

433M
2.4G

W	B	S
I	A	C
R	R	A
E	C	N
L	O	N
E	D	E
S	E	R
S		

User Manual

32B

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:

-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 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 green in interval seconds when trigger the button, in 5 seconds off to be sleep.

After trigger the button, indicated with two beep, LED turns to green. If the current voltage is under voltage detection, LED will be turn to 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 green 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 perform 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:



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 it will broadcast to other terminal.

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



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



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.



(3) Inventory auto clear on and off

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



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 Address 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



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.



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.



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.



1. 18 Code ID Identification Option

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



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



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.



1. 21 Letters Conversion

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





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.



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.



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:



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



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



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



2.3 EAN-8

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



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



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



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



2.4 UPC-E0

(1) Read UPC-E0 on and off as below:



(2) Check UPC-E0 on and off as below:



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



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



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



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



2.5 UPC-E1

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



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



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



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



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



- (6) UPC - E1 system character transmission on and off.



2.6 CODE39

- (1) Read Code39 on and off as below:



- (2) Check Code39 on and off as below:



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



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



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



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



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



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



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



(10) CODE39 Maximum Length

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



(11) CODE39 Minimum Length

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



2.7 CODE128 Setting

(1) Read Code 128 on and off as below:



(2) Check code128 on and off as below:



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



(4) Read UCCEAN128 on and off as below:



(5) Read ISBT-128 on and off as below:



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:



(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:



(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:



2.10 Other 25 Code Settings

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



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



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



(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:



(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:



2.11 Matrix 25

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



(2) Check Matrix25 on and off as below:



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



(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:



(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:



2.12 Code Bar Settings

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



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



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



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



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



(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:



(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:



2.13 MSI Settings

(1) Read MSI on and off as below:



(2) Check MSI on and off as below:



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



(4) MSI check mode



2.14 CODE 11

(1) Read Code 11 on and off as below:



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



(3) Check CODE 11 Mode



2.15 RSS Code

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



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



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



3. Advanced Settings

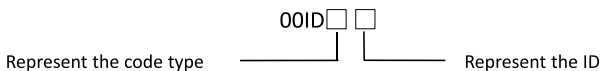
3.1 EAN、UPC Appendix Settings

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.



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。

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~
 _____ 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.

Reset setting: 0B260 06
 Leading order _____ Specific / Global

(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.

Setting: 02700000 06 04
 Leading order _____ number of deleted letters
 Specific/Global _____ from 01~50

Reset setting: 0B270 06
 Leading order _____ Specific/Global

(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.

Setting: 02800000 05 04
 Leading order _____ number of deleted letters
 Specific/Global _____ from 01~50.

Reset setting: 0B280 05
 Leading order _____ specific / Global

(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.

Setting: 02900000 04 002 06

Leading order ————

Specific/Global ————

Deleted position from 001~250 ————

number of deleted letter from 1~50.

Reset Setting: 0B290 04

Leading order ————

Specific/Global ————

(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.

Setting: 02D00000 00 04

Leading order ————

Specific/Global ————

Retaining number from 01~99.

Reset Setting: 0B2D0 04

Leading order ————

Specific/Global ————

(b) Retain N digits from the back side

Setting: 02E00000 01 04

Leading order ————

Specific/Global ————

Retaining number from 01~99.

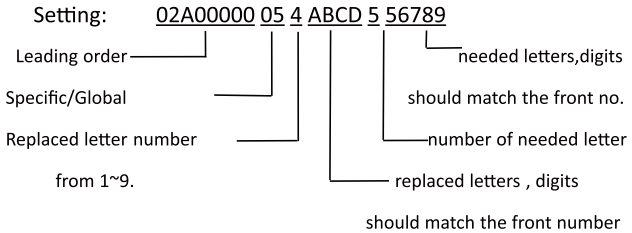
Reset setting: 0B2E0 04

Leading order ————

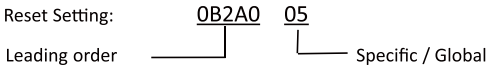
Specific/Global ————

(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.



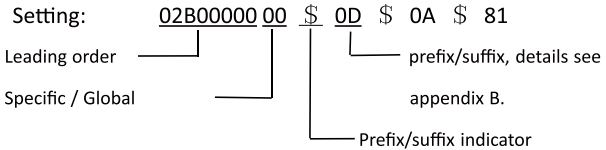
The above setting is to replace ABCD as 56789 of CODE-39.



(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 _____ 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	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)		
<p>Maintainance principles:</p> <p>a. During warranty period,we offer free maintenance if the problem is covered by our warranty.</p> <p>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 replacment.</p> <p>c. Users are not responsible for the product problem caused directly or indirectly by us or distributors.</p> <p>d. The warranty of scanner is one year, which is not including the cable.</p>					
<p>The terms out of warranty liability are listed as following:</p> <p>a. Problem or damage caused by uer's improper operation.</p> <p>b. Damage caused by any operation in improper environment.</p> <p>c. Damage caused by force majeure(include but not limited to earthquake, water flood, fire and so on).</p> <p>d. Remove the protective housing by unauthorized person.</p> <p>e. Damage caused by delivery that the item was sent back to us.</p>					

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

