User Manual

32B

V1.18.1

Introduction

433M wireless scanner is one of our scanners, used with 433MHz ISM band. Ideal for a wide range of application from warehouses to chain-store supermarkets and post offices.

This product has scanner and receiver two parts, basic usage is as below:

-Connecting receiver and computer with cable, the USB-HID driver will be installed in computer automatically.

-Trigger the scanner button, scanner will be waked up with beep and send the handshake signal to the terminal at the same time.

-After the handshake success, scanner will start to read the bar code, and upload the data to the terminal software.

Features:

-One receiver can set up with 255 scanner at most.

-Pairing can be done with one scanning.

-Large capacity battery support for up to 4 hours continuous scanning and uploading.

-One scanning switch function so that it could adapt to the wireless channel interference.

-Support random mode and inventory mode.

-Support resume batch report in sleeping mode.

-Store up to 2000 bar codes.

Scanner:

If the battery is too low to start, when button is pressed, the LED will be flashing red and green in interval for 1 second; when the button is released, scanner will continue to sleep.

After trigger the button, indicated with two beeps, LED turns to green. If the current voltage is under voltage detection, LED will turn to red and give an alarm.

Scanner will send the synchronizing signal to the terminal, it will be succeed with a “beep”, LED will flash once in red and green; If synchronized unsuccessfully in 6 seconds, scanner will give an alarm and LED will flash twice in red and green.

Scan and upload data success with two different beep, the first beep means decoding success, the last beep means data upload success, LED flash once in red and green .If data could not be upload, replace the beep with alarm and LED will flash twice in red and green.

In the full memory storage mode, will be accompanied by a buzzer alarm.

When scanner is low powered, LED will turn to red .

Terminal:

433M: When power on, power LED is green color, function LED will first flash in red and blue, and then keep in purple for about 30s, terminal will synchronize with scanner during this period. After function LED turns off, synchronization is completed. Function LED is red when charging the scanner and it is blue when the scanner is fully charged.

2.4G: LED is red and flash twice when power on. LED will flash twice again if it is synchronized with scanner successfully. LED is red when charging the scanner and it is blue when the scanner is fully charged.

Index

Add ^3" before the data source when make Setting codes by using "128 code"。

1. Scanner Basic Characteristics

1.1 Reset Configuration to Defaults

（1）Reset Para. for Tx

After scanning 0B,scanner will perform the following operations:

The scanner parameters are set to factory defaults, detail parameters please see appendix A.

All the wireless parameters are set to original state, and stop any transceiver.

（2）Reset Para. for Rx

After scanning 0C, receiver will preform the following operations:

Reset all the wireless parameters to factory defaults, details as appendix A.

Reset Para for Tx

0B

Reset Para for Rx

0C

1.2 Firmware Version

Scanning 0A success, the scanner version will be showed on the terminal; scanning 0D success, the receiver version will be showed on the terminal.

Firmware Version(Tx)

0A

Firmware Version(Rx)

0D

1.3 Forced into Sleep Mode

Scanning 0E, scanner will enter the sleep mode ,no matter what current state is. To use the setting is to reset some temporary wireless data and re-establish the connection.

Forced into Sleep Mode

0E

1.4 Transmission Mode

Transmission for scanner and receiver:

Scanner has 2 wireless data transmission mode:

-Random mode will upload the data after success scanning with beep, and upload fail with alarm and data will not be stored, and it is the defaulted mode.

-Inventory mode, the user scans the data to memory, and data will be uploaded to terminal after scan the inventory mode.

Note: Switch between any mode will clear the memory.

Random Mode

031000

Inventory Mode

031002

Receiver has 2 wireless data transmission mode:

USB-KBW

03B000

USB-VCOM

03B001

1.5 Fast Pairing

Pairing means the scanner matches to the receiver to avoid system working confusion. Scanner read the paring setting, and the receiver will be observed with indicator flashing. As the matching process is the scanner broadcasting process, please keep one receiver power on only in 10m, otherwise it will broadcast to other terminal.

Once scanner cancel pairing, scanner sending data is in broadcasting state, any terminal will receive it.

Fast Pairing

033001

Cancel Pairing

033000

1.6 Frequency Offset

Frequency offset is valid for scanner and terminal, to change the current frequency to avoid other interference. This system working band is 433MHz, is also factory default band. The system also provides 21 channels for setting, detail as below:

Firstly setting the channel for terminal, and waiting for the scanner to response;

Then setting the channel for scanner, make sure this channel is same as the terminal's.

The following is the channel point corresponding to the setting code for scanner:

Channel	Point (M)	Setting Code	Channel	Point (M)	Setting Code
0	433.092	034000	10	442.092	034010
1	430.092	034001	11	445.092	034011
2	427.092	034002	12	448.092	034012
3	424.092	034003	13	451.092	034013
4	421.092	034004	14	454.092	034014
5	418.092	034005	15	457.092	034015
6	415.092	034006	16	460.092	034016
7	412.092	034007	17	463.092	034017
8	436.092	034008	18	466.092	034018
9	439.092	034009	19	469.092	034019
			20	472.092	034020

For terminal: all the channels are same as scanner's, only the first four numbers are "0390".Such as the setting code of channel 0 is 039000, setting code of channel 18 will be 039018. The following are some setting codes for scanner and terminal:

Scanner Channel 0

034000

Scanner Channel 7

034007

Scanner Channel 20

034020

Terminal Channel 0

039000

Terminal Channel 7

039007

Terminal Channel 20

039020

1.7 Inventory Options

All the inventory options will be valid in inventory mode, will be generated a error tone in other modes.

（1）Checking the total number of inventory data

Scanning “032100”， the total number of inventory data will be showed on the terminal.

（2）Uploading inventory data

Scanning “032200”, all the scanning data will be uploaded on the terminal.

Checking Total Number

032100

Uploading the Inventory Data

032200

（3）Inventory auto clear on and off

Inventory data mode can set to clear memory automatically after uploading.

Auto Clear

032301

No Auto Clear

032300

1.8 Memory Options

（1）Allow uploading data after sleeping

This function only can use in none inventory mode . If the scanner is time to sleep, before sleeping data upload unsuccessful because of bad wireless signal, it could be set to upload the unfinished data after wake up.

Upload Data after Sleeping

030001

Clear after Sleeping

030000

（2）Clear Memory

Once scan this setting, all the memory will be cleared no matter when the scanner is in any mode, scanner will stop wireless transmission and waiting for new data.

Clear Memory

032400

1.9 Power Saving Options

The auto-sleep time could be set. Code “035001” means scanner entering auto-sleep mode in 10 seconds. When the last number of code plus 1, sleeping time will add 10 seconds, the maximum time is 1800 seconds, which is 30 minutes.

Auto-sleep in 30Ss

035003

Auto-sleep in 60s

035006

Auto-sleep in 10m

035060

None Auto-sleep Mode

035000

1.10 Address Options

（1）Setting scanner physical address

Each scanner has its own physical address, factory default is 0#, maximum is 254#. We suggest customers to set the physical address for scanners when one terminal matches to more than one scanners.

Scanner Physical Address 1#

037001

Scanner Physical Adress 2#

037002

Scanner Physical Address10#

037010

Scanner Physical Address 254#

037254

（2）Output Physical Address On and Off

If this function is on, scanner physical address will be showed with data on the terminal. For example, scanner 1# uploads data ABC, terminal will show 001--ABC.

Output Physical Add.On

038001

Output Physical Add.Off

038000

1.11 Speaker Mode

(1)Speaker On and Off

Speaker Off

0B142

Speaker On

014200

（2）Tone/Volume Adjustment

After scan the below setting code, the volume will be adjusted to be higher or lower by different scan.

Tone/Volume Adjustment

014301

1.12 Laser Trigger Mode

Level Trigger Mode

013300

Pulse Trigger Mode

013301

Level Trigger Continuous Scan

013302

Pulse Trigger Continuous Scan

013303

Continuous Scan

013304

Blink Mode

013305

1.13 Laser on Trigger

When the last number of bar code 01111111 plus 1， laser will be on more 1s, the longest time is 9s.

1s

01111111

3s

01111113

5s

01111115

9s

01111119

1.14 Auto-scan Mode Option

（1）Auto-scan On and Off

On

001901

Off

001900

（2）Auto Sensitivity Adjustment

Increase

001911

Decrease

001910

1.15 Setting Bar code On and Off

The function is on which can start the related settings, when the function is off, bar code will be output as normal data.

On

01600

Off

0B160

1.16 Set Same Code Delay in Continuous Scan Mode

When in continuous scan mode, scan bar code like 01702, the interval recognized time of the same bar code will be 200ms. When the last number of 01702 plus 2, interval will be add 200ms, the longest same code delay time is 5s.

200ms

01702

500ms

01705

1s

01710

5s

01750

1.17 Reading Safety Class

Some bar code needed to be confirmed more than once before output to avoid decoding error. The lower reading class, decode speed will be higher, the decoding error rate will be higher as well. The higher reading class, decode speed will be lower, the decoding error rate will be lower as well.

Lowest（Class I）

01801

Class II

01802

Class III

01803

Highest（Class IV）

01804

1.18 Code ID Identification Option

Code ID is used to identify the bar code by one letter.

Enable Prefix ID

01401

Enable Suffix ID

01402

Disable Prefix ID

01400

Disable Suffix ID

0B140

1. 19 Keyboard Languages

Support 23 keyboard language, details as table 1.

Table 1

S/N	Languages	Setting	S/N	Languages	Setting
1	USA	03A000	13	Holland	03A012
2	Belgium	03A001	14	Norway	03A013
3	Brazil	03A002	15	Portugal	03A014
4	Canada	03A003	16	Sweden, Finland	03A015
5	Czech	03A004	17	Switzerland	03A016
6	Denmark	03A005	18	Spain	03A017
7	Finland	03A006	19	Russian	03A018
8	France	03A007	20	Turkey 1	03A019
9	Germany Austria	03A008	21	Turkey 2	03A020
10	Greece	03A009	22	England	03A021
11	Hungary	03A010	23	Japan	03A022
12	Italy	03A011			

USA

03A000

Germany

03A008

France

03A007

Spain

03A017

1.20 Transmit Speed Options

The transmit speed between characters of bar code is 10ms after scan the bar code 03C001. When the last number plus 1, the transmit speed will be add more 10ms, the longest delay is 250ms.

0

03C000

10ms

03C001

250ms

03C025

1.21 Letters Conversion

The setting is used to convert the capital letters and small letters.

No Conversion

000A0

All Capital Letters

000A1

All Small Letters

000A2

Case Conversion

000A3

1.22 Ignore Chinese Input

Under the condition of Chinese Input, data could not be uploaded if data carried with letter. Scanning the setting as below could ignore Chinese input.

On

000B1

Off

000B0

1.23 Enable Normal and Inverse Data

Most normal code is black bar code with white background. Some bar code is inverse to be white bar code with black background.

Normal

000C1

Inverse

000C0

2. Different Type of Bar Code Settings

2.1 UPC-A

（1）Read UPC-A on and off as below:

On

00341

Off

00340

（2）Check UPC-A on and off as below:

On

003C1

Off

003C0

（3）Check digit transmission on and off as below:

On

003B1

Off

003B0

（4）Converts UPC - A to EAN 13 on and off as below:

On

00391

Off

00390

（5）UPC - A system character transmission on and off.

On

003A1

Off

003A0

2.2 EAN-13

（1）Read EAN-13 on and off as below:

On

00361

Off

00360

（2）Check EAN-13 on and off as below:

On

003D1

Off

003D0

（3）Check digit transmission on and off as below:

On

003E1

Off

003E0

（4）Convert EAN-13 to ISBN/ISSN on and off as below:

On

00481

Off

00480

2.3 EAN-8

（1）Read EAN-8 on and off as below:

On

00371

Off

00370

（2）Check EAN-8 on and off as below:

On

004A1

Off

004A0

（3）Check digit transmission on and off as below:

On

004B1

Off

004B0

（4）Convert EAN-8 to EAN-13 on and off as below:

On

004C1

Off

004C0

2.4 UPC-E0

（1）Read UPC-E0 on and off as below:

On

00351

Off

00350

（2）Check UPC-E0 on and off as below:

On

004E1

Off

004E0

（3）Check digit transmission on and off as below:

On

004F1

Off

004F0

（4）Convert UPC-E0 to EAN-13 on and off as below:.

On

004D1

Off

004D0

（5）Convert UPC-E0 to UPC-A on and off as below:

On

00381

Off

00380

（6）UPC - E0 system character transmission on and off.

On

004G1

Off

004G0

2.5 UPC-E1

（1）Read UPC-E1 on and off as below:

On

005A1

Off

005A0

（2）Check UPC-E1 on and off as below:

On

005B1

Off

005B0

（3）Check digit transmission on and off as below:

On

005C1

Off

005C0

（4）Convert UPC-E1 to EAN-13 on and off as below:

On

005D1

Off

005D0

（5）Convert UPC-E1 to UPC-A on and off as below:

On

005F1

Off

005F0

（6）UPC - E1system character transmission on and off.

On

005G1

Off

005G0

2.6 CODE39

（1）Read Code39 on and off as below:

On

00221

Off

00220

（2）Check Code39 on and off as below:

On

00241

Off

00240

（3）Check digit transmission on and off as below:

On

00251

Off

00250

（4）Read All ASCII characters on and off as below:

On

00231

Off

00230

（5）Read start character on and off as below:

On

00281

Off

00280

（6）Convert CODE39 to CODE32 on and off as below:

On

002A1

Off

002A0

（7）Read start character of CODE32 on and off as below:

On

002B1

Off

002B0

（8）Read Trioptic 39 on and off as below:

On

002C1

Off

002C0

（9）Read start character of Trioptic39 on and off as below:

On

002D1

Off

002D0

（10）CODE39 Maximum Length

CODE39 maximum length is from 12 to 249 codes, the last three number of code is the maximum length.

12 codes

002E012

249 codes

002E249

（11）CODE39 Minimum Length

CODE39 minimum length is from 1 to 9 codes, the last number of code is the minimum length.

1 code

002F001

9 codes

002F009

2.7 CODE128 Setting

（1）Read Code 128 on and off as below:

On

00691

Off

00690

（2）Check code128 on and off as below:

On

006A1

Off

006A0

（3）Check digit transmission on and off as below:

On

006B1

Off

006B0

（4）Read UCCEAN128 on and off as below:

On

006C1

Off

006C0

（5）Read ISBT-128 on and off as below:

On

00701

Off

00700

2.8 CODE-93

（1）Read Code-93 on and off as below:

On

00621

Off

00620

（2）Check code-93 on and off as below:

On

00631

Off

00630

（3）Check digit transmission on and off as below:

On

00641

Off

00640

2.9 Interleaved 25

（1）Read interleaved 25 on and off as below:

On

00961

Off

00960

（2）Check interleaved 25 on and off as below:

On

009A1

Off

009A0

（3）Check digit transmission on and off as below:

On

009B1

Off

009B0

（4）Interleaved 25 Maximum Length

Interleaved 25 maximum length is from 12 to 249 codes, the last three number of code is the maximum length as below:

12 Codes

009C012

249 Codes

009C249

（5）Interleaved 25 Minimum Length

Interleaved 25 minimum length is from 1 to 9 codes, the last number of code is the minimum length as below:

1 Code

009D001

9 Code

009D009

2.10 Other 25 Code Settings

（1）Read Industrial 25 on and off as below:

On

01061

Off

01060

（2）Read China post 25 on and off as below:

On

010A1

Off

010A0

（3）Read standard 25 on and off as below:

On

010B1

Off

010B0

（4）Other Code 25 Maximum Length

Other code 25 maximum length is from 12 to 249 codes, the last three number of code is maximum length as below:

12 Codes

010C012

249 Codes

010C249

（5）Other Code 25 Minimum Length

Other Code 25 minimum length is from 1 to 9 codes, the last number of code is the minimum length as below:

1 Code

010D001

9 Codes

010D009

2.11 Matrix 25

（1）Read Matrix 25 on and off as below:

On

010E1

Off

010E0

（2）Check Matrix25 on and off as below:

On

010F1

Off

010F0

（3）Check digit transmission on and off as below:

On

010G1

Off

010G0

（4）Matrix 25 Maximum Length

Matrix 25 maximum length is from 12 to 129 codes, the last three number of code is the maximum length as below:

12 Codes

010H012

249 Codes

010H249

（5）Matrix 25 Minimum Length

Matrix 25 minimum length is from 1 to 9 codes, the last number of code is the minimum length as below:

1 Code

010I001

9 Codes

010I009

2.12 Code Bar Settings

（1）Read code bar on and off as below:

On

00851

Off

00850

（2）Check code bar on and off as below:

On

008A1

Off

008A0

（3）Check digit transmission on and off as below:

On

008B1

Off

008B0

（4）Read start character on and off as below:

On

008C1

Off

008C0

（5）Read when same start/end character on and off as below:

On

008D1

Off

008D0

（6）Code Bar Maximum Length

Code Bar maximum length is from 12 to 249 codes, the last three number of code is the maximum length as below:

12 Codes

008F012

249 Codes

008F249

（7）Code Bar Minimum Length

Code bar minimum length is from 1 to 9 codes, the last number of code is the minimum length as below:

1 Code

008G001

9 Codes

008G009

2.13 MSI Settings

（1）Read MSI on and off as below:

On

01151

Off

01150

（2）Check MSI on and off as below:

On

011A1

Off

011A0

（3）Read MSI-Plessy on and off as below:

On

011B1

Off

011B0

（4）MSI check mode

None

011D0

Mode 10 Check

011D1

Mode 11 Check

011D2

Mode 10 then Mode 10 Check

011D3

Mode 11 then Mode 10 Check

011D4

2.14 CODE 11

（1）Read Code 11 on and off as below:

On

01261

Off

01260

（2）Check digit transmission on and off as below:

On

012A1

Off

012A0

（3）Check CODE 11 Mode

None

012B0

C Check

012B1

C、K Check

012B2

2.15 RSS Code

（1）Read Standard RSS code on and off as below:

On

01A91

Off

01A90

（2）Read RSS-limited code on and off as below:

On

01AA1

Off

01AA0

（3）Read RSS-expanded code on and off as below:

On

01AB1

Off

01AB0

3. Advanced Settings

3.1 EAN、UPC Appendix Settings

EAN、UPC supplements could be 2 or 5 digits.

None

00550

2 digits supplement

00551

5 digits supplement

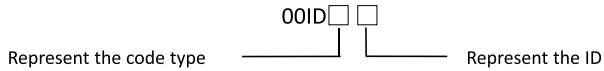
00552

2 or 5 digits supplement

00553

3.2 Code ID Settings

（1）All types of codes could be identified by a letter.



Letter from A to Z, or a to z.

（2）Table 2: Default code type's matching letters

Code Type	Pair	Code Type	Pair	Code Type	Pair
EAN-13	A	Industrial 25	I	CODE-32	Q
EAN-8	B	MSI	J	China Post	R
UPC-E	C	CODE11	K	Standard 25	S
CODE128	D	UPC-A	L	Matrix-25	T
CODE93	E	ISBN	M	Limited RSS	U
CODE39	F	Standard RSS	N	Expanding RSS	V
Code Bar	G	UPC-E1	O		
Interleaved 25	H	Tropic-39	P		

Table 2

3.3 Specific or Global Settings

Edit the bar code before data output like add, delete or insert letters in the front or back of bar code,etc.

Specific Setting: Edit for specific bar codes, details see following table 3.

Code Type	Pair	Code Type	Pair	Code Type	Pair	Code Type	Pair
UPC-A	01	EAN-13	02	EAN-8	03	UPC-E	04
CODE39	05	CODE128	06	CODE93	07	Interleaved 25	08
Matrix25	10	Code Bar	11	CODE11	13		
MSI（including MSI-Plessey）			12				
Other Code 25（Including Industrial, Standard and China Post）					09		
RSS（Including Standard, Expanding and Limited RSS）					14		

Table 3

Global Setting: Setting apply to all code types with 00.

Data output is depended on the setting for specific or global, judgment as below：

If some settings (like adding letter before bar code) is for specific setting, and also for global code types, then the output will follow the specific setting only.

If setting is not for specific code, but for all code types, then the output will follow all global setting. Such as CODE128, if decoding is 1234, detail output as below table 4.

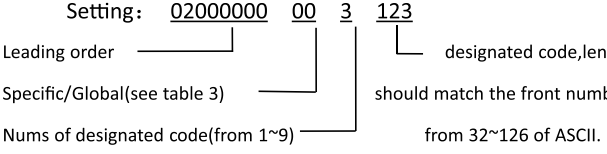
Global	Specific	Output
Add A before Code	No	A1234
Add A before Code	Add B before Code	B1234
No	No	1234
No	Add B before Code	B1234

Table 4

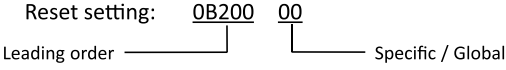
There are 9 kinds of setting here below:

（1）Delete codes before designated letters

For Example: Decoding data is ABC1234DEFG, designated code is 1234，then the letters before the code is deleted, output is 1234DEFG。

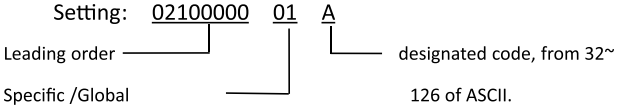


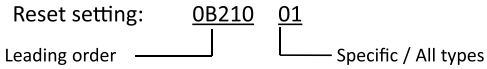
Creating a setting with barcode generator, code type is CODE128, data source is ^302000000003123 .



（2）Delete the same Characters before code

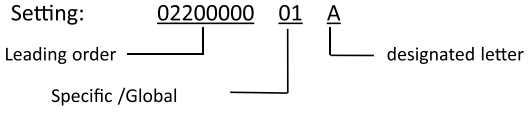
For Example: code is AAA1234，designated letter is A, then output is 1234.

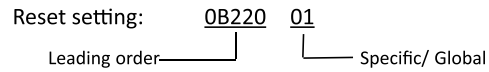




（3）Delete the same letters after the code

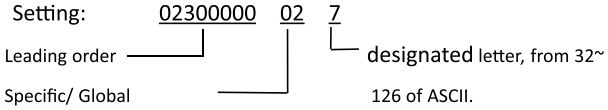
The function is as same as number (2), but delete the letters from the last digit.



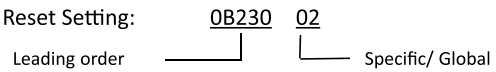


（4）Disable transmit the designated letter

If there is designated letter within the bar code, the letter will be deleted. For example: Decoding data is A12A34AA56789A，designated letter is A, then output is 123456789.



The setting means deleting the letter 7 for code EAN-13.

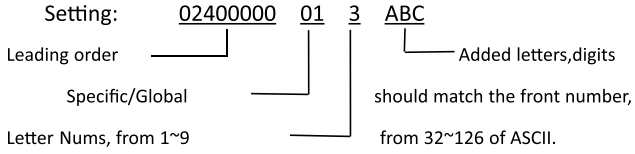


（5）Adding Letters

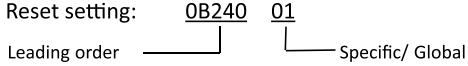
Three parts for adding letters: from the front side, middle side and back side of code.

（a）From the front side: adding letters from the front of bar code.

For example: Code is 1234, added letter is ABC, then output is ABC1234.

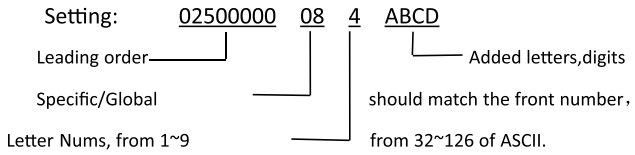


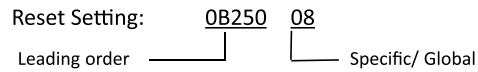
The above setting means adding 3 letters “ABC” in front of code UPC-A.



（b）From the back side of bar code

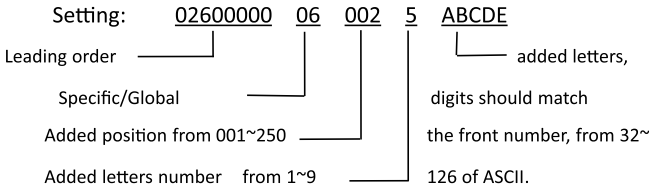
Setting way is similar as the above, but adding letters from the back side.

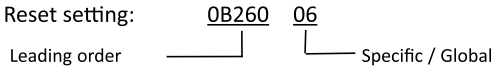




（c）From the middle side of bar code

The setting is to add letter within any position of bar code. For example: code is 1234, added position is 1, added letters are ABC, then output is 1ABC234.



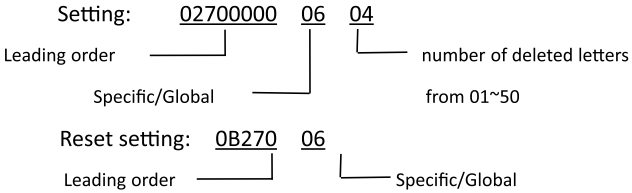


（6）Delete letters

Three parts for deleting letters: from the front side, from the middle side and from the back side of bar code.

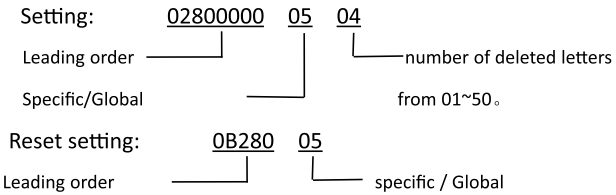
（a）From the front side of bar code

From the front side of bar code, delete the number of letters. For example, code is ABCD1234，want to delete 4 letters, then output is 1234.



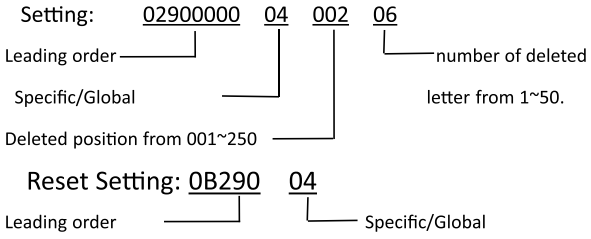
（b）From the back side of bar code

The setting way is same as the above, just delete the letters from the back side of bar code.



（c）From the middle side of bar code

The setting is to delete the letters from the pointed digit. For example: code is 12345ABC，pointed digit is 001，number of deleted letters is 4, then output is 1ABC.

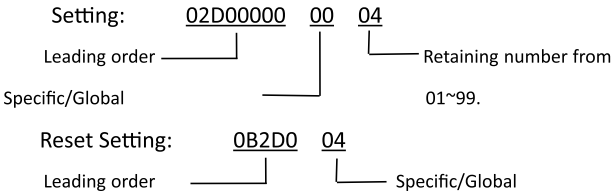


（7）Retain the digits of bar code

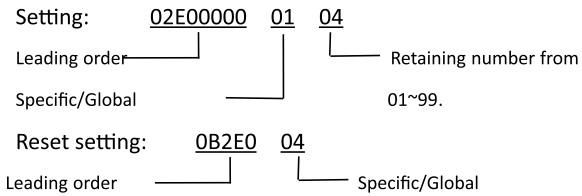
No matter how many digits of the bar code, the setting is to keep part of the digits. Setting is from the front side and from the back side two parts.

（a）Retain N digits from the front side

No matter how many digits of the bar code, retain the first 4 digits once the digits of code is more than 4.

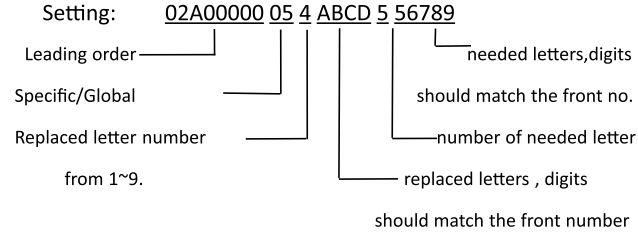


（b）Retain N digits from the back side

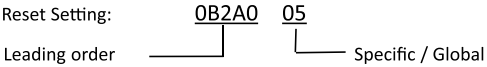


（8）Replacement

The setting is to replace the letters as needed letters. For example: code is 1234ABCD90，to replace ABCD as 5678, then output is 1234567890.



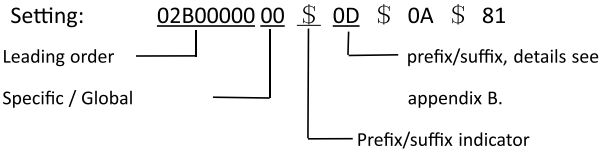
The above setting is to replace ABCD as 56789 of CODE-39.



（9）Add prefix/suffix

Prefix/suffix means those function that will not show as letter like ENTER, TAB, F2, F3,etc. At most enable 3 prefix and suffix , specific letter and corresponding function see below appendix.

（a）Prefix



The above setting is to enable prefix of ENTER, TAB, F2 in order.

Reset Setting: 0B2B0 00

Leading order — Specific / Global

（b）Suffix

Setting: 02C00000 00 $ AB $ 1B $ B3

Leading order — Specific / Global — Prefix/suffix indicator — prefix/suffix, details see appendix B.

The above setting is to enable suffix Ctrl+Esc for all type codes.

Reset setting: 0B2C0 00

Leading order — Specific / Global

Appendix A

NO.	Parameters	Default Values
Speaker Option		
1	Speaker On / Off	Speaker On
2	Speaker Volume	2K
SCANNER Data Transmit Mode		Random
Terminal Data Transmit Mode		USB-HID
Laser Trigger Mode		Button Pressing
Frequency Option		
1	Scanner Frequency	0#, 433.092MHz
2	Terminal Frequency	0#, 433.092MHz
Laser Time on Trigger Mode		3S
Auto-Senor Mode		
1	Auto-Sensor On/Off	Off

2	Auto Sensitive distance	100mm
Setting On / Off		On
Continuous Scan Interval		1S
Code ID on and off Option		
1	Enable ID before Code	Off
2	Enable IF after Code	Off
Terminal Keyboard Languages		USA
Terminal Data transmit speed		No interval
Scanner Address		0#
Data Transmit After Sleep		Close
Time Enter Sleep		30S
Terminal Address Display		Close
Data Clear After Inventory		Close
Chinese Input		Normal
Letter Conversion		None
Picture Mode		Normal
UPC-A		
1	Decode	On
2	Check	On
3	Check Digit Transmission	On
4	Convert UPC-A to EAN-13	Off
5	Read System Character	Enable
EAN-13		
1	Decode	On
2	Check	On
3	Check Digit Transmission	On

4	Convert EAN-13 to ISBN/ISSN	Off
EAN-8		
1	Decode	On
2	Check	On
3	Check Digit Transmission	On
4	Convert EAN-8 to EAN-13	Off
UPC-E0		
1	Decode	On
2	Check	On
3	Check Digit Transmission	On
4	Convert UPC-E0 to EAN-13	Off
5	Convert UPC-E0 to UPC-A	Off
6	Read System Character	Enable
UPC-E1		
1	Decode	On
2	Check	On
3	Check Digit Transmission	On
4	Convert UPC-E1 to EAN-13	Off
5	Convert UPC-E1 to UPC-A	Off
6	Read System Character	Enable
CODE-39		
1	Decode	On
2	Check	Off
3	Check Digit Transmission	Off
4	Read all ASCII Characters	Off
5	Start/End Character Transmission	Off

6	Convert CODE-39 to CODE-32	Off
7	Read Start Character of CODE-32	Off
8	Read Trioptic-39	On
9	Read Start Digit of Trioptic-39	Off
10	CODE-39 Maximum Length	250
11	CODE-39 Minimum Length	1
CODE-128		
1	Decode	On
2	Check	On
3	Check Digit Transmission	On
4	Read UCC_EAN128	On
5	Read ISBT	On
CODE-93		
1	Decode	On
2	Check	On
3	Check Digit Transmission	Off
Interleaved 25		
1	Decode	On
2	Check	Off
3	Check Digit Transmission	On
4	Interleaved 25 Maximum Length	250
5	Interleaved 25 Minimum Length	1
Other Code 25		
1	Read Industrial 25	Off
2	Read China Post Code	Off
3	Read Standard 25	Off

4	Other Code25 Maximum Length	250
5	Other Code25 Minimum Length	1
Matrix 25		
1	Decode	Off
2	Check	On
3	Check Digit Transmission	On
4	Matrix 25 Longest Length	250
5	Matrix 25 Shortest Length	1
Code Bar		
1	Decode	On
2	Check	Off
3	Check Digit Transmission	Off
4	Read Start Character	Off
5	Read Same Start Character	Off
4	Code Bar Longest Length	250
5	Code Bar Shortest Length	1
MSI		
1	Decode	Off
2	Check Digit Transmission	Off
3	MSI Check Mode	MOD 10
4	Read PLESSEY	On
5	MSI Longest Length	250
6	MSI Shortest Length	1
CODE-11		
1	Decode	Off
2	Check Digit Transmission	On

3	CODE-11 Check Mode	None
RSS		
1	Read Standard RSS	On
2	Read Limited RSS	On
3	Read Expanded RSS	On
Data Output Layout		Enable CR Suffix

Appendix B

ASCII	Ctrl Bytes	ASCII	Ctrl Bytes	ASCII	Ctrl Bytes
0x00	Ctrl+2	0x7F	DEL	0x9F	KP 1
0x01	Ctrl+A	0x80	F1	0xA0	KP 2
0x02	Ctrl+B	0x81	F2	0xA1	KP 3
0x03	Ctrl+C	0x82	F3	0xA2	KP 4
0x04	Ctrl+D	0x83	F4	0xA3	KP 5
0x05	Ctrl+E	0x84	F5	0xA4	KP 6
0x06	Ctrl+F	0x85	F6	0xA5	KP 7
0x07	Ctrl+G	0x86	F7	0xA6	KP 8
0x08	BackSpace	0x87	F8	0xA7	KP 9
0x09	TAB	0x88	F9	0xA8	KP 0
0x0A	Ctrl+J	0x89	F10	0xA9	KP .
0x0B	Ctrl+K	0x8A	F11	0xAA	Caps LK
0x0C	Ctrl+L	0x8B	F12	0xAB	Left Ctrl Make

0x0D	Enter	0x8C	Print Screen	0xAC	Left Shift Make
0x0E	Ctrl+N	0x8D	Scroll Lock	0xAD	Left Alt Make
0x0F	Ctrl+O	0x8E	Break Pause	0xAE	Left GUI
0x10	Ctrl+P	0x8F	Insert	0xAF	Right Ctrl Make

ASCII	Ctrl Bytes	ASCII	Ctrl Bytes	ASCII	Ctrl Bytes
0x11	Ctrl+Q	0x90	Home	0xB0	Right Shift Make
0x12	Ctrl+R	0x91	Page Up	0xB1	Right Alt Make
0x13	Ctrl+S	0x92	Delete	0xB2	Right GUI
0x14	Ctrl+T	0x93	End	0xB3	Left Ctrl Break
0x15	Ctrl+U	0x94	Page Down	0xB4	Left Shift Break
0x16	Ctrl+V	0x95	Right Arrow	0xB5	Left Alt Break
0x17	Ctrl+W	0x96	Left Arrow	0xB6	Right Ctrl Break
0x18	Ctrl+X	0x97	Down Arrow	0xB7	Right Shift

					Break
0x19	Ctrl+Y	0x98	Up Arrow	0xB8	Right Alt Break
0x1A	Ctrl+Z	0x99	Num Lock		
0x1B	ESC	0x9A	KP /		
0x1C	Ctrl+/	0x9B	KP *		
0x1D	Ctrl+]	0x9C	KP -		
0x1E	Ctrl+6	0x9D	KP +		
0x1F	Ctrl+-	0x9E	KP Enter		

Warranty Card

Dear customer:thank you for purchasing our product,please take care of this card, and please show this card when you need our maintenance.

User Name:		Tel		Fax	
Model No.		Series No.			
Buy date	Y M D（Are subject to the formal receipt）				

Maintainance principles:

a. During warranty period,we offer free maintenance if the problem is covered by our warranty.

b. If the problem is out of ourwarranty scope or if the item is beyond the warranty period. We will charge the maintainance fee and relevant expense of part replancement.

c. Users are not responsible for the product problem caused directly or indirectly by us or distributors.

d. The warranty of scanner is one year, which is not including the cable.

The terms out of warranty liability are listed as following:

a. Problem or damage caused by uer's improper operation.

b. Damage caused by any operation in improper environment.

c. Damage caused by force majeure(include but not limited to earthquake, water flood, fire and so on).

d. Remove the protective housing by unauthorized person.

e. Damage caused by delivery that the item was sent back to us.

Distributor fill in/stamp		
	Distributor	
	Address	
	Tel	
	Fax	
	QQ No	
	Email	
	Web	
	Handled by	
	date	Y M D /stamp