

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 read the bar code, and upload the data to the terminal software.

Features:

- Transmission up to 800m in open space.

- 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, none lost mode and inventory mode.

- Support resume batch report in sleeping mode.

- Store up to 2000 bar codes.

Indicator:

This product has more kinds of indicator for beep and LED, we describe by scanner and receiver as blow:

Scanner:

If the battery is too low to start, you will see the LED flashing red and blue in interval seconds after trigger the button, in 5 seconds off to be sleep.

After trigger the button, indicated with two beep, LED turns to be blue. If the current voltage is undervoltage detection, LED will be turn to be red alarm.

Scanner will send the synchronizing signal to the terminal, it will be succeed with a "beep", and LED will be flashing with red and blue if synchronized unsuccessfully in 6 seconds.

Scan and upload data success with two different beep, the first beep means decoding success, the last beep means data upload success. If data could not be upload, replace the beep with alarm.

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

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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

After scanning 0A success,the scanner version will be showed on the terminal; after 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

After scanning 0E, scanner will enter the sleep mode no matter how the 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 3 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.

-None lost mode can make sure the data uploaded to the terminal, if uploading fail, data will be stored until upload success which make sure the data is not lost.

-Inventory mode, the user to scan 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



None Lost Mode



Inventory Mode



Receiver has 2 wireless data transmission mode:

USB-KBW



USB-VCOM



1.5 Fast Pairing

Pairing means the scanner matches to the receiver to avoid system working confusion. Scanner read the pairing 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 will broadcast to other terminal.

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

Fast Pairing



Cancel Pairing



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 for terminal.

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



Scanner Channel 20



Terminal Channel 7



Scanner Channel 7



Terminal Channel 0



Terminal Channel 20



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



Uploading the Inventory Data



(3) Inventory auto clear on and off

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

Auto Clear



No Auto Clear



1.8 Memory Options

(1) Allow uploading data after sleeping

The function can use in none lost mode and inventory mode only.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



Clear after Sleeping



(2) Clear Memory

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

Clear Memory



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 will 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 Address 2#



037002

Scanner Physical Address10#



037010

Scanner Physical Address 254#



035254

(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



Off



(2) Auto Sensitivity Adjustment

Increase



Decrease



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



Off



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 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



Disable Suffix ID



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. 22 Letters Conversion

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

No Conversion



All Capital Letters



All Small Letters



Case Conversion



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



Off



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



Inverse



2. Different Type of Bar Code Settings

2.1 UPC-A

(1) Read UPC-A on and off as below:



(2) Check UPC-A on and off as below:



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



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



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



2.2 EAN-13

(1) Read EAN-13 on and off as below:

On



Off



(2) Check EAN-13 on and off as below:

On



Off



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

On



Off



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

On



Off



2.3 EAN-8

(1) Read EAN-8 on and off as below:

On



Off



(2) Check EAN-8 on and off as below:

On



Off



(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

Off



00381



00380

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

On

Off



004G1



004G0

2.5 UPC-E1

(1) Read UPC-E1 on and off as below:

On

Off



005A1



005A0

(2) Check UPC-E1 on and off as below:

On

Off



005B1



005B0

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

On

Off



005C1



005C0

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

On

Off



005D1



005D0

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

On



005F1

Off



005F0

(6) UPC - E01system 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:



(2) Check code-93 on and off as below:



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



2.9 Interleaved 25

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



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



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

On



Off



(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



249 Codes



(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



9 Code



2.10 Other 25 Code Settings

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

On



Off



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

On



Off



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

On



Off



(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



249 Codes



(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



9 Codes



2.11 Matrix 25

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

On



Off



(2) Check Matrix25 on and off as below:

On



Off



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

On



Off



(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



249 Codes



(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



9 Codes



2.12 Code Bar Settings

(1) Read code bar on and off as below:

On



Off



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

On



Off



(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:



3. Advanced Settings

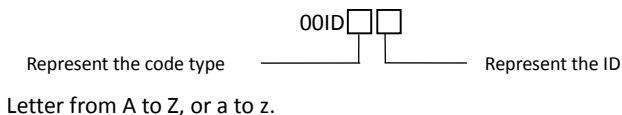
3.1 EAN、UPC Appendix Settings

EAN、UPC supplements could be 2 or 5 digits.



3.2 Code ID Settings

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



(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。

Setting: 02000000 00 3 123
 Leading order —————
 Specific/Global(see table 3) —————
 Nums of designated code(from 1~9) —————
 designated code,length should match the front number, from 32~126 of ASCII.

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

Reset setting: 0B200 00
 Leading order ——— Specific / Global

(2) Delete the same Characters before code

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

Setting: 02100000 01 A
 Leading order ——— designated code, from 32~
 Specific / Global ——— 126 of ASCII.

Reset setting: 0B210 01
 Leading order ——— Specific / All types

(3) Delete the same letters after the code

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

Setting: 02200000 01 A
 Leading order ——— designated letter
 Specific / Global ———

Reset setting: 0B220 01
 Leading order ——— Specific / Global

(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.

Setting: 02300000 02 7
 Leading order ——— designated letter, from 32~
 Specific / Global ——— 126 of ASCII.

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

Reset Setting: 0B230 02

Leading order _____ _____ Specific/ Global

(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.

Setting:

	<u>02400000</u>	01	3	<u>ABC</u>
Leading order	_____└───┐ Specific/Global _____┘			Added letters,digits
Letter Num.s. from 1~9				should match the front number, from 32~126 of ASCII.

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

Reset setting: 0B240 01
 Leading order _____ Specific/ Global _____

(b) From the back side of bar code

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

Setting: 02500000 08 4 ABCD

Leading order ————— | | | | Added letters,digits

Specific/Global | | | | should match the front number,

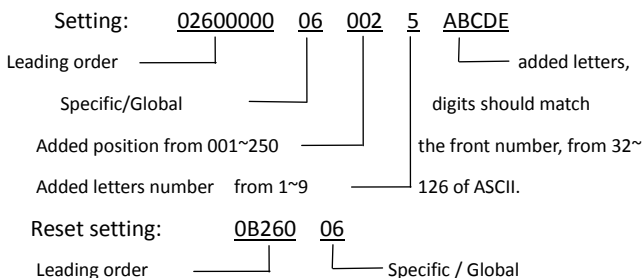
Letter Numbs. from 1~9 | | | | from 32~126 of ASCII.

Reset Setting: 0B250 08
 Leading order _____ _____ Specific/ Global

(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.

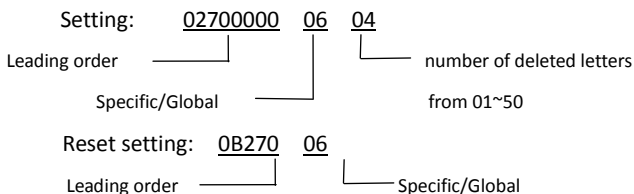


(6) Delete letters

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

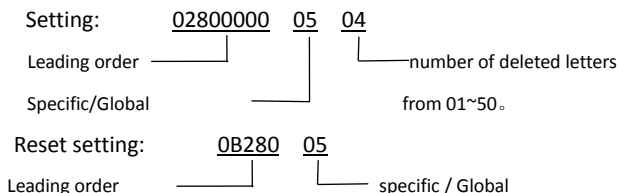
(a) From the front side of bar code

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.



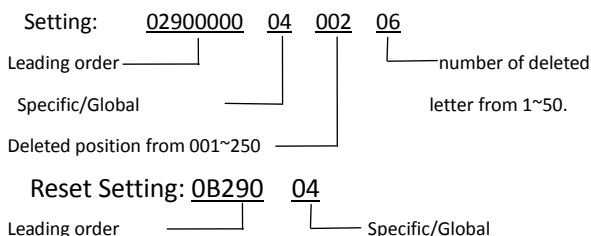
(b) From the back side of bar code

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.

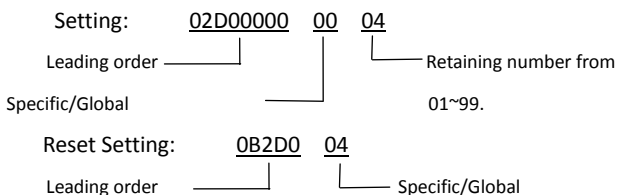


(7) Retain the digits of bar code

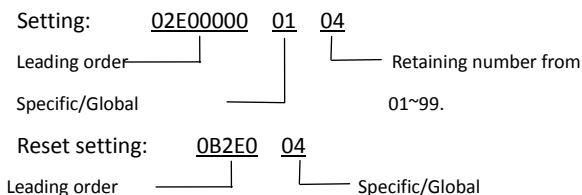
No matter how many digits of the bar code, the setting is to keep part of the digits. Setting is from the front side and from the back side two parts.

(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.

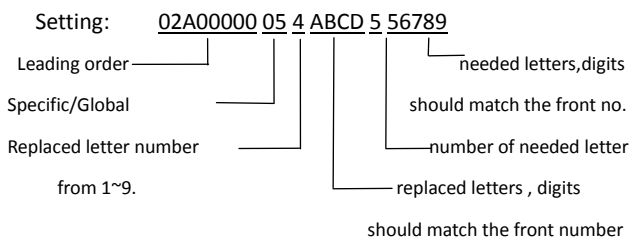


(b) Retain N digits from the back side

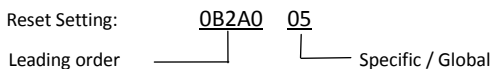


(8) Replacement

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

Setting:

	<u>02B00000</u>	<u>00</u>	\$	<u>0D</u>	\$	0A	\$	81
Leading order				prefix/suffix, details see appendix B.				
Specific / Global				Prefix/suffix indicator				

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 ————— prefix/suffix, details see

Specific / Global ————— appendix B.

————— Prefix/suffix indicator

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	On
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
4	MSI Longest Length	250
5	MSI Shortest Length	1
RSS		
1	Read Standard RSS	Off
2	Read Limited RSS	Off
3	Read Expanded RSS	Off
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		