be set by reading the "Input Character Set".



*Automatic



GBK



UTF8



ASCII



Shift-JIS Japanese

1.1.2 output character set

To match the host's character set, you can read the "Output Character Set" to set it.



*Original format



GBK



UTF8

1.2 Barcode ID

1.2.1 AIM ID

AIM is the abbreviation of Automatic Identification Manufacturers (AIM), AIM ID defines the identification code for each standard barcode (AIM ID cannot be customized by the user), the specific definition is shown in [Appendix C](#) AIM ID list. The scanning module can add this identification code in front of the barcode data after decoding, the format is: "]" + letter "C" + number "0", for example, the AIM ID of CODE128 is "]" + letter "C" + number "0", for example, the AIM ID of CODE128 is "]" + letter "C" + number "0". ID for CODE128 is "]C0". Users can identify

different barcode types by AIM ID.



* Disable



enable

1.2.2 CODE ID

The user can identify the different barcode types by CODE ID, which uses a single character for identification. For specific definitions, see [Appendix B](#) : List of CODE IDs



* Disable



enable

1.3 closing character

In order to allow the host to quickly distinguish the current decoding results, you can turn on the add terminator function, and the read module will add the corresponding terminator after decoding the data.



Disable



carriage return



* Enter



TAB



Carriage return. Carriage return.

1.4 prefix (linguistics)

1.4.1 prefix switch

Prefix is a user-defined string of characters that can be modified before decoding the

message. Prefix can be added by scanning the "Enable" setting code, and cancellation of prefix can be realized by scanning "Disable".



* Disable



enable

1.4.2 Prefix content settings

Prefix setting can be used in two ways, method one requires user generated QR code, which tends to be more flexible to use for those who have more settings; method two can be used by scanning the setting code within this manual according to the steps.

Method I:

Add prefix setting code content format: >!010800XX. where XX is the setting variable, XX using hexadecimal representation, two characters as a unit, the lack of 0 to make up, can be arbitrarily superimposed, the maximum support for 10-bit data prefix.

For example, if you need to set the prefix character A, look up [Appendix E](#) character comparison table, hexadecimal is 41, then set the code content is: >!01080041.

For example, if you need to set the prefix character A B C, look up [Appendix E](#) Character comparison table, hexadecimal were 41 42 43, then set the code content is: >!010800414243.

Method II:

- a) Scanning the "Prefix Setting" Setting Code



Prefix Setting

- b) Scan the "[Digital Setting Code](#)", every two as a group.

For example, if you need to set the prefix character A, look up [Appendix E](#) Character comparison table, hexadecimal is 41, then sweep 4 and 1, respectively.

For example, if you need to set the prefix character ABC, look up [Appendix E](#) Character cross-reference table, hexadecimal 414243, then sweep 4, 1, 4, 2, 4, 3 respectively

- c) Scan the "OK" setup code to end the setup.



recognize

1.5 suffix (linguistics)

1.5.1 suffix switch

Suffix is a user-defined string that is modified after decoding the message. Suffix can be added by scanning the "Enable" setting code, and cancelled by scanning the "Disable" setting code.



* Disable



enable

1.5.2 Suffix Content Setting

Suffix settings can be used in two ways, method one requires the user to generate a QR code, which tends to be more flexible for users who set up more settings; method two can be used according to the steps of scanning the setup code within this manual

Method I:

Add suffix setting code content format: >!010801XX. where XX is the setting variable, XX using hexadecimal representation, two characters as a unit, the lack of 0 to make up, can be arbitrarily superimposed, the maximum support for 10-bit suffix.

For example, if you need to set the suffix character A, look up [Appendix E](#) Character comparison table, hexadecimal is 41, then set the code content is: >!01080141.

For example, if you need to set the suffix character ABC, look up [Appendix E](#) Character comparison table, hexadecimal is 414243, then set the code content is: >!010801414243.

Method II:

- a) Scanning the "Suffix Setting" Setting Code



Suffix Setting

- b) Scan the "[Digital Setting Code](#)", every two as a group.

For example, if you need to set the suffix character A, look up [Appendix E](#) Character comparison table, hexadecimal is 41, then sweep 4 and 1 respectively.

For example, if you need to set the suffix character ABC, look up [Appendix E](#) Character cross-reference table, hexadecimal 414243, then sweep 4, 1, 4, 2, 4, 3

- c) Scan the "OK" setup code to end the setup.



recognize

1.6 Add prefixes based on barcode type

1.6.1 Add prefix switches based on barcode type

Prefix is a user-defined string of characters that can be modified before decoding the message. Prefix can be added by scanning the "Enable" setting code, and cancellation of prefix can be realized by scanning "Disable".



* Disable



enable (sb. to do sth)

1.6.2 Add prefix content settings based on barcode type

Prefix content settings can be used in two ways, method one requires user-generated QR codes, which tends to favor users who set up more settings and are more flexible in their use; method two can be used by scanning the setup codes within this manual according to the steps.

Method I:

According to the barcode type add prefix setup code content format: >!010806XXXX. Where XXXX is the setup variable, the first two XX indicates the barcode type, the relevant hexadecimal value can be according to the [Appendix F](#) XX use hexadecimal representation, two characters as a

unit, the lack of 0 to make up, can be arbitrarily superimposed, the maximum support for 10-bit data prefix.

For example, if you need to set the CODE128 barcode prefix character A, according to [Appendix F](#) the hexadecimal value of CODE128 is 01, according to the appendix F, check [Appendix E](#) Character comparison table, character A hexadecimal is 41, then set the code content as: >!0108060141.

For example: you need to set the CODE128 barcode prefix character A B C, according to the [Appendix F](#) the hexadecimal value of CODE128 is 01, according to Appendix F. [Appendix E](#) Character comparison table, the characters A B C hexadecimal were 41 42 43, then set the code content for: >!01080601414243.

Method II:

- a) Scanning the "Prefix Setting" Setting Code



Prefix Setting

- b) To set the barcode type, scan the "[Digital Setting Code](#)", every two as a group.

For example, if you need to set a prefix for CODE128, according to the [Appendix F](#) Barcode type check, CODE128 barcode type hexadecimal value is 01, then sweep 0 and 1, respectively.

- c) To set the prefix content, scan in order "[Digital Setting Code](#)", every two as a group.

For example, if you need to set the prefix character A, look up [Appendix E](#) character comparison table, the character A hexadecimal is 41, then sweep 4 and 1 respectively.

- d) Scan the "OK" setup code to end setup



recognize

1.6.3 Clear prefixes based on barcode type

Clear the prefixes that have been set. There are two methods that can be used to clear the

prefix, method 1 requires the user to generate a QR code, which tends to favor users with more settings and is more flexible to use, and method 2 can be done by scanning the setup code within this manual according to the steps.

Method I:

According to the barcode type to clear the prefix setting code content format is: >!010808XX, where XX is the setting variable, XX indicates that the barcode type using hexadecimal, two characters for a unit, the shortage of 0 to make up. The related hexadecimal value can be set according to [Appendix F](#) The related hexadecimal value can be found according to Appendix F.

For example, if you need to clear the CODE128 barcode prefix, according to the [Appendix F](#) According to Appendix F, the hexadecimal value of CODE128 is 01, then the setting code is: >!01080801.

Method II:

- a) Scanning the "Clear Prefix" Setting Code



Clear prefix

- b) To clear the barcode type, scan in order " [Digital Setting Code](#) ", every two as a group.
For example, if you need to clear the CODE128 prefix, according to the [Appendix F](#) Barcode type check, CODE128 barcode type hexadecimal value is 01, then sweep 0 and 1 respectively.
- c) Scan the "OK" setup code to end the setup.



recognize

1.7 Add suffixes based on barcode type

1.7.1 Add suffix switch based on barcode type

Suffix is a user-defined string that is modified after decoding the message. Suffix can be added by scanning the "Enable" setting code, and cancelled by scanning the "Disable" setting

code.



* Disable



enable

1.7.2 Add suffix content settings based on barcode type

Suffix content setting can be used in two ways, method one requires user generated QR code, which tends to be more flexible to use for those who have more settings; method two can be used by scanning the setting code within this manual according to the steps.

Method I:

According to the barcode type add suffix setup code content format is: >!010807XXXX. Where XXXX is the setup variable, the first two XX indicates the barcode type, the related hexadecimal value can be according to the [Appendix F](#) XXXX is the setting variable, the first two XX indicates the barcode type, the related hexadecimal value can be found according to Appendix F, the latter XX is expressed in hexadecimal, two characters are a unit, the insufficient one is made up with 0, and it can be stacked arbitrarily, and it can support up to 10 bit data suffix.

For example, if you need to set the CODE128 barcode suffix character A, according to [Appendix F](#) the hexadecimal value of CODE128 is 01, according to the appendix F, check [Appendix E](#) Character comparison table, character A hexadecimal is 41, then set the code content as: >!0108070141.

For example, if you need to set CODE128 barcode suffix character A B C, according to [Appendix F](#) the hexadecimal value of CODE128 is 01, according to Appendix F. [Appendix E](#) Character comparison table, character A B C hexadecimal were 41 42 43, then set the code content for: >!01080701414243.

Method II:

a) Scanning the "Suffix Setting" Setting Code



Suffix Setting

- b) To set the barcode type, scan the "[Digital Setting Code](#)", every two as a group.
For example, if you need to set a suffix for CODE128, according to the [Appendix F](#) Barcode type check, CODE128 barcode type hexadecimal value is 01, then sweep 0 and 1 respectively
- c) To set the suffix content, scan in turn the "[Digital Setting Code](#)", every two as a group.
For example, if you need to set the suffix character A, look up [Appendix E](#) character comparison table, the character A hexadecimal is 41, then sweep 4 and 1 respectively.
- d) Scan the "OK" setup code to end setup



recognize

1.7.3 Clear suffixes based on barcode type

Clear the suffixes that have been set. There are two methods that can be used to clear the suffix, method 1 requires the user to generate a QR code, which tends to favor users with more settings and is more flexible to use, and method 2 can be done by scanning the setup code within this manual according to the steps.

Method I:

According to the barcode type to clear the suffix setting code content format: >!010809XX, where XX for the setting variable, XX that the barcode type using hexadecimal, two characters for a unit, the lack of 0 to make up. The related hexadecimal value can be set according to [Appendix E](#) The related hexadecimal value can be found according to Appendix F.

For example, if you need to clear the CODE128 barcode suffix, according to the [Appendix F](#) According to Appendix F, the hexadecimal value of CODE128 is 01, then the setting code is: >!01080901.

Method II:

- a) Scanning the "Remove Suffix" Setting Code



remove suffix

- b) To clear the barcode type, scan in order " [Digital Setting Code](#) ", every two as a group.
For example, if you need to clear the CODE128 suffix, according to the [Appendix F](#) Barcode type check, CODE128 barcode type hexadecimal value is 01, then sweep 0 and 1 respectively.
- c) Scan the "OK" setup code to end setup



recognize

1.8 Hide fixed characters

This function can be used to hide strings that the user doesn't need to output according to the requirements.

1.8.1 Hide Fixed Character Switch



* Disable



enable

1.8.2 Hide fixed character settings

Hidden fixed character settings can be used in two ways, method one requires the user to generate a QR code, which tends to set up more users, the use of more flexible; method two can be scanned according to the steps of the setup code in this manual

Method I:

Hidden Fixed Character Setting Code Content Format: >!010802XX. where XX is the setting variable, XX using hexadecimal representation, two characters as a unit, the lack of 0 to make up, can be arbitrarily superimposed, the maximum support for 20 bits.

For example, if you need to set the hidden character A, look up [Appendix E](#) Character Comparison Table, hexadecimal is 41, then set the code content is: >!01080241.

For example, if you need to set the hidden characters ABC, check the [Appendix E](#) Character comparison table, hexadecimal is 414243, then set the code content: >!010802414243.

Method II:

- a) Scanning the "Hide Fixed Characters" Setting Code



Hide fixed characters

- b) Scan the "[Digital Setting Code](#)", every two as a group.

For example, if you need to hide the character A, look up [Appendix E](#) Character cross-reference table, hexadecimal is 41, then sweep 4 and 1, respectively.

For example, if you need to hide line breaks, check the [Appendix E](#) Character comparison table, hexadecimal is 0A, then sweep 0 and A respectively

- c) Scan the "OK" setup code to end setup



recognize

1.9 Retention of barcode data based on length

This function allows you to retain the data required by the user in the barcode on demand.

1.9.1 Retain data switch



* Disable



forward indexing



reverse index

[Note] Forward indexing (starting from the front end of the data); reverse indexing (starting from the back end of the data)

1.9.2 Preserve data start position

Starting setup can be done using two methods, method 1 requires user generated QR code, which tends to favor users with more setup and more flexible usage; method 2 can be done by scanning the setup code within this manual according to the steps.

Method I:

Start position setup code content format: >!00102AXX. where XX is the setup variable, decimal range 1-65535.

For example, if the start position is set to 11, the setup code will read: >!00102A11.

Method II:

- a) Scanning the "starting position" setup code



starting position

- b) Scan " [Number Setting Code](#) ", start from the first digit and scan the corresponding number setting code. For example, for the 11th digit, scan 1,1; for the 100th digit, scan 1,0,0.

- c) Scan the "OK" setup code to end setup



recognize

1.9.3 Preserve data end position

Two methods can be used to end the setup, method 1 requires user generated QR code, which tends to favor users with more setups and more flexible usage; method 2 can be used by scanning the setup code within this manual according to the steps.

Method I:

End position setup code content format: >!00102BXX. where XX is the setup variable, decimal range 1-65535.

For example, if the end position is set to 50, the setup code will read: >!00102B50.

Method II:

- a) Scanning the "end position" setup code



end position

- b) Scan "[Number Setting Code](#)", from the end of the first digit, scan the corresponding number setting code. For example, for the 50th digit, scan 5,0.
- c) Scan the "OK" setup code to end setup



recognize

1.10 Hide barcode data by length

This function allows you to hide data in the barcode that is not needed by the user on demand.

1.10.1 Hidden Barcode Data Switch



* Disable



forward indexing



reverse index

[Note] Forward indexing (starting from the front end of the data); reverse indexing (starting from the back end of the data)

1.10.2 Hide barcode data start position

Starting setup can be done using two methods, method 1 requires user generated QR code, which tends to favor users with more setup and more flexible usage; method 2 can be done by scanning the setup code within this manual according to the steps.

Method I:

Start position setup code content format: >!001027XX. where XX is the setup variable, decimal range 1-65535.

For example, if the start position is set to 11, the setup code will read: >!00102711.

Method II:

- a) Scanning the "starting position" setup code



starting position

- b) Scan "[Number Setting Code](#)", start from the first digit and scan the corresponding number setting code. For example, for the 11th digit, scan 1,1; for the 100th digit, scan 1,0,0.
- c) Scan the "OK" setup code to end setup



recognize

1.10.3 Hide barcode data end position

Two methods can be used to end the setup, method 1 requires user generated QR code, which tends to favor users with more setups and more flexible usage; method 2 can be used by scanning the setup code within this manual according to the steps.

Method I:

End position setup code content format: >!001028XX. where XX is the setup variable, decimal range 1-65535.

For example, if the end position is set to 50, the setup code will read: >!00102850.

Method II:

- a) Scanning the "end position" setup code



end position

- b) Scan "[Number Setting Code](#)", end at the first digit and scan the corresponding number setting code. For example, for the 11th digit, scan 1,1; 100th position, sweep 1,0,0.
- c) Scan the "OK" setup code to end setup



recognize

1.11 Hide barcode data of any length according to barcode type

This function allows you to hide the data in the barcode that the user does not need according to the barcode type on demand.

1.11.1 Hide Barcode Data Switch by Barcode Type



* Disable



forward indexing



reverse index

[Note] Forward indexing (starting from the front end of the data); reverse indexing (starting from the back end of the data)

1.11.2 Hide data start position by barcode type

Starting setup can be done using two methods, method 1 requires user generated QR code, which tends to favor users with more setup and more flexible usage; method 2 can be done by scanning the setup code within this manual according to the steps.

Method I:

According to the barcode type to hide the starting position of the data content format: `>!01080AXXXX`. Where `XXXX` is the setting variable, the first two `XX` indicates the barcode type, the relevant hexadecimal value can be according to the [Appendix F](#) `XXXX` is the setting variable, the first two `XX` represent the barcode type, the relevant hexadecimal value can be found according to Appendix F, the latter `XX` is expressed in hexadecimal, two characters are a unit, the shortfall is made up with 0, and the length range is `0x0000-0xFFFF`.

For example: you need to hide the CODE128 start position set to 11, according to the [Appendix F](#) we find that the hexadecimal value of CODE128 is 01, and the hexadecimal of 11 is 0B, then the content of the setting code is: `>!01080A010B`.

Method II:

- a) Scanning the "Barcode Type and Start Position" Setting Code



Barcode type and starting position

- b) To set the barcode type, scan in order "[Digital Setting Code](#)", every two as a group. For example, if you need to hide CODE128, according to the [Appendix F](#) barcode type, CODE128 barcode type hexadecimal value is 01, then sweep 0 and 1, respectively.
- c) To set the starting position, scan in turn the "[Digital Setting Code](#)", every two as a group. The use here refers to hexadecimal. For example, bit 11, hex 0B, sweeps 0, B; bit 100, hex 64, sweeps 6, 4.
- d) Scan the "OK" setup code to end setup



recognize

1.11.3 Hide data end position according to barcode type

Two methods can be used to end the setup, method 1 requires user generated QR code, which tends to favor users with more setups and more flexible usage; method 2 can be used by scanning the setup code within this manual according to the steps.

Method I:

According to the barcode type to hide the end position of the data content format is: >!01080BXXXX. where XXXX is the setting variable, the first two XX indicates the barcode type, the relevant hexadecimal value can be based on the [Appendix F](#) XXXX is the setting variable, the first two XX indicate the barcode type, the relevant hexadecimal value can be found according to Appendix F, the latter XX is expressed in hexadecimal, two characters are a unit, the shortfall is made up with 0, the length range is 0x0000-0xFFFF.

For example: you need to hide the CODE128 end position set to 100, according to the [Appendix F](#) we find that the hexadecimal value of CODE128 is 01 and the hexadecimal value of 100 is 64, then the content of the setting code is: >!01080B0164.

Method II:

- a) Scanning "Barcode Type and End Position" Setting Code



Barcode type and end position

- b) To set the barcode type, scan in order "[Digital Setting Code](#)", every two as a group. For example, if you need to hide CODE128, according to the [Appendix F](#) barcode type, CODE128 barcode type hexadecimal value is 01, then sweep 0 and 1, respectively.
- c) To set the end position, scan in turn the "[Digital Setting Code](#)", every two as a group. The use here refers to hexadecimal. For example, bit 11, hex 0B, sweeps 0, B; bit 100, hex 64, sweeps 6, 4.
- d) Scan the "OK" setup code to end setup



recognize

1.12 Hide any length of barcode header data by barcode type

This function can hide barcode data of any length that is not needed in the header according to the barcode type on demand.

1.12.1 Switch to hide any length of data in the barcode header according to barcode type



* Disable



enable

1.12.2 Hide barcode header arbitrary length settings by barcode type

Two methods can be used for length setting, method 1 requires user generated QR code, which tends to favor users with more settings and is more flexible to use; method 2 can be used by scanning the setting code within this manual according to the steps.

Method I:

The length format for hiding arbitrary length data in the barcode header according to the barcode type is: >!01080CXXXX. where XXXX is a setup variable, the first two XXs indicate the barcode type, and the related hexadecimal value can be set according to the [Appendix F](#) XXXX is the setting variable, the first two XX indicate the barcode type, the related hexadecimal value can be found according to Appendix F, the latter XX is expressed in hexadecimal, two characters are a unit, the shortfall is made up with 0, the length range is 0x0000-0xFFFF.

For example: the need to hide data of length 15 in the CODE128 header, according to the [Appendix F](#) we find that the hexadecimal value of CODE128 is 01, and the hexadecimal of 15 is 0F, then the content of the setup code is: >!01080C010F.

Method II:

- a) Scanning "Barcode Type and Length" Setting Code



Barcode Type and Length

- b) To set the barcode type, scan in order "[Digital Setting Code](#)", every two as a group. For example, if you need to hide CODE128, according to the [Appendix F](#) barcode type, CODE128 barcode type hexadecimal value is 01, then sweep 0 and 1, respectively.
- c) To set the length, scan in turn the "[Digital Setting Code](#)", every two as a group. The use here refers to hexadecimal. For example, length 11, hex 0B, sweep 0, B; length 100, hex 64, sweep 6, 4.
- d) Scan the "OK" setup code to end setup



recognize

1.13 Hide any length of data at the end of the barcode according to the barcode type

This function allows you to hide barcode data of any length that is not needed at the end

according to the barcode type on demand.

1.13.1 Switch to hide any length of data at the end of the barcode according to the barcode

type



* Disable



enable

1.13.2 Hide barcode tail arbitrary length setting according to barcode type

Two methods can be used for length setting, method 1 requires user generated QR code, which tends to favor users with more settings and is more flexible to use; method 2 can be used by scanning the setting code within this manual according to the steps.

Method I:

The length format to hide any length data at the end of the barcode according to the barcode type is: >!01080DXXXX. where XXXX is a setting variable, the first two XXs indicate the barcode type, and the related hexadecimal value can be set according to the [Appendix F](#) XXXX is the setting variable, the first two XX indicate the barcode type, the related hexadecimal value can be found according to Appendix F, the latter XX is expressed in hexadecimal, two characters are a unit, the shortfall is made up with 0, the length range is 0x0000-0xFFFF.

For example: it is necessary to hide the data of length 12 in the tail of CODE128, according to the [Appendix F](#) Find that the hexadecimal value of CODE128 is 01, and the hexadecimal of 12 is 0C, then the content of the setup code is: >!01080D010C.

Method II:

- a) Scanning "Barcode Type and Length" Setting Code



Barcode Type and Length

- b) To set the barcode type, scan in order "[Digital Setting Code](#)", every two as a group.
For example, if you need to hide CODE128, according to the [Appendix F](#) barcode type,

CODE128 barcode type hexadecimal value is 01, then sweep 0 and 1, respectively.

c) To set the length, scan in turn the "[Digital Setting Code](#)", every two as a group.

The use here refers to hexadecimal. For example, length 11, hex 0B, sweep 0, B; length 100, hex 64, sweep 6, 4.

d) Scan the "OK" setup code to end setup



recognize

1.14 Inserting Custom Data

This function allows you to insert user-defined data at any position in the barcode data as required.

1.14.1 Insert Custom Data Switch



* Disable



enable

1.14.2 Customized data

Customized data can be used in two ways, method one requires the user to generate a QR code, which tends to set up more users, the use of more flexible; method two can be based on the steps to scan the setup code within this manual

Method I:

Custom insert data setup code content format: `>!010803XX`. where **XX** is the setup variable, **XX** using hexadecimal representation, two characters as a unit, the lack of 0 to make up for, can be arbitrarily superimposed, the maximum support for 20 bits of custom data.

For example, if you need to insert custom data A, look up [Appendix E](#) Character comparison table, the hexadecimal is 41, then set the code content is: `>!01080341`.

For example, if you need to insert the custom data ABC, check the [Appendix E](#) Character comparison table, hexadecimal is 414243, then set the code content is: `>!010803414243`.

Method II:

- a) Scanning the "custom data" setup code



Customized data

- b) Scan the "[Digital Setting Code](#)", every two as a group.

For example, if you need to insert custom data A, look up [Appendix E](#) Character comparison table, hexadecimal is 41, then sweep 4 and 1 respectively

For example, if you need to insert the custom data ABC, check the [Appendix E](#) Character comparison table, the hexadecimal is 414243, then sweep 4, 1, 4, 2, 4, 3 respectively

- c) Scan the "OK" setup code to end setup



recognize

1.14.3 Insertion position

Insertion location setting can be used in two ways, method one requires user generated QR code, which tends to be more flexible to use for those who have more settings; method two can be used by scanning the setting code within this manual according to the steps.

Method I:

Insert position setting code content format: >!00102EXX, where XX is the setting variable, decimal range 1-65535.

For example, if the insertion position is set to 11, the setup code content is: >!00102E11.

Method II:

- a) Scanning the Insertion Position Setting Code



Insertion position

- b) Scan "[Digital Setting Code](#) ", insert the position and scan the corresponding number setting code. For example, for the 11th position, sweep 1,1; 100th position, sweep 1,0,0.
- c) Scan the "OK" setup code to end setup



recognize

1.15 data replacement

This function can replace the data within the original string with any data as required.

1.15.1 Data Replacement Switch



* Disable



enable

1.15.2 Replaced data settings

There are two ways to set up the replaced data, method 1 requires the user to generate a QR code, which tends to be more flexible for users who set up more settings; method 2 can be scanned according to the steps of the setup code in this manual.

Method I:

Replaced data setup code content format: >!010804XX. where XX is the setup variable, XX using hexadecimal representation, two characters as a unit, the lack of 0 to make up, can be arbitrarily superimposed, the maximum support for 20 bits.

For example: the replaced data A, check the [Appendix E](#) Character cross-reference table, hexadecimal is 41, then the set code content is: >!01080441.

For example: the replaced data ABC, check the [Appendix E](#) Character cross-reference table, hexadecimal is 414243, then set the code content is: >!010804414243.

Method II:

- a) Scanning the "Replaced data" setup code



Replaced data

- b) Scan the "[Digital Setting Code](#)", every two as a group.

For example: the replaced data A, check the [Appendix E](#) Character comparison table, hexadecimal is 41, then sweep 4 and 1 respectively.

For example, if the data being replaced is a new line, check [Appendix E](#) Character comparison table, hexadecimal is 0A, then sweep 0 and A, respectively.

- c) Scan the "OK" setup code to end setup



recognize

1.15.3 Replacement of data settings

Replacement of data settings can be used in two ways, method one requires the user to generate a QR code, which tends to be more flexible for users with more settings; method two can be used according to the steps to scan the setup code within this manual

Method I:

Replace the data setup code content format: >!010805XX. where XX is the setup variable, XX using hexadecimal representation, two characters as a unit, the lack of 0 to make up, can be arbitrarily superimposed, the maximum support for 20 bits.

For example: data A replaces the original data, check [Appendix E](#) character comparison table, the hexadecimal is 41, then set the code content is: >!01080541.

For example: data ABC replaces the original data, check the [Appendix E](#) Character cross-reference table, hexadecimal is 414243, then set the code content is: >!010805414243.

Method II:

- a) Scanning the "Replace data" setup code



Replacement data

- b) Scan the "[Digital Setting Code](#)", every two as a group.

For example: data A replaces the original data,check [Appendix E](#) Character comparison table, hexadecimal is 41, then sweep 4 and 1 respectively.

For example: data line feed replaces the original data,check [Appendix E](#) Character comparison table, hexadecimal is 0A, then sweep 0 and A respectively

- c) Scan the "OK" setup code to end setup



recognize

1.16 carriage return

Line feed ($\backslash n$) and carriage return line feed ($\backslash r \backslash n$) are converted to carriage return ($\backslash r$).



* Disable



enable (sb. to do sth)

1.17 Web Site Switch

To prevent the barcode with URL information from being mistakenly scanned when scanning commodity barcodes, or some other special applications, this function can be used to prohibit the recognition of barcodes with URL information according to the demand.



*Enable URL code



Disable site code

1.18 invoicing function

In order to use this module normally in the invoicing system, users can scan the following configuration code to realize the invoice code format conversion and output.

Note: This function supports Alipay QR code for invoicing and does not support WeChat QR code for invoicing.

1.18.1 Invoicing function switch



* Disable



enable

1.18.2 Invoice type



*Specialized invoices



by unanimous vote

1.19 GS1 rule enable

Enable GS1 rules to enclose AI segments in parentheses.



* Disable



enable

Appendix A : Digital Setting Code

The appendix contains the numbers 0-9; the letters A-F; Cancel; and the OK setting code.



0



1



2



3



4



5



6



7



8



9



A



B



C



D



E



F



recognize



abolish

Appendix B : CODE IDs

code character	Barcode Type
C	code 128/ean/ucc 128/gs1-128
F	CODE39/CODE32
J	CODE11
B	CODABAR
K	CODE93
E	ean13/ean8/isbn/issn
U	UPC-A/UPC-E
I	ITF25
D	IND25
S	STD25
M	MATRIX25
N	NEC25/COOP25
P	MSI PLSEEY
T	TELEPEN
A	PHARMACODE ONE-TRACK
W	TRIOPTIC
H	HONG KONG 2 of 5/CHINA POST
R	GS1 DATABAR/RSS
q	QR/MICRO QR
p	PDF 417/MICRO FDF 417
d	DATA MATRIX/DM
a	AZTEC CODE
h	HAN XIN
m	MAXI CODE
t	DOTCODE
g	GM
o	OCR
k	CODABLOCK A
f	CODABLOCK F
n	POSTAL CODE
V	KOREA POST

Appendix C : AIM ID

Barcode Type	AIM ID	clarification
code 128/ean/ucc 128/gs1-128	]Cm	0,1,2,4
CODE39	]Am	0,1,3,4,5,7
CODE32	]X0	
CODE11	]Hm	0,1,3
CODABAR	]Fm	0-1
CODE93	]Gm	0-9, A-Z, a-m
EAN13	]E0	
EAN8	]E4	
ISSN		
ISBN	]E0	
UPC-A	]E0	
UPC-E	]E0	
UPC-E1	]E1	
ITF25	]Im	0,1,3
IND25	]S0	
STD25	]Rm	0,1,3
MATRIX25	]X0	
NEC25/COOP25	]X0	
MSI PLSEYY	]Mm	0,1
TELEPEN	]Bm	
PHARMACODE ONE-TRACK		
TRIOPTIC		
QR	]Qm	0-6
MICRO QR	]Qm	
PDF 417	]Lm	0-2
MICRO FDF 417	]Lm	3,4,5
DATA MATRIX/DM	]dm	0-6
AZTEC CODE	]zm	0-9, A-C
HAN XIN	]X0	
MAXI CODE	]Um	0-3
DOTCODE	]X0	
GM	]X0	
CODABLOCK A	]O6	0,1,4,5,6
CODABLOCK F	]Om	0,1,4,5,6
GS1 DATABAR/RSS	]e0	
KOREA POST	]X0	

Appendix D: Instruction set

Parameter name		instruction set
command trigger	Start scanning	>200,000.^;99
	End Sweep	>^;99
	Starting no timeout sweeps	>^;99
Device Reset		>^;99
configure	Restore user default configuration	>!0016001.>;99
	Save the current configuration as the user's default	>!0016010.>;99
version information		>^;99
Setting Code Switch	Disable	>!0010210.>;99
	enable	>!0010211.>;99
Setting code content output	Disable	>!0010220.>;99
	enable	>!0010221.>;99
communication method	serial port (computing)	>!0010060.>;99
	USB HID-KBW	>!0010061.>;99
	USB COM	>!0010062.>;99
	USB HID-POS	>!0010063.>;99
Keyboard Layout	United States of America	>!00100B1.>;99
	Belgium	>!00100B2.>;99
	Brazil, Portuguese (Brazil ABNT)	>!00100B3.>;99
	Denmark	>!00100B6.>;99
	Suomi	>!00100B7.>;99
	French	>!00100B8.>;99
	Austria, Germany	>!00100B9.>;99
	Greece	>!00100B10.>;99
	Hungary	>!00100B11.>;99
	Italy	>!00100B13.>;99
	Latin America, South American countries	>!00100B14.>;99
	the Netherlands	>!00100B15.>;99
	Norway	>!00100B16.>;99
	Polish	>!00100B17.>;99
	Portugal	>!00100B18.>;99
	Romania	>!00100B19.>;99
	Georgia	>!00100B20.>;99
	Slovakia	>!00100B21.>;99
	Spanish	>!00100B22.>;99
	Sweden	>!00100B23.>;99
Turkey F	>!00100B25.>;99	
Turkey Q	>!00100B26.>;99	

	United Kingdom of Great Britain and Northern Ireland	>!00100B27.>;99
	Japanese	>!00100B28.>;99
	Czech Republic (from 1993)	>!00100B29.>;99
	Thailand K	>!00100B30.>;99
	Belarus	>!00100B31.>;99
	Arab region 101	>!00100B32.>;99
	Croatia, Slovenia	>!00100B33.>;99
	South Korea (Republic of Korea)	>!00100B34.>;99
	Bulgaria	>!00100B35.>;99
	Multi-country	>!00100B36.>;99
	Vietnam	>!00100B37.>;99
Keyboard Type	Standard Keyboard	>!00100E0.>;99
	virtual keyboard	>!00100E1.>;99
Keyboard letter case conversion	Alphabetic case normal	>!00100D0.>;99
	Convert all letters to uppercase	>!00100D1.>;99
	Convert all letters to lowercase	>!00100D2.>;99
	case inversion	>!00100D3.>;99
Keyboard Character Transmission Interval	0ms	>!00100C0.>;99
	5ms	>!00100C5.>;99
	10ms	>!00100C10.>;99
	20ms	>!00100C20.>;99
	30ms	>!00100C30.>;99
	50ms	>!00100C50.>;99
Keyboard Control Character Output Method	Output Function Keys	>!0010310.>;99
	Output CTRL key combination	>!0010311.>;99
	Output ALT+number keys	>!0010312.>;99
baud	600	>!0010071.>;99
	1200	>!0010072.>;99
	2400	>!0010073.>;99
	4800	>!0010074.>;99
	9600	>!0010075.>;99
	14400	>!0010076.>;99
	19200	>!0010077.>;99
	38400	>!0010078.>;99
	57600	>!0010079.>;99
	115200	>!00100710.>;99
check digit	not valid	>!0010090.>;99
	odd-number	>!0010091.>;99
	even number	>!0010092.>;99
stop bit	1 place	>!00100A0.>;99
	2-bit	>!00100A2.>;99
data bit	5-bit	>!0010080.>;99

	6-bit	>!0010081.>;99
	7-bit	>!0010082.>;99
	8-bit	>!0010083.>;99
recognition mode	Key Hold	>!0010000.>;99
	Single keystroke trigger	>!0010001.>;99
	Continuous mode	>!0010002.>;99
	Auto-sensing mode	>!0010003.>;99
inductive sensitivity	high sensitivity	>!0010051.>;99
	medium sensitivity	>!0010058.>;99
	low sensitivity	>!00100515.>;99
inductive stabilization time	100ms	>!001004100.>;99
	200ms	>!001004200.>;99
	300ms	>!001004300.>;99
	400ms	>!001004400.>;99
	500ms	>!001004500.>;99
	1000ms	>!0010041000.>;99
homologous code reading interval	0ms	>!0010030.>;99
	100ms	>!001003100.>;99
	300ms	>!001003300.>;99
	500ms	>!001003500.>;99
	1000ms	>!0010031000.>;99
	3000ms	>!0010033000.>;99
Single Scanning Duration	0ms (infinite length)	>!0010010.>;99
	1000ms	>!0010011000.>;99
	2000ms	>!0010012000.>;99
	3000ms	>!0010013000.>;99
	5000ms	>!0010015000.>;99
	10000ms	>!00100110000.>;99
Interval time between sweeps	0ms (no interval)	>!0010020.>;99
	500ms	>!001002500.>;99
	1000ms	>!0010021000.>;99
	2000ms	>!0010022000.>;99
	5000ms	>!0010025000.>;99
	10000ms	>!00100210000.>;99
Power Mode	sleep mode	>!0010251.>;99
	Continuous operation mode	>!0010250.>;99
illumination	Lighting General	>!0010150.>;99
	unlit	>!0010151.>;99
	Lighting always on	>!0010152.>;99
fig. aim (for a higher standard)	aim at a common (target)	>!0010160.>;99
	no aim	>!0010161.>;99
	aim for constant light	>!0010162.>;99
Honeydew Type	passive	>!0010110.>;99

	active	>!0010111.>;99
loudness	unmute	>!0010100.>;99
	woofer	>!00101010.>;99
	midrange	>!00101050.>;99
	soprano	>!001010100.>;99
boot-up beep	Disable	>!0010120.>;99
	enable	>!0010121.>;99
Setting Code Beeps	Disable	>!0010140.>;99
	enable	>!0010141.>;99
decoding tone	Disable	>!0010130.>;99
	enable	>!0010131.>;99
Decode Beep Frequency	1500Hz	>!0010361500.>;99
	2000Hz	>!0010362000.>;99
	2500Hz	>!0010362500.>;99
	2700Hz	>!0010362700.>;99
	3000Hz	>!0010363000.>;99
	3500Hz	>!0010363500.>;99
Decode Beep Duration	50ms	>!00103750.>;99
	70ms	>!00103770.>;99
	100ms	>!001037100.>;99
	150ms	>!001037150.>;99
	200ms	>!001037200.>;99
	300ms	>!001037300.>;99
Tip light type	Decoding Tips	>!0010170.>;99
	Power Tip	>!0010171.>;99
Successful decoding light	Disable	>!0010180.>;99
	enable (sb. to do sth)	>!0010181.>;99
Successful decoding prompt light control mode	Mode 0: Power on and off	>!0010190.>;99
	Mode 1: Power on long light	>!0010191.>;99
Decode Status NR Output	Disable	>!0010240.>;99
	enable	>!0010241.>;99
Input Character Set	automation	>!00101C0.>;99
	GBK	>!00101C1.>;99
	UTF8	>!00101C2.>;99
	ASCII	>!00101C3.>;99
	Shift-JIS Japanese	>!00101C4.>;99
output character set	original format	>!00101D0.>;99
	GBK	>!00101D1.>;99
	UTF8	>!00101D2.>;99
AIM ID	Disable	>!00101B0.>;99
	enable	>!00101B1.>;99
CODE ID	Disable	>!00101A0.>;99
	enable	>!00101A1.>;99

closing character	Disable	>!0010200.>;99
	carriage return	>!0010201.>;99
	enter (computer key)	>!0010202.>;99
	skip a check	>!0010203.>;99
prefix (linguistics)	Disable	>!00101E0.>;99
	enable	>!00101E1.>;99
Example of Prefix Content Setting	Add prefix A (hex 41)	>!01080041.>;99
	Add prefix AB (hexadecimal 41 42)	>!010800414243.>;99
suffix (linguistics)	Disable	>!00101F0.>;99
	enable	>!00101F1.>;99
Example of Suffix Content Setting	Add suffix A (hex 41)	>!01080141.>;99
	Add suffix AB (hexadecimal 41 42)	>!010801414243.>;99
Add prefixes based on barcode type	Disable	>!00103D0.>;99
	enable	>!00103D1.>;99
Example of adding prefix content based on barcode type	Add QR code (hexadecimal 3D) prefix A (hexadecimal 41)	>!0108063D41.>;99
	Add all codes (hex FF) prefix AB (hex 41 42)	>!010806FF4142.>;99
Clear prefixes based on barcode type	Clear QR code (hexadecimal 3D) prefixes	>!0108083D.>;99
	Clear all code (hexadecimal FF) prefixes	>!010808FF.>;99
Add suffixes based on barcode type	Disable	>!00103E0.>;99
	enable	>!00103E1.>;99
Example of adding suffix content based on barcode type	Add QR code (hexadecimal 3D) suffix A (hexadecimal 41)	>!0108073D41.>;99
	Add all codes (hex FF) suffix AB (hex 41 42)	>!010807FF4142.>;99
Clear suffixes based on barcode type	Clear QR Code (Hexadecimal 3D) Suffix	>!0108093D.>;99
	Clear all code (hexadecimal FF) suffixes	>!010809FF.>;99
Hide Fixed Character Switch	Disable	>!00102C0.>;99
	enable	>!00102C1.>;99
Example of Hide Fixed Character Content Setting	Hidden character A (hex 41)	>!01080241.>;99
	Hide line feeds (hex 0A)	>!0108020A.>;99
Retention of barcode data based on length	Disable	>!0010290.>;99
	forward indexing	>!0010291.>;99
	Inverted phase indexing	>!0010292.>;99
Example of a reserved data start position	Reservation from the 11th position	>!00102A11.>;99

	Reservations from the 100th position	>!00102A100.>;99
Example of reserved data end position	End of reservation at position 11	>!00102B11.>;99
	End of reservation at 100th position	>!00102B100.>;99
Hide barcode data by length	Disable	>!0010260.>;99
	forward indexing	>!0010261.>;99
	Inverted phase indexing	>!0010262.>;99
Example of hiding the starting position of data	The 11th position begins to hide	>!00102711.>;99
	Hidden from the 100th position	>!001027100.>;99
Example of hiding the end position of data	11th position ends hidden	>!00102811.>;99
	100th position ends hidden	>!001028100.>;99
Hide barcode data of any length according to barcode type	Disable	>!00103F0.>;99
	forward indexing	>!00103F1.>;99
	Inverted phase indexing	>!00103F2.>;99
Example of hiding data start position by barcode type	QR code (hexadecimal 3D) starts hiding at bit 11 (hexadecimal 0B)	>!01080A3D0B.>;99
	All codes (hexadecimal FF) are hidden from the 100th bit (hexadecimal 64).	>!01080AFF64.>;99
Example of hiding the end position of the data according to the barcode type	QR code (hexadecimal 3D) bit 11 (hexadecimal 0B) end hidden	>!01080B3D0B.>;99
	All codes (hexadecimal FF) 100th bit (hexadecimal 64) end hidden	>!01080BFF64.>;99
Hide any length of barcode header data by barcode type	Disable	>!00104A0.>;99
	enable	>!00104A1.>;99
Example of hiding arbitrary length settings in the barcode header according to the barcode type	QR code (hexadecimal 3D) hides the header 11 bits (hexadecimal 0B) in length	>!01080C3D0B.>;99
	All codes (hexadecimal FF) hide header 100 bits (hexadecimal 64) in length	>!01080CFF64.>;99
Hide any length of data at the end of the barcode according to the barcode type	Disable	>!00104B0.>;99
	enable	>!00104B1.>;99
Example of Hide Barcode Tail Arbitrary Length Setting by Barcode Type	QR code (hexadecimal 3D) hides the trailing 11 bits (hexadecimal 0B) of length	>!01080D3D0B.>;99
	All codes (hexadecimal FF) hide trailing 100-bit (hexadecimal 64) lengths	>!01080DFF64.>;99
Insert Custom Data Switch	Disable	>!00102D0.>;99
	enable	>!00102D1.>;99

Customized Insert Data Example	Insert character A (hex 41)	>!01080341.>;99
	Insert the characters ABC (hexadecimal 41 42 43)	>!010803414243.>;99
Insertion Position Setting Example	Insert from after the 5th digit	>!00102E5.>;99
	Start inserting after the 20th bit of data	>!00102E20.>;99
Data replacement function switch	Disable	>!00102F0.>;99
	enable (sb. to do sth)	>!00102F1.>;99
Example of replaced data	Data 6 (hexadecimal 36) replaced	>!01080436.>;99
	Data line feeds (hex 0A) are replaced	>!0108040A.>;99
Example of Replacement Data	Replace data with A (hex 41)	>!01080541.>;99
	Replace data with BC (hexadecimal 42 43)	>!0108044243.>;99
carriage return	Disable	>!0010390.>;99
	enable	>!0010391.>;99
Web Site Switch	Scan the URL code	>!0010330.>;99
	Disable site code	>!0010331.>;99
invoicing function	Disable	>!0010340.>;99
	enable	>!0010341.>;99
Invoice type	VAT special invoice	>!0010350.>;99
	VAT general invoice	>!0010351.>;99
GS1 Rule Switch	Disable	>!0010320.>;99
	enable	>!0010321.>;99
Command Response	Disable	>!0010380.>;99
	enable	>!0010381.>;99
command tone	Disable	>!0010300.>;99
	enable	>!0010301.>;99
packet format	Disable	>!0010230.>;99
	enable	>!0010231.>;99
global switch	Disable	>!0005020.>;99
	enable	>!0005021.>;99
	default (setting)	>!0005022.>;99
1D Global Switch	Disable	>!0005000.>;99
	enable	>!0005001.>;99
	default (setting)	>!0005002.>;99
QR Code Global Switch	Disable	>!0005010.>;99
	enable	>!0005011.>;99
	default (setting)	>!0005012.>;99
Barcode Security Levels	0	>!0005080.>;99
	1	>!0005081.>;99

	2	>!0005082.>;99
	3	>!0005083.>;99
	4	>!0005084.>;99
Must read multiple codes	Disable	>!0005050.>;99
	enable	>!0005051.>;99
Number of multicode readings	1	>!0005061.>;99
	2	>!0005062.>;99
	3	>!0005063.>;99
	4	>!0005064.>;99
	5	>!0005065.>;99
	6	>!0005066.>;99
Global inverse color switch	Disable	>!0005030.>;99
	enable	>!0005031.>;99
CODE128 Inverted Color Switch	Disable	>!0000150.>;99
	enable	>!0000151.>;99
EAN/UPC Reverse Color Switch	Disable	>!0000560.>;99
	enable	>!0000561.>;99
ITF25 Inverted Color Switch	Disable	>!0000B50.>;99
	enable	>!0000B51.>;99
CODE39 Inverted Color Switch	Disable	>!00014B0.>;99
	enable	>!00014B1.>;99
CODABAR Inverted Color Switch	Disable	>!0001580.>;99
	enable	>!0001581.>;99
CODE93 Inverted Color Switch	Disable	>!0001650.>;99
	enable	>!0001651.>;99
CODE128 Barcode Switch	Disable	>!0000100.>;99
	enable	>!0000101.>;99
CODE128 Minimum Length Setting Example	2-bit CODE128	>!0000122.>;99
	11-bit CODE128	>!00001211.>;99
CODE128 Maximum Length Setting Example	12-bit CODE128	>!00001312.>;99
	20-bit CODE128	>!00001320.>;99
CODE128 security level	lower (one's head)	>!0000140.>;99
	center	>!0000141.>;99
	your (honorific)	>!0000142.>;99
GS1-128 Barcode Switch	Disable	>!0000200.>;99
	enable	>!0000201.>;99
GS1-128 Minimum Length Setting Example	2-bit GS1-128	>!0000222.>;99
	11-bit GS1-128	>!00002211.>;99
GS1-128 Maximum Length Setting Example	12-bit GS1-128	>!00002312.>;99
	20-bit GS1-128	>!00002320.>;99
CODE39 Barcode Switch	Disable	>!0001400.>;99
	enable	>!0001401.>;99
CODE39 FULL ASCII Switch	Disable	>!0001440.>;99

	enable	>!0001441.>;99
CODE39 Checksum Verification	Disable	>!0001410.>;99
	enable	>!0001411.>;99
CODE39 Checksum Transfer	Disable	>!0001420.>;99
	enable	>!0001421.>;99
CODE39 Start/End Character Transmission	Disable	>!0001430.>;99
	enable	>!0001431.>;99
CODE39 Minimum Length Example	5-bit CODE39	>!0001455.>;99
CODE39 Maximum Length Example	12-bit CODE39	>!00014612.>;99
CODE32 Barcode Switch	Disable	>!0001470.>;99
	enable	>!0001471.>;99
CODE32 Prefix	Disable	>!0001480.>;99
	enable	>!0001481.>;99
CODE32 Checksum Verification	Disable	>!0001490.>;99
	enable	>!0001491.>;99
CODE32 Checksum Transfer	Disable	>!00014A0.>;99
	enable	>!00014A1.>;99
EAN13 Barcode Switch	Disable	>!0000600.>;99
	enable	>!0000601.>;99
EAN13 Checksum Transmission	Disable	>!0000610.>;99
	enable	>!0000611.>;99
EAN13 + 2-digit additional code	Disable	>!0000620.>;99
	enable	>!0000621.>;99
EAN13 + 5-digit additional code	Disable	>!0000630.>;99
	enable	>!0000631.>;99
Read-only with additional code EAN13	Disable	>!0000640.>;99
	enable	>!0000641.>;99
EAN8 Barcode Switch	Disable	>!0000500.>;99
	enable	>!0000501.>;99
EAN8 parity bit transmission	Disable	>!0000510.>;99
	enable	>!0000511.>;99
EAN8 + 2 additional digits	Disable	>!0000520.>;99
	enable	>!0000521.>;99
EAN8 + 5 additional digits	Disable	>!0000530.>;99
	enable	>!0000531.>;99
Read-only with additional code EAN8	Disable	>!0000540.>;99
	enable	>!0000541.>;99
ISSN Barcode Switches	Disable	>!0000700.>;99
	enable	>!0000701.>;99
ISBN Barcode Switch	Disable	>!0000800.>;99
	enable	>!0000801.>;99

UPC-A Barcode Switch	Disable	>!0000A00.>;99
	enable	>!0000A01.>;99
UPC-A Check Digit Transmission	Disable	>!0000A10.>;99
	enable	>!0000A11.>;99
UPC-A + 2-digit additional code	Disable	>!0000A20.>;99
	enable	>!0000A21.>;99
UPC-A + 5-digit additional code	Disable	>!0000A30.>;99
	enable	>!0000A31.>;99
Read-only with additional code UPC-A	Disable	>!0000A40.>;99
	enable	>!0000A41.>;99
Transmission system character 0	Disable	>!0000A50.>;99
	enable	>!0000A51.>;99
Transmission country character 0	Disable	>!0000A60.>;99
	enable	>!0000A61.>;99
UPC-E Barcode Switch	Disable	>!0000900.>;99
	enable	>!0000901.>;99
UPC-E Check Digit Transmission	Disable	>!0000910.>;99
	enable	>!0000911.>;99
UPC-E + 2-digit additional code	Disable	>!0000920.>;99
	enable	>!0000921.>;99
UPC-E + 5-digit additional code	Disable	>!0000930.>;99
	enable	>!0000931.>;99
Read-only with additional code UPC-E	Disable	>!0000940.>;99
	enable	>!0000941.>;99
UPC-E to UPC-A	Disable	>!0000960.>;99
	enable	>!0000961.>;99
Transmission system character 0	Disable	>!0000950.>;99
	enable	>!0000951.>;99
Transmission country character 0	Disable	>!0000980.>;99
	enable	>!0000981.>;99
UPC-E1 Barcode Switch	Disable	>!0000970.>;99
	enable	>!0000971.>;99
CODE93 Barcode Switch	Disable	>!0001600.>;99
	enable	>!0001601.>;99
CODE93 Minimum Length Example	5-bit CODE93	>! <u>0001635</u> >;99
CODE93 Maximum Length Example	12-bit CODE93	>! <u>00016412</u> >;99
CODABAR Barcode Switch	Disable	>!0001500.>;99
	enable	>!0001501.>;99
CODABAR Check Digit Validation	Disable	>!0001510.>;99
	enable	>!0001511.>;99
CODABAR Check Digit	Disable	>!0001520.>;99

Transmission	enable	>!0001521.>;99
CODABAR start/end character transfer	Disable	>!0001530.>;99
	enable	>!0001531.>;99
CODABAR start/end character format	ABCD/TN*E format	>!0001541.>;99
	General ABCD format	>!0001540.>;99
CODABAR start/end character passes case	lowercase (letters)	>!0001551.>;99
	uppercase letters	>!0001550.>;99
CODABAR Minimum Length Example	5 CODABAR	>!0001565.>;99
CODABAR Maximum Length Example	12-bit CODABAR	>!00015712.>;99
ITF25 Barcode Switch	Disable	>!0000B00.>;99
	enable	>!0000B01.>;99
ITF25 Check Digit Verification	Disable	>!0000B10.>;99
	enable	>!0000B11.>;99
ITF25 Check Bit Transmission	Disable	>!0000B20.>;99
	enable	>!0000B21.>;99
ITF25 Minimum Length Example	5 ITF25	>!0000B35.>;99
Example of maximum length of ITF25	12-bit ITF25	>!0000B412.>;99
Government of Brazil/Banks	Disable	>!0000B70.>;99
	enable	>!0000B71.>;99
MATRIX25 Barcode Switch	Disable	>!0001100.>;99
	enable	>!0001101.>;99
MATRIX25 Check Digit Verification	Disable	>!0001110.>;99
	enable	>!0001111.>;99
MATRIX25 Check Digit Transmission	Disable	>!0001120.>;99
	enable	>!0001121.>;99
MATRIX25 Minimum Length Example	5 MATRIX25	>!0001135.>;99
MATRIX25 Maximum Length Example	12-bit MATRIX25	>!00011412.>;99
STD25 Barcode Switch	Disable	>!0001300.>;99
	enable	>!0001301.>;99
STD25 Minimum Length Example	5-bit STD25	>!0001335.>;99
STD25 Maximum Length Example	12-bit STD25	>!00013412.>;99
IND25 Barcode Switch	Disable	>!0001200.>;99
	enable	>!0001201.>;99
IND25 Minimum Length Example	5 IND25	>!0001235.>;99

IND25 Maximum Length Example	12 digits IND25	>!00012412.>;99
NEC25 Barcode Switch	Disable	>!0001000.>;99
	enable	>!0001001.>;99
NEC25 Check Digit Verification	Disable	>!0001010.>;99
	enable	>!0001011.>;99
NEC25 Check Digit Transmission	Disable	>!0001020.>;99
	enable	>!0001021.>;99
NEC25 Minimum Length Example	5 NEC25	>!0001035.>;99
NEC25 Maximum Length Example	12-bit NEC25	>!00010412.>;99
HK25/CHINA POST/DATALOGIC25 Barcode Switches	Disable	>!0001F90.>;99
	enable	>!0001F91.>;99
CODE11 Barcode Switch	Disable	>!0001700.>;99
	enable	>!0001710.>;99
CODE11 Check Digit Verification	not calibrated	>!0001710.>;99
	1-bit checksum	>!0001711.>;99
	2-bit checksum	>!0001712.>;99
CODE11 Check Digit Transmission	Disable	>!0001720.>;99
	enable	>!0001721.>;99
CODE11 Minimum Length Example	5-bit CODE11	>!0001735.>;99
CODE11 Maximum Length Example	12-bit CODE11	>!00017412.>;99
MSI PLSEYY Barcode Switch	Disable	>!0001900.>;99
	enable	>!0001901.>;99
MSI PLESSY Check Digit Verification	MOD10 Single Character Check	>!0001911.>;99
	MOD10/MOD10 Dual Character Check	>!0001912.>;99
	MOD10/MOD11 Dual Character Check	>!0001913.>;99
MSI PLESSY parity bit transmission	Disable	>!0001921.>;99
	enable	>!0001920.>;99
MSI PLESSY Minimum Length Example	5 MSIPLESSY	>!0001935.>;99
MSI PLESSY Maximum Length Example	12-bit MSIPLESSY	>!00019412.>;99
TELEPEN Switches	Disable	>!0001B90.>;99
	enable	>!0001B91.>;99
PHARMACODE ONE-TRACK Switch	Disable	>!0001C00.>;99
	enable	>!0001C01.>;99

Barcode direction	level (of achievement etc)	>!0001C10.>;99
	perpendicular	>!0001C11.>;99
data inversion	Disable	>!0001C20.>;99
	enable	>!0001C21.>;99
TRIOPTIC Barcode Switch	Disable	>!0001C90.>;99
	enable	>!0001C91.>;99
QR Barcode Switch	Disable	>!0003100.>;99
	enable	>!0003101.>;99
QR positive and negative color recognition	read-only color	>!0003120.>;99
	read-only reverse color	>!0003121.>;99
	Readable in both positive and negative colors	>!0003122.>;99
QR mirror reading	Disable	>!0003140.>;99
	enable	>!0003141.>;99
DM Barcode Switch	Disable	>!0003200.>;99
	enable	>!0003201.>;99
DM positive and negative color recognition	read-only color	>!0003220.>;99
	read-only reverse color	>!0003221.>;99
	Readable in both positive and negative colors	>!0003222.>;99
DM mirror reading	Disable	>!0003240.>;99
	enable	>!0003241.>;99
DM ECI control	Disable	>!0003230.>;99
	enable	>!0003231.>;99
PDF417 Barcode Switch	Disable	>!0003000.>;99
	enable	>!0003001.>;99
PDF417 positive and negative color reading	read-only color	>!0003020.>;99
	read-only reverse color	>!0003021.>;99
	Readable in both positive and negative colors	>!0003022.>;99
AZTEC CODE Barcode Switches	Disable	>!0003400.>;99
	enable	>!0003401.>;99
GS1 DATABAR/RSS Barcode Switch	Disable	>!0001A00.>;99
	enable	>!0001A01.>;99
COMPOSITE Barcode Switch	Disable	>!0001B00.>;99
	enable	>!0001B01.>;99
HAN XIN Barcode Switch	Disable	>!0003500.>;99
	enable	>!0003501.>;99
HAN XIN code ECI control	Disable	>!0003530.>;99
	enable	>!0003531.>;99
MAXI CODE Barcode Switches	Disable	>!0003300.>;99
	enable	>!0003301.>;99
DOTCODE Barcode Switch	Disable	>!0003700.>;99

	enable	>!0003701.>;99
CODABLOCK A Barcode Switch	Disable	>!0001D00.>;99
	enable	>!0001D01.>;99
CODABLOCK F Barcode Switch	Disable	>!0001D90.>;99
	enable	>!0001D91.>;99
GM CODE Barcode Switch	Disable	>!0003600.>;99
	enable	>!0003601.>;99
POSTAL CODE barcode switch	Disable	>!0001E00.>;99
	Australian	>!0001E01.>;99
	British, Royal Mail (RM4CSS)	>!0001E02.>;99
	Intelligent Mail Bar	>!0001E05.>;99
	Japanese Post	>!0001E06.>;99
	KIX Post	>!0001E07.>;99
	Planet code	>!0001E08.>;99
	USPS Postnet	>!0001E09.>;99
	Postal-4i/UPU FICS/UPU4-State	>!0001E010.>;99
Planet code parity bit transfer	Disable	>!0001E10.>;99
	enable	>!0001E11.>;99
Planet code parity bit transfer	Disable	>!0001E20.>;99
	enable	>!0001E21.>;99
OCR Switch	Disable	>!0003800.>;99
	enable	>!0003801.>;99
China Identity Card Verification	Disable	>!0003810.>;99
	enable	>!0003811.>;99
KOREA POST	Disable	>!0002000.>;99
	enable	>!0002001.>;99
KOREA POST checksum bit transmission	Disable	>!0002010.>;99
	enable	>!0002011.>;99
KOREA POST data reversal	Disable	>!0002020.>;99
	enable	>!0002021.>;99

Appendix E: ASCII Cross Reference Table

hexadecimal	Keyboard Function Key Operation	Keyboard CTRL key combination operation
00h	Null	CTRL 2
01h	Keypad Enter	CTRL A
02h	Caps lock	CTRL B
03h	Right Arrow	CTRL C
04h	Up Arrow	CTRL D
05h	Null	CTRL E
06h	Null	CTRL F
07h	Enter	CTRL G
08h	Left Arrow	CTRL H
09h	Horizontal Tab	CTRL I
0Ah	Down Arrow	CTRL J
0Bh	Vertical Tab	CTRL K
0Ch	Backspace	CTRL L
0Dh	Enter	CTRL M
0Eh	Insert	CTRL N
0Fh	Esc	CTRL O
10h	F11	CTRL P
11h	Home	CTRL Q
12h	Print Screen	CTRL R
13h	Delete	CTRL S
14h	tab+shift	CTRL T
15h	F12	CTRL U
16h	F1	CTRL V
17h	F2	CTRL W
18h	F3	CTRL X
19h	F4	CTRL Y
1Ah	F5	CTRL Z
1Bh	F6	CTRL [
1Ch	F7	CTRL \
1Dh	F8	CTRL]
1Eh	F9	CTRL 6
1Fh	F10	CTRL -
20h	Space	
21h	!	
22h	"	
23h	#	
24h	\$	

25h	%
26h	&
27h	'
28h	(
29h)
2Ah	*
2Bh	+
2Ch	,
2Dh	-
2Eh	.
2Fh	/
30h	0
31h	1
32h	2
33h	3
34h	4
35h	5
36h	6
37h	7
38h	8
39h	9
3Ah	:
3Bh	;
3Ch	<
3Dh	=
3Eh	>
3Fh	?
40h	@
41h	A
42h	B
43h	C
44h	D
45h	E
46h	F
47h	G
48h	H
49h	I
4Ah	J
4Bh	K
4Ch	L
4Dh	M
4Eh	N
4Fh	O

50h	P
51h	Q
52h	R
53h	S
54h	T
55h	U
56h	V
57h	W
58h	X
59h	Y
5Ah	Z
5Bh	[
5Ch	\windshield
5Dh]
5Eh	^
5Fh	_
60h	`
61h	a
62h	b
63h	c
64h	d
65h	e
66h	f
67h	g
68h	h
69h	i
6Ah	j
6Bh	k
6Ch	l
6Dh	m
6Eh	n
6Fh	o
70h	p
71h	q
72h	r
73h	s
74h	t
75h	u
76h	v
77h	w
78h	x
79h	y
7Ah	z

7Bh	{
7Ch	|
7Dh	}
7Eh	~
7Fh	

Appendix F : Barcode Types

barcode	hexadecimal type
code 128/ean/ucc 128/gs1-128	01h
CODE39/CODE32	14h
CODE11	17h
CODABAR	15h
CODE93	16h
EAN8	05h
EAN13/ISBN	06h
ISSN	07h
UPC-E	09h
UPC-A	0Ah
ITF25	0Bh
IND25	12h
STD25	13h
MATRIX25	11h
NEC25/COOP25	10h
MSI PLSEYY	19h
TELEPEN	1Fh
PHARMACODE ONE-TRACK	23h
TRIOPTIC	22h
QR/MICRO QR	3Dh
PDF 417/MICRO FDF 417	3Ch
DATA MATRIX/DM	3Fh
AZTEC CODE	3Eh
HAN XIN	43h
MAXI CODE	40h
DOTCODE	45h
GM	44h
CODABLOCK A	26h
CODABLOCK F	24h
GS1 DATABAR/RSS	1Ah
POSTAL CODE	25h
OCR	46h
HONG KONG 2 of 5/CHINA POST	20h
all code	FFh