

Modify the record

V2.8	<ul style="list-style-type: none"> 1. Add to close 1D; close QR code; close all barcode settings
V2.7	<ul style="list-style-type: none"> 1. Support for the following Code Page digit-encoded keyboard output GB2312 <ul style="list-style-type: none"> Korean West European Latin Central and East European Latin; Cyrillic Hebrew Thailand Turkish Greek 2. New Code 32 starting element A transfer on and off, off by default
V2.6	<ul style="list-style-type: none"> 1. Update ASCII Code table element 0~31 2. Add function keys Ctrl ; Alt key setting
V2.5	<ul style="list-style-type: none"> 1. Add serial port setting 2. data bit transmission 3. Parity transfer digit 4. Suffix bit
V2.4	<ul style="list-style-type: none"> 1. Modify the same barcode read mode setting 2. Not repeat reading <ul style="list-style-type: none"> Interval read Not read the same barcode 3. Modify the decoding time setting
V2.3	<ul style="list-style-type: none"> 1. Add the same barcode reading mode setting
V2.2	<ul style="list-style-type: none"> 1. Add new Bulgaria,keyboard; UTF8 QR keyboard output setting
V2.1	<ul style="list-style-type: none"> 1. Add new Brazil; Germany; Italy; Spain; Portugal, UTF8 QR keyboard output setting
V2.0	<ul style="list-style-type: none"> 1. Add new Russian keyboard; Arabic keyboard setting 2. Add new letter case conversion 3. Add new GS element conversion setting

V1.9	<ul style="list-style-type: none"> 1. Fix Code 11 decoding length setting label 2. Fix a hibernation time instruction set error parameter
V1.8	<ul style="list-style-type: none"> 1. Fix GS1 DataBar Expanded Stacked setting code
V1.7	<ul style="list-style-type: none"> 1. Add new Brazilian keyboard setting 2. Add new UPC A / UPC E / EAN 8 / EAN 13,2 / 5-bit additional code setting 3. Add the following language family UTF8 QR direct output 4. Thailand; Russia; Turkey; Germany 5. Add feature key table
V1.6	<ul style="list-style-type: none"> 1. Add new customized Setting 2. Add the same code read interval setting <ul style="list-style-type: none"> a. 3 second b. 4 second c. 5 second d. Not read the same code 3. Add new Control Characters Mapping setting 4. Modify ASCII table content
V1.5	<ul style="list-style-type: none"> 1. Add new the same code read interval setting 2. Add new automatic sensing sensitivity setting 3. Add new decoding data check setting 4. Add new supplementary light operating mode setting 5. Add new supplementary light intensity setting 6. Add new GS1 DataBar 14 ; AI (01) symbol setting 7. Add new GS1 DataBar Expanded ; AI (01) symbol setting 8. Add new GS1 DataBar Limited ; AI (01) symbol setting 9. Add new output format specification 10. Add new barcode message setting

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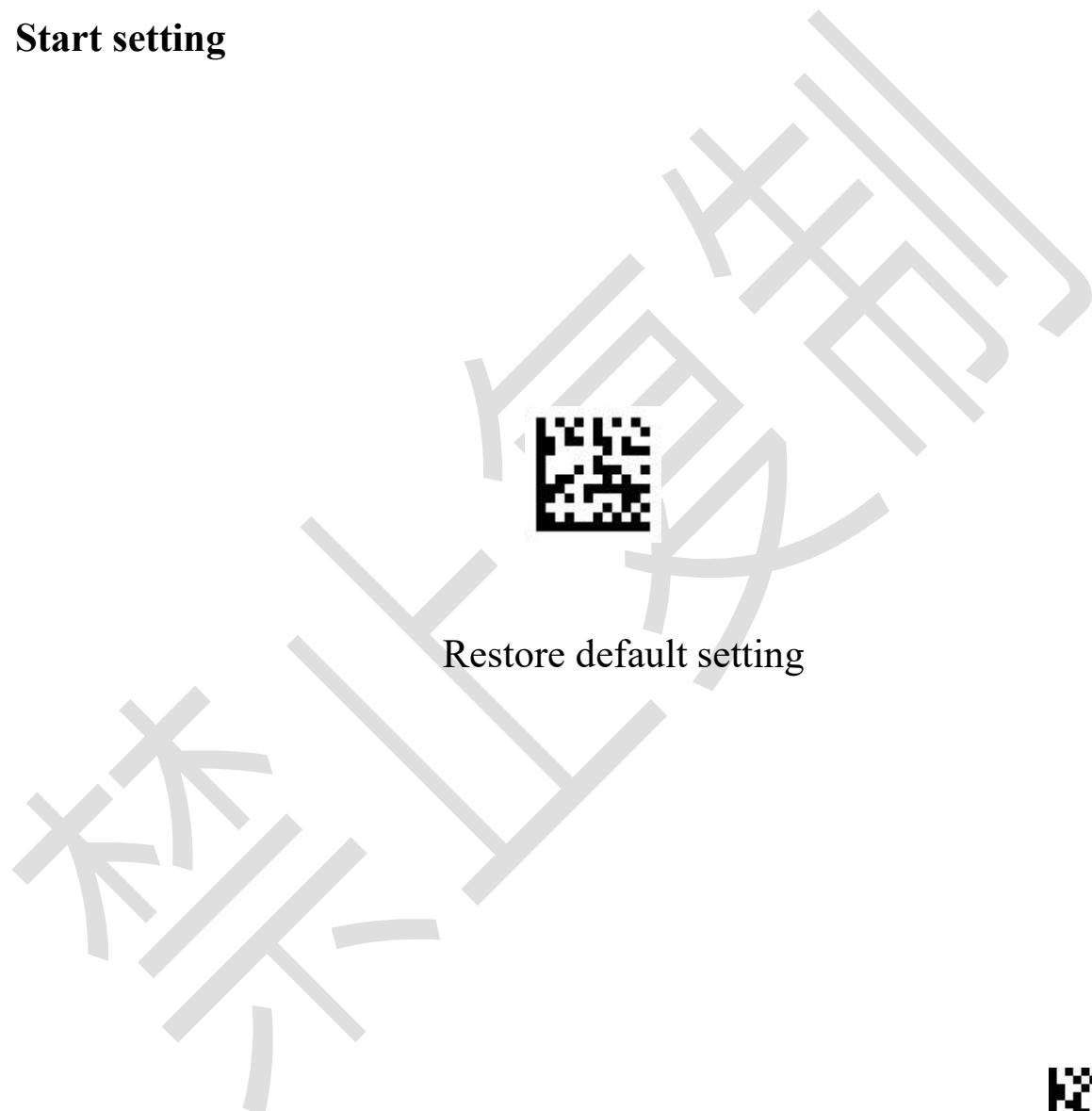
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Restore default setting

Restvert all attributes of the scanner to factory state.



Start setting



End Setting

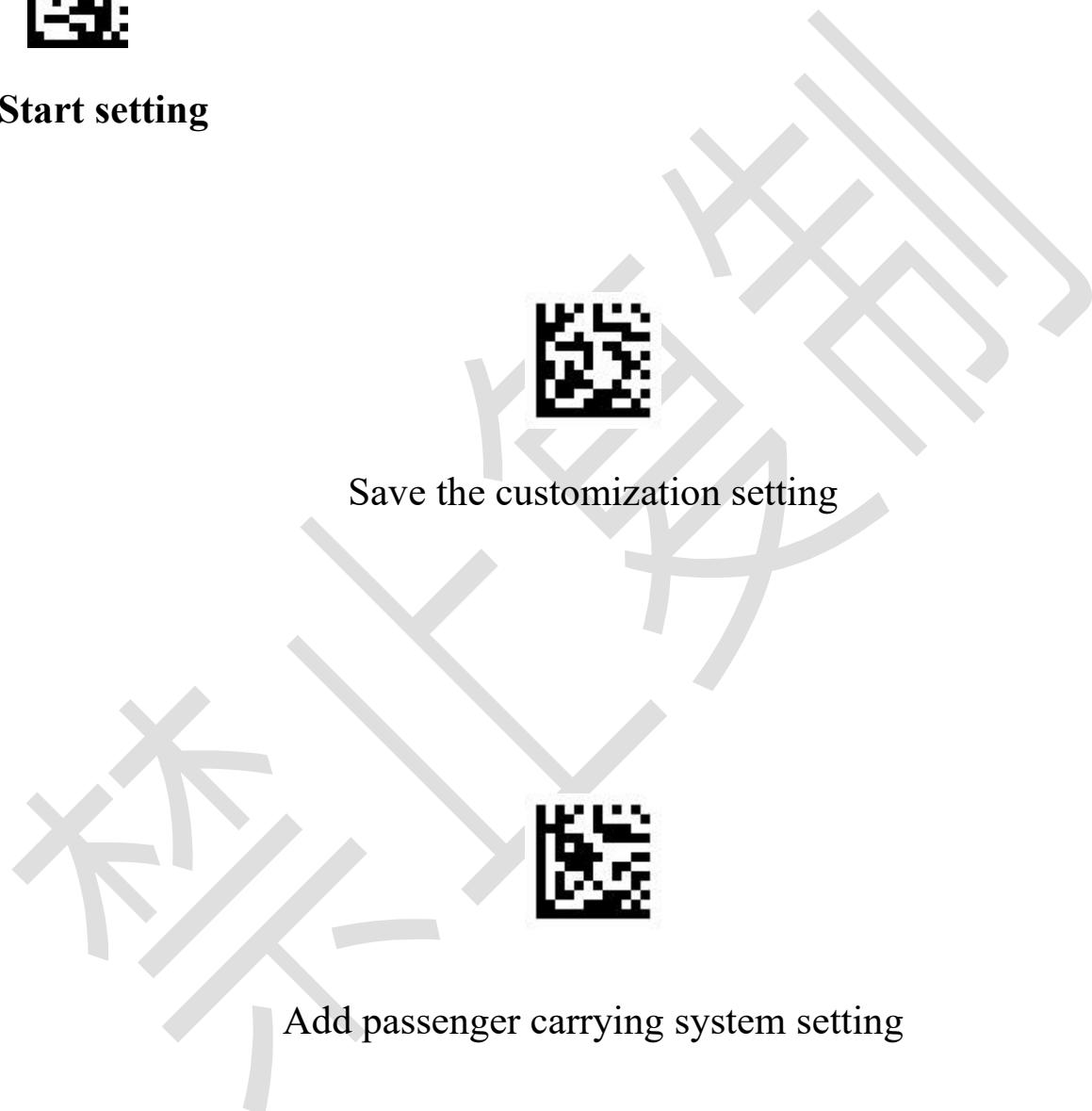
Guest setting

Save the custom setting: Save the frequently used setting.

Add passenger customization setting: set the saved guest customization setting.



Start setting



End setting

Scan setting

level trigger:

End the scan when the decoding is completed or when the read time is exceeded.

Auto-trigger :

The scan begins when the image changes and ends when the reading time is exceeded

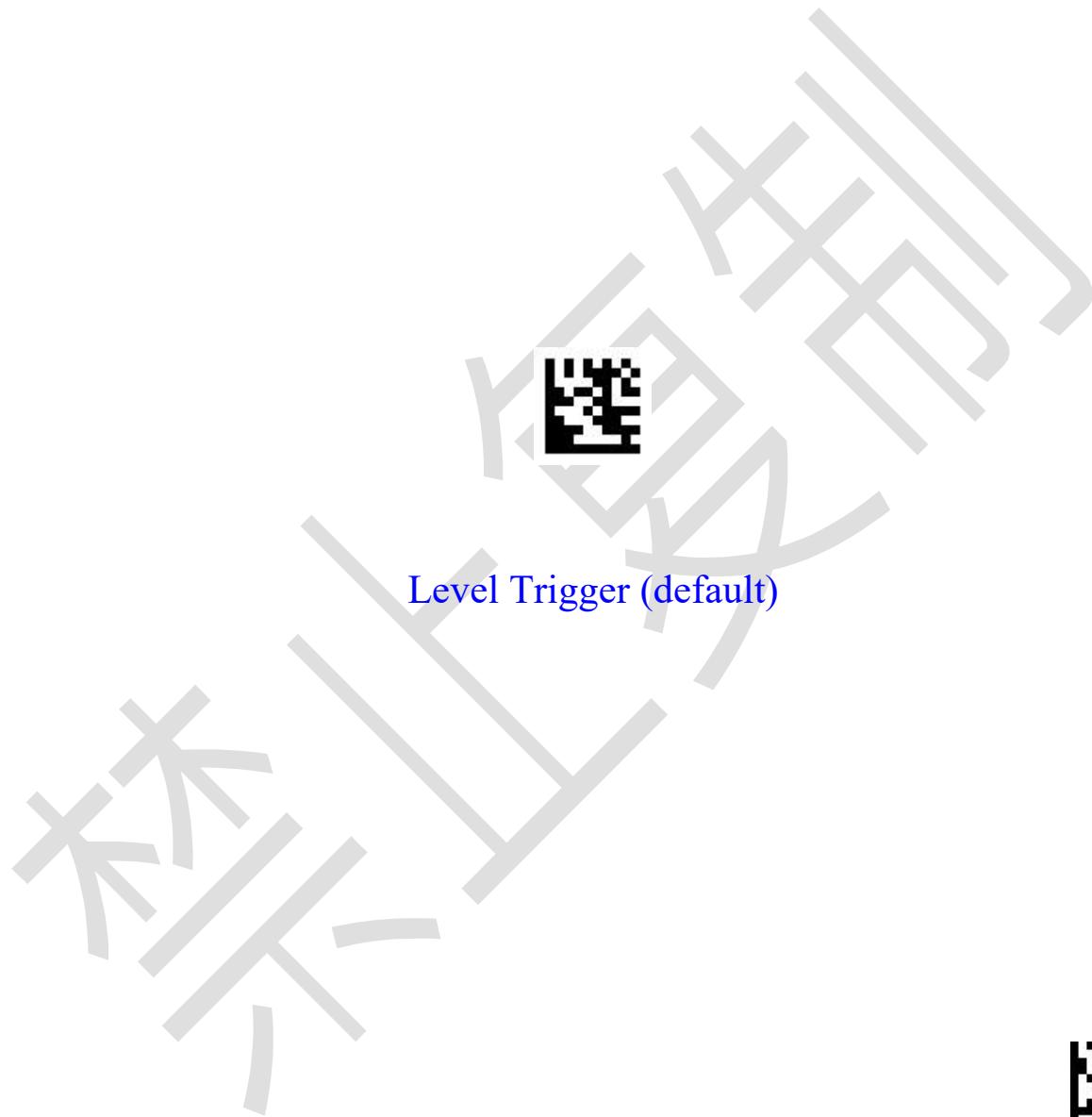
continuous scanning:

Read a single or more barcodes continuously (through the same code reading interval setting, define the decoding sequence), press and release the scan key, and start or end the scan.

Level triggered



Start setting



End Setting

Auto-trigger



Start setting



End Setting

Continuous scanning



Start setting



End Setting

same barcode read

Same barcode reading mode in automatic sensing and continuous scanning mode

The same barcode within 500 ms reads is not overridden by default, which can be set from 0 to 5000 ms, and 0 indicates no interval time

Not repeat reading

If the same barcode is read continuously within the setting time, the barcode will ignore no output and avoid reading the same code repeatedly.

The same barcode with repeated reads within 100 ms is not output

Scan "start setting"

Scan "limit read " setting code

Scan "read Time"setting code

Scan appendix decimal digit, "1"

Set code

Scan appendix decimal digit, "0"

Set code

Scan appendix decimal digit, "0"

Set code

Scan "end setting"

Interval read

Output the same barcode after setting the time.

The same code was read after a one-second interval

Scan "Start setting"

Scan "Interval read" setting code

Scan "Read Time" setting code

Scan Appendix decimal digit, "1"

Set code

Scan Appendix decimal digit, "0"

Set code

Scan Appendix decimal digit, "0"

Set code

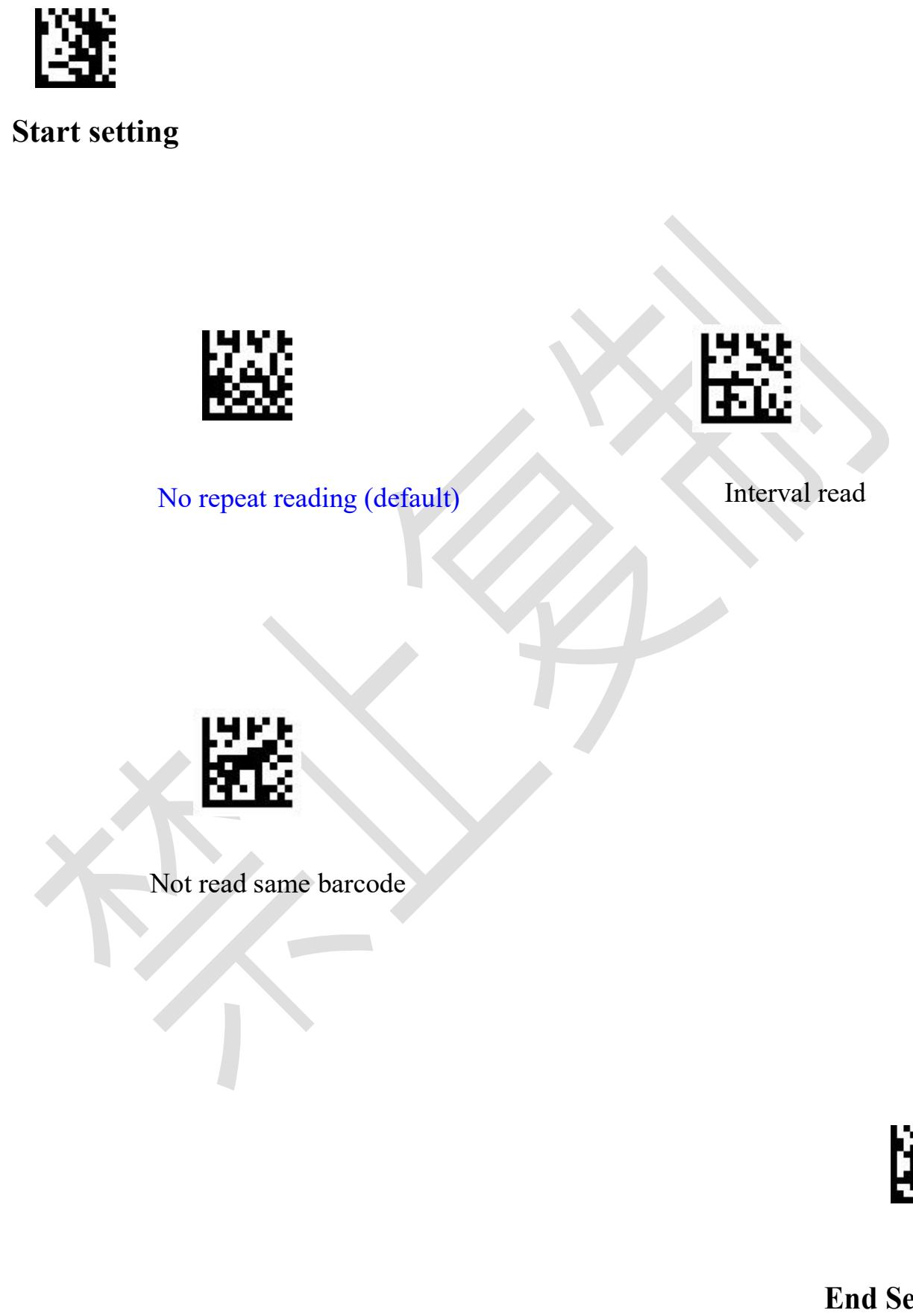
Scan Appendix decimal digit, "0"

Set code

Scan "End Setting"

- Not read same barcode
Not read same barcode

Same barcode read mode



Same barcode read time



Decoding time

The read time is triggered in key mode and automatic trigger mode. If the barcode is not read after exceeding the time, the decoding is turned off into the standby state. The default 5,000 ms can set 0 to 3600,000 ms, and 0 indicates continuous decoding until the read

Set the maximum read time to take for 8 seconds

Scan "Start setting"

Scan "Decoding time" setting code

Scan Appendix decimal digit, "8"

Scan Appendix decimal digit, "0"

Scan Appendix decimal digit, "0"

Scan Appendix decimal digit, "0"

Scan "End Setting"



Start setting



Decoding time (in millisecond)

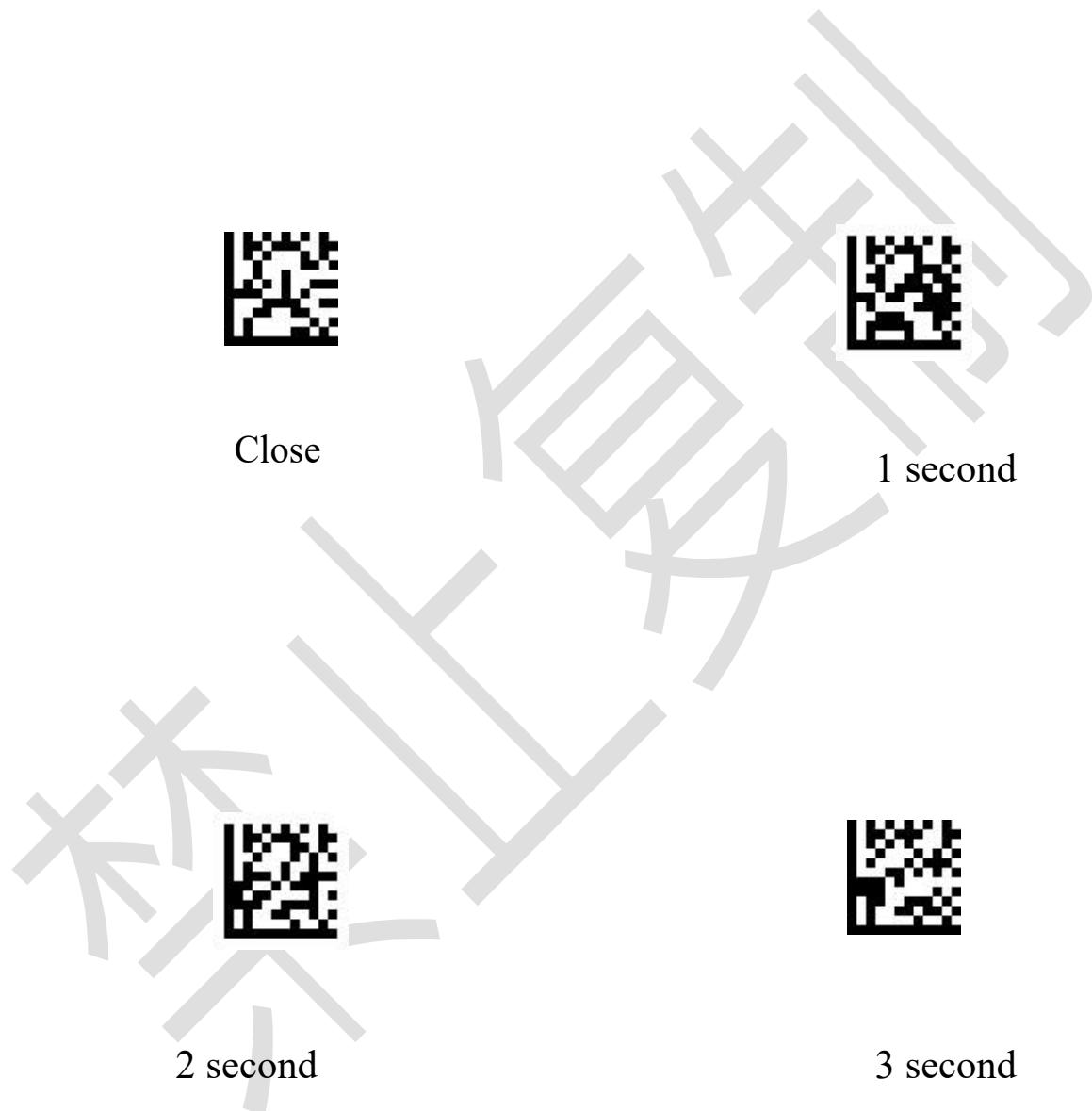


End Setting

Sleep time



Start setting



End Setting

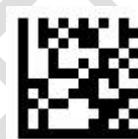
Sleep time



Start setting



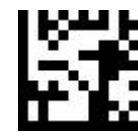
5 second



7 second



10 second (default)



15 second

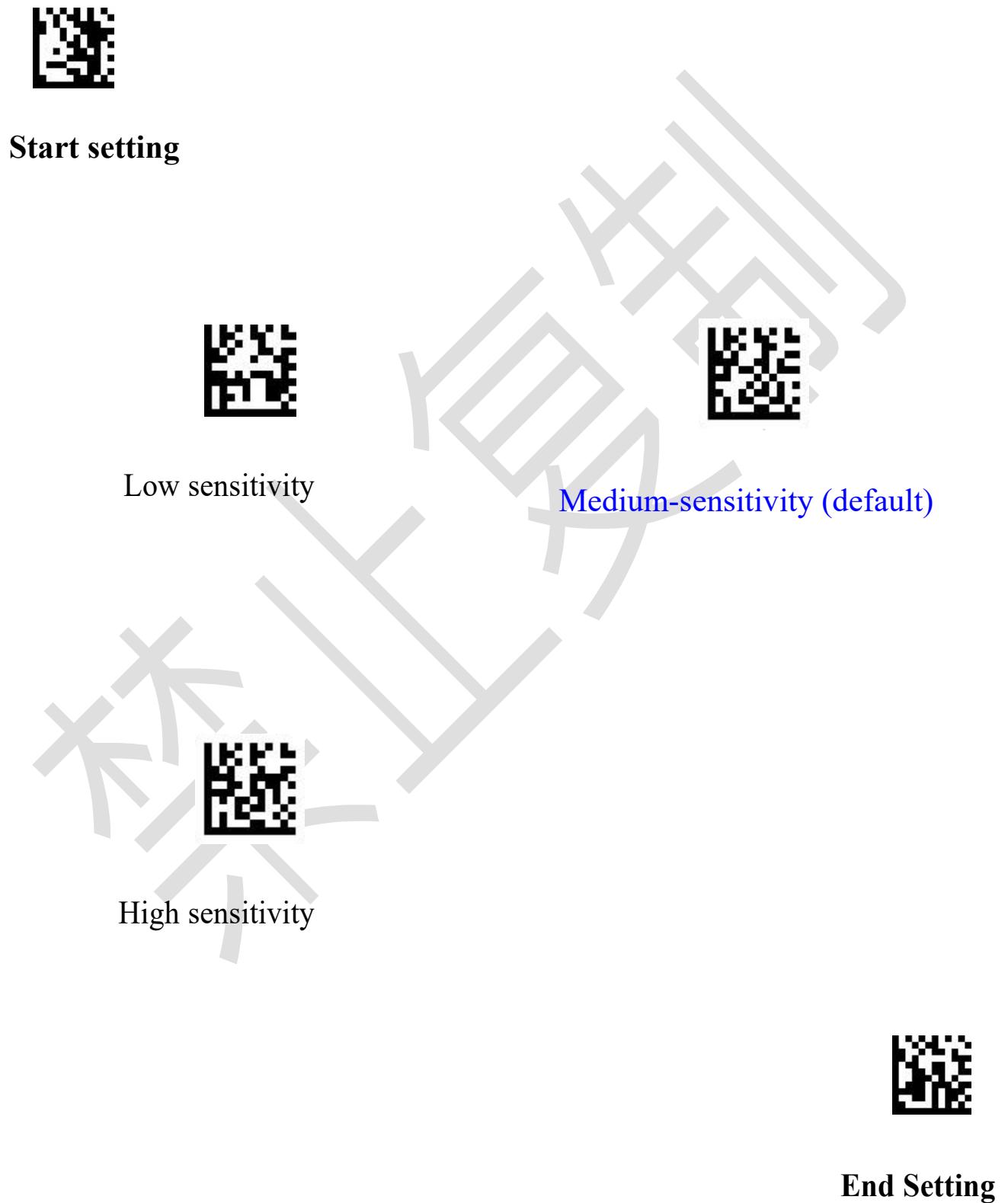


End Setting

Trigger mode sensitivity

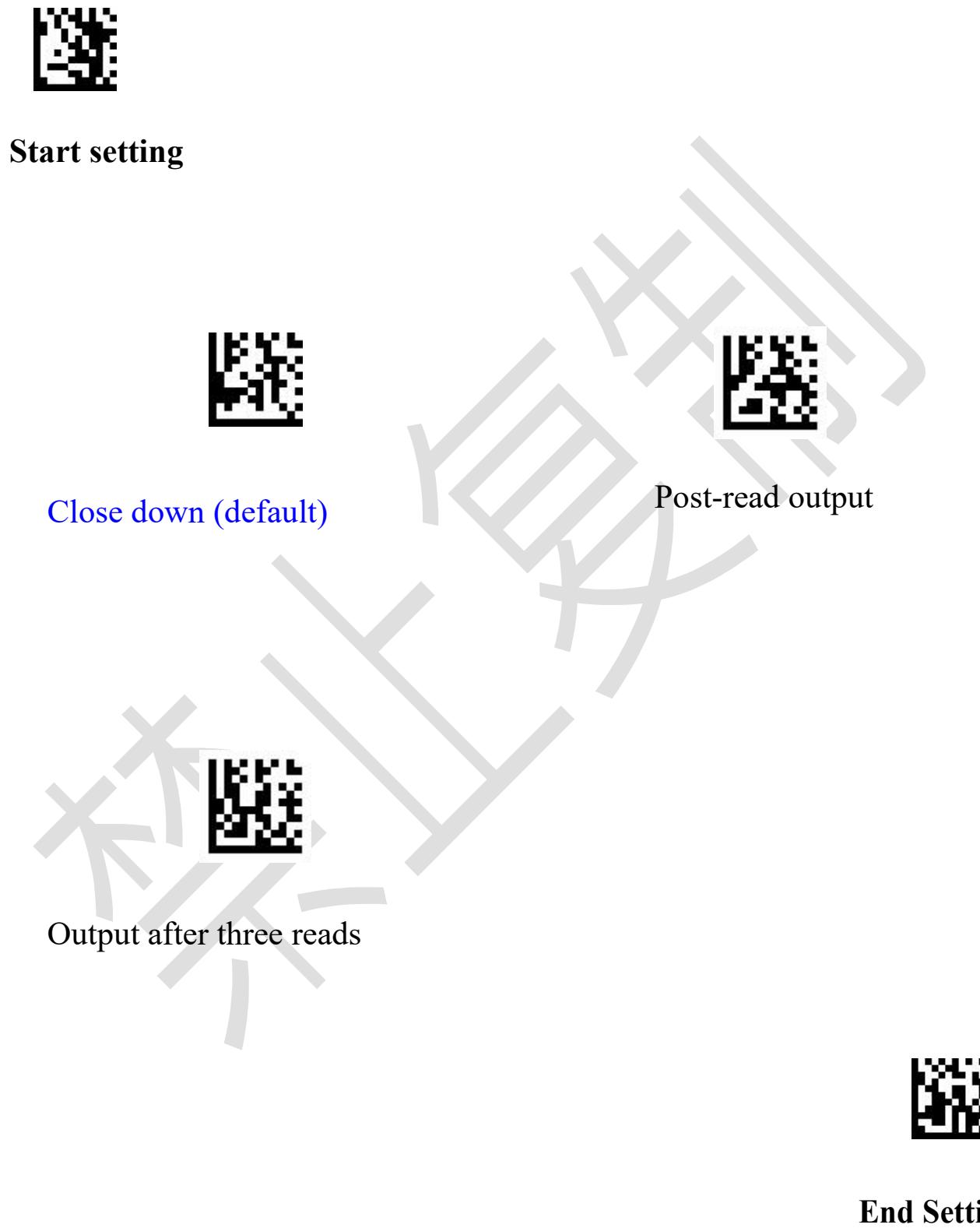
The degree which the trigger mode responds to the scanned image changes.
This setting is only effective the trigger mode of read mode.

the model



Decode data check

Verify whether the reading bar code content is correct, the more inspection times, the slower the scanning speed

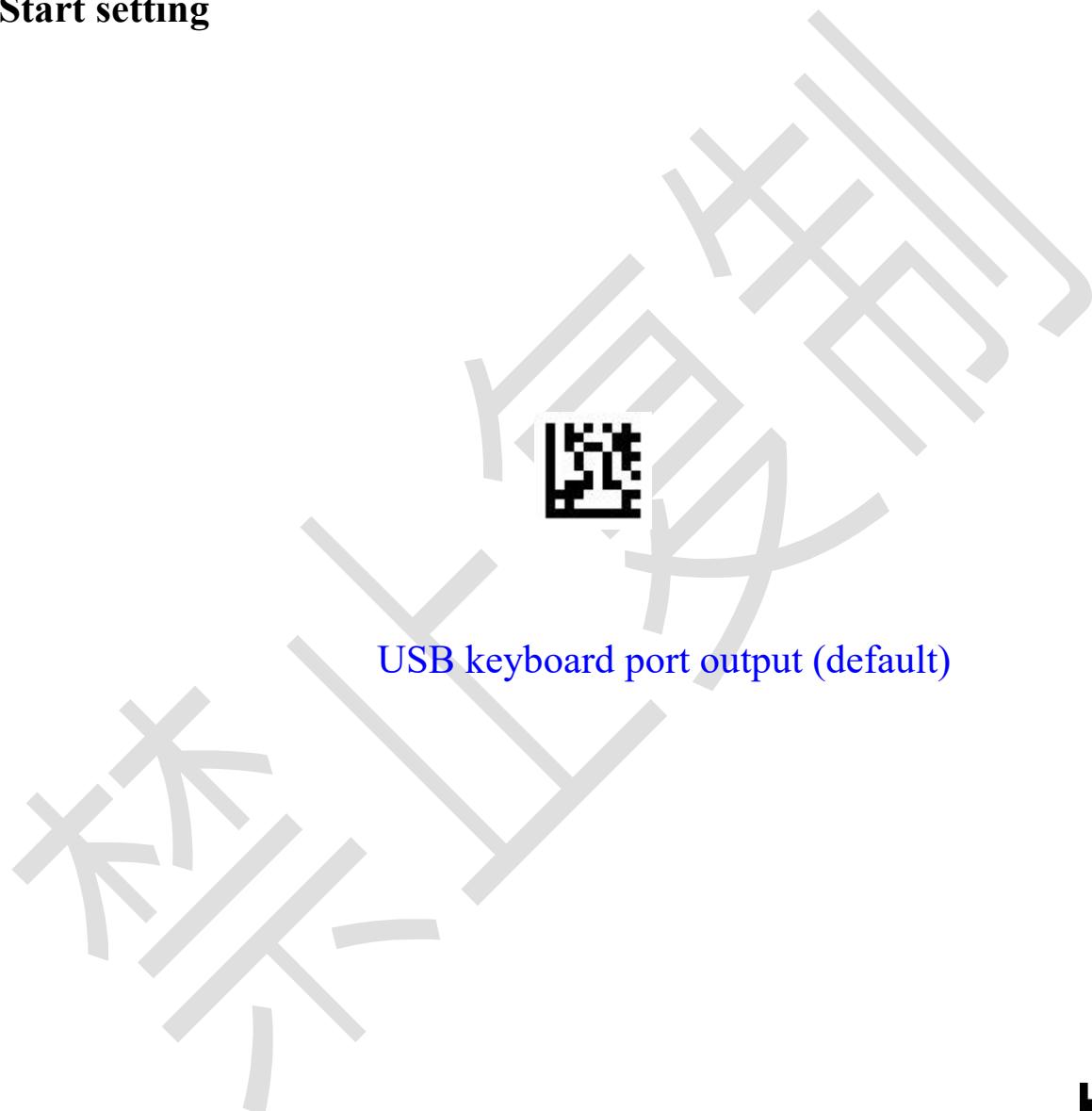


Output Setting

USB Keypad mouth



Start setting



End Setting

USB Virtual serial port



Start setting



End Setting

Serial port

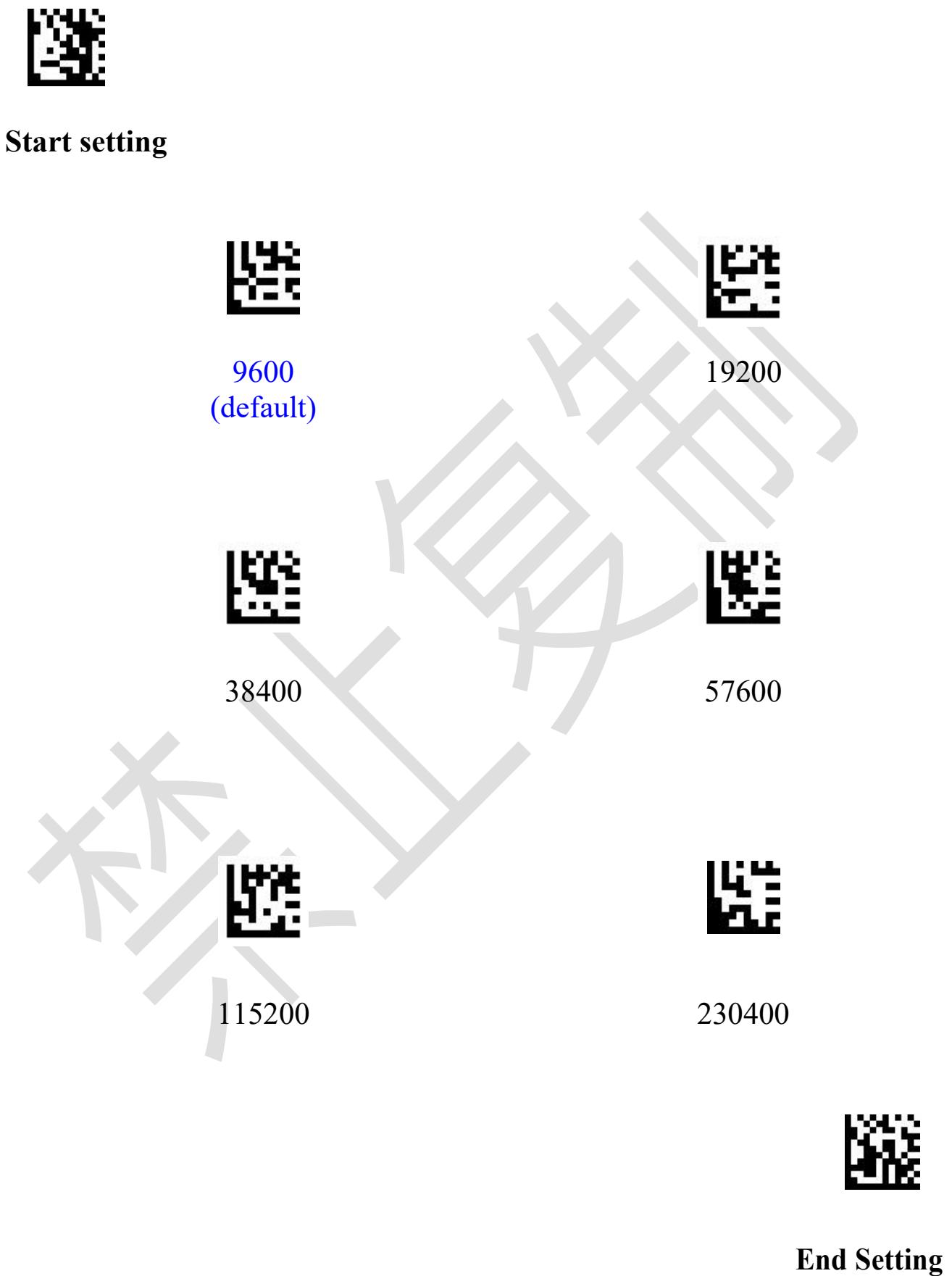


Start setting



End Setting

Serial port port rate



Serial port data bit transmission



Start setting

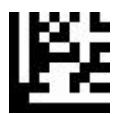


End Setting

Serial parity check digit



Start setting



No check, (default)



Odd check



Even check

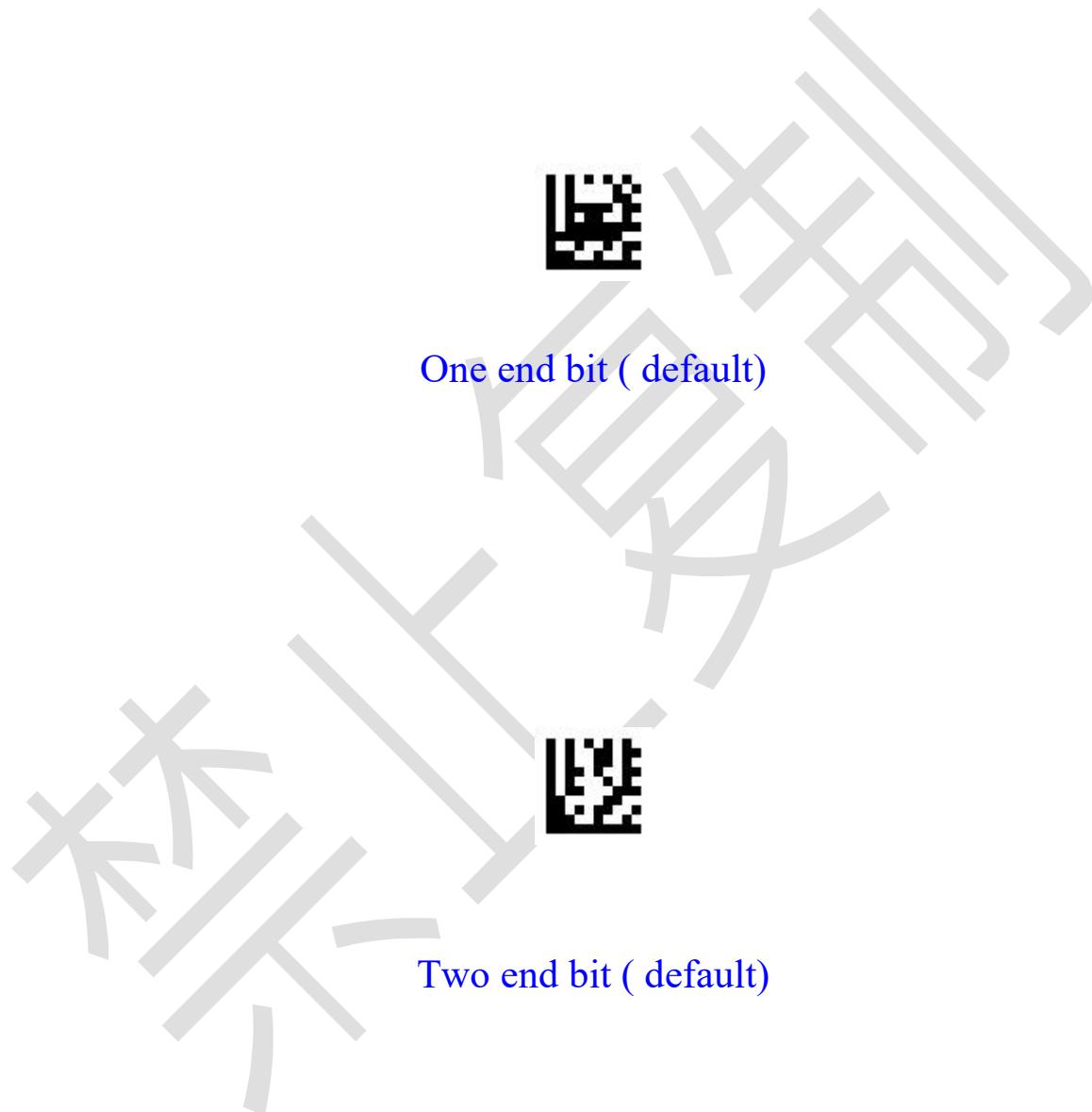


End Setting

Serial end bit



Start setting

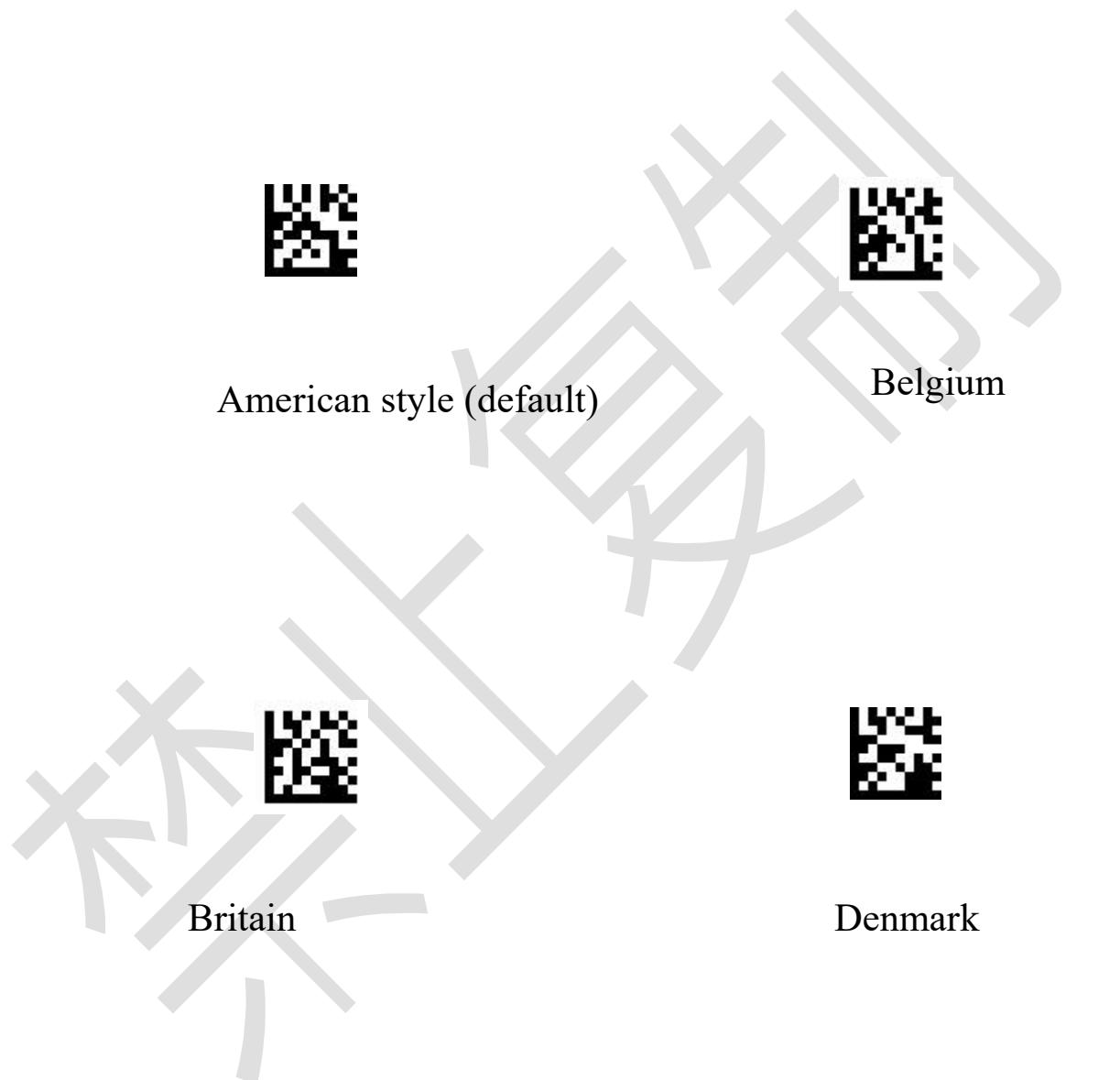


End Setting

International keyboard



Start setting

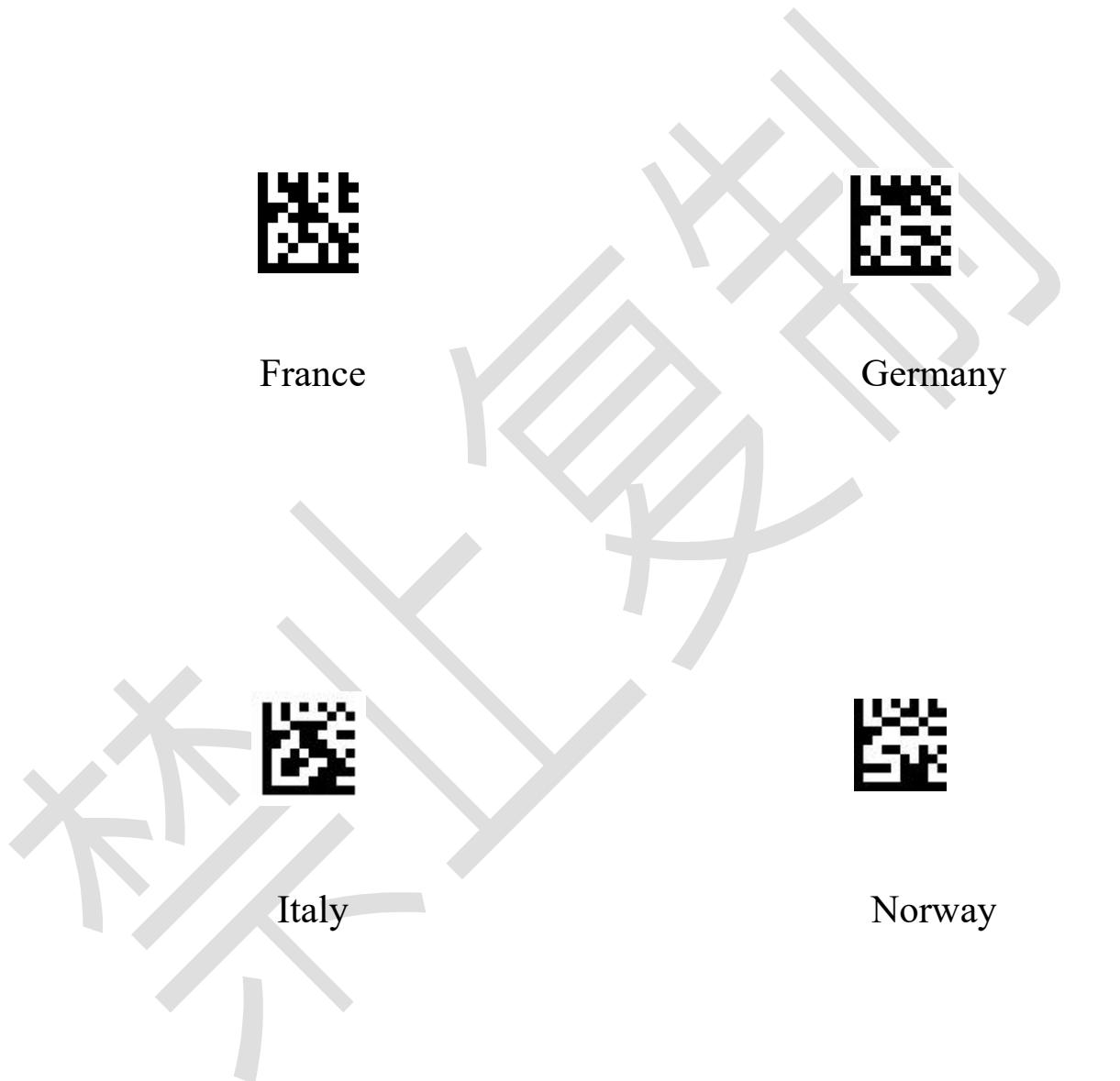


End Setting

International keyboard



Start setting

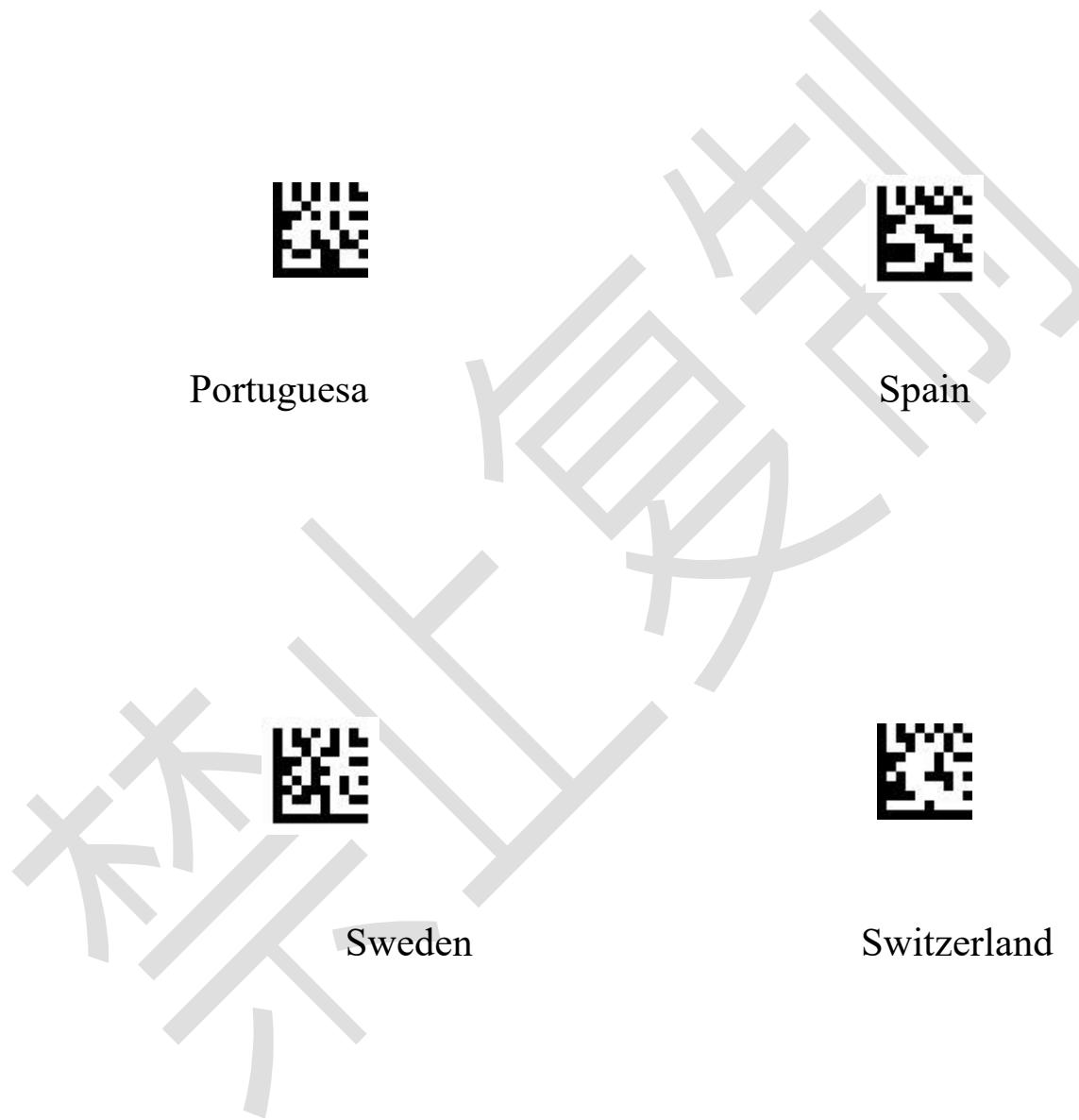


End Setting

International keyboard



Start setting

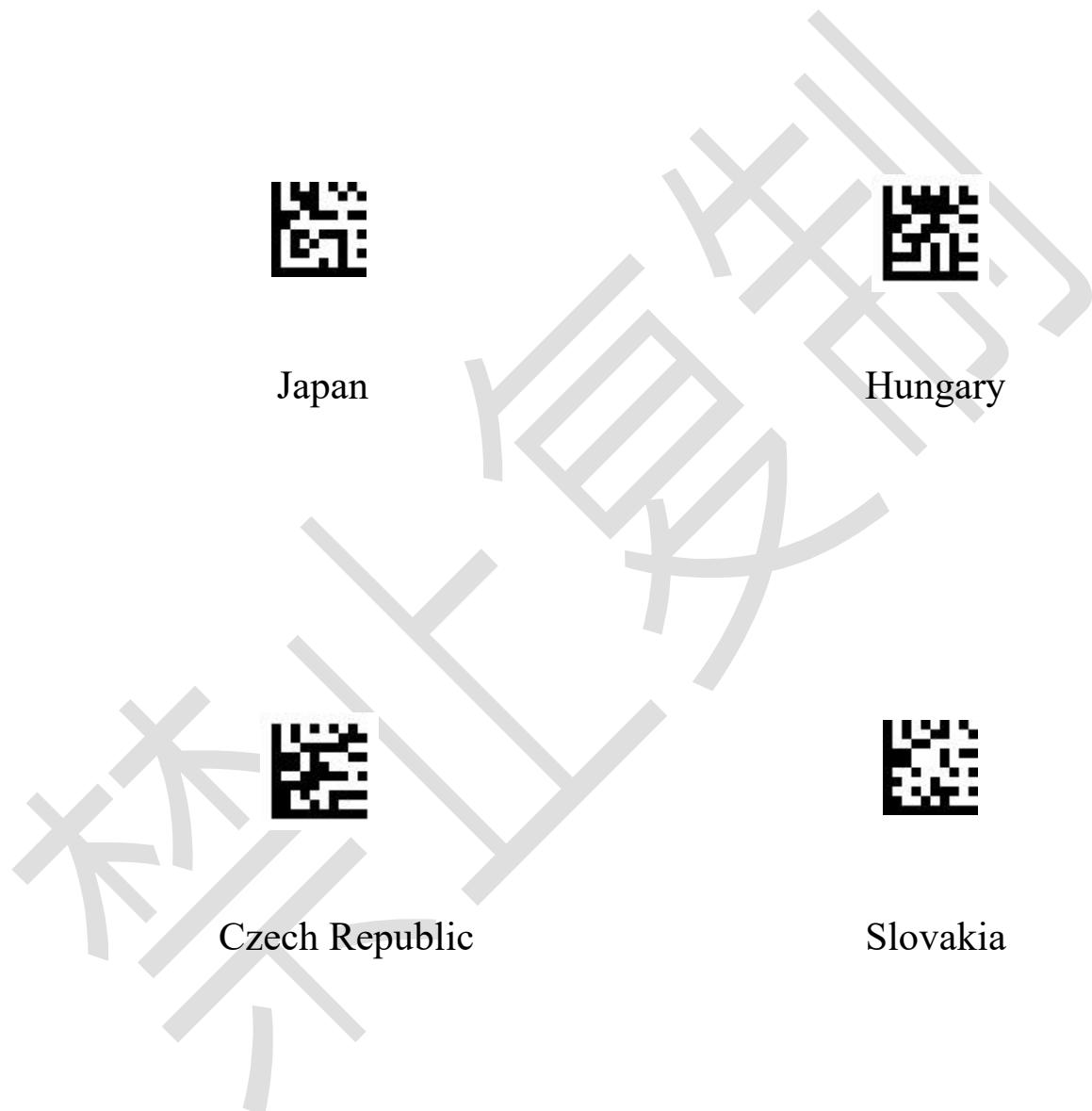


End Setting

International keyboard



Start setting

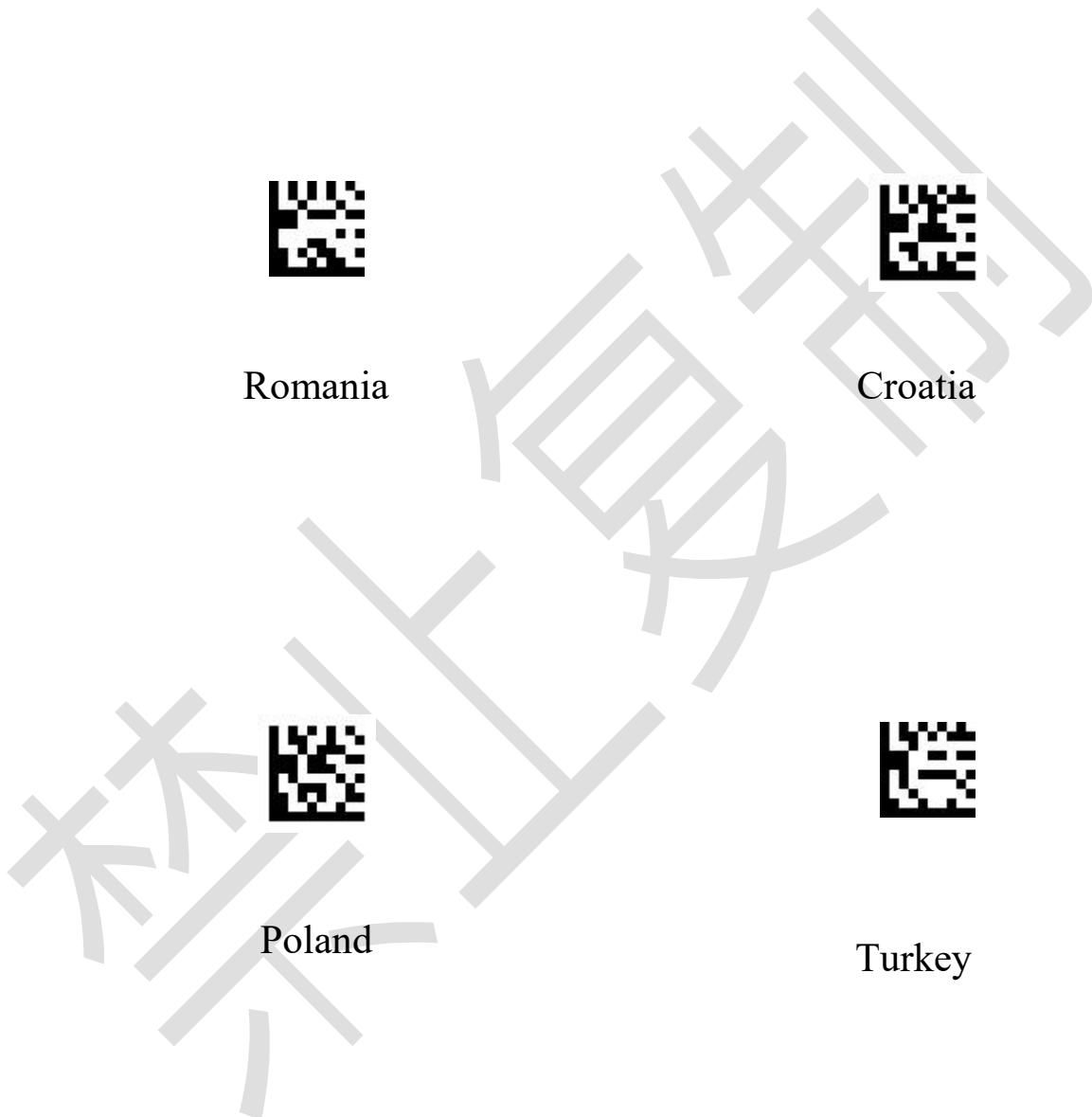


End Setting

International keyboard



Start setting

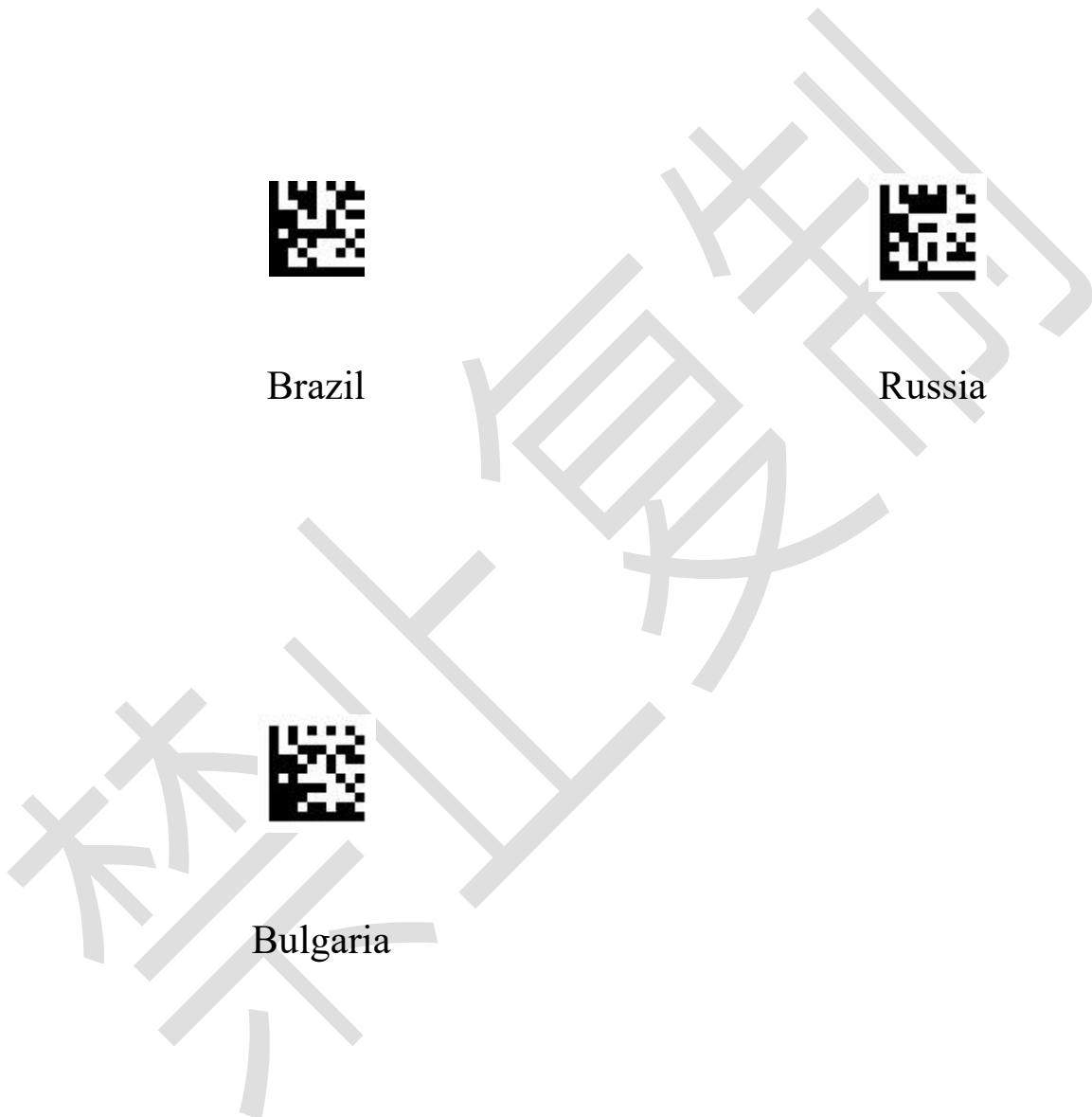


End Setting

International keyboard



Start setting



End Setting

Code Page Digit encoding



Start setting



Jane (GB2312) – Unicode / Excel ; Notepad



Jane (GB2312) – Code Page / Word



End Setting

Digit encoding

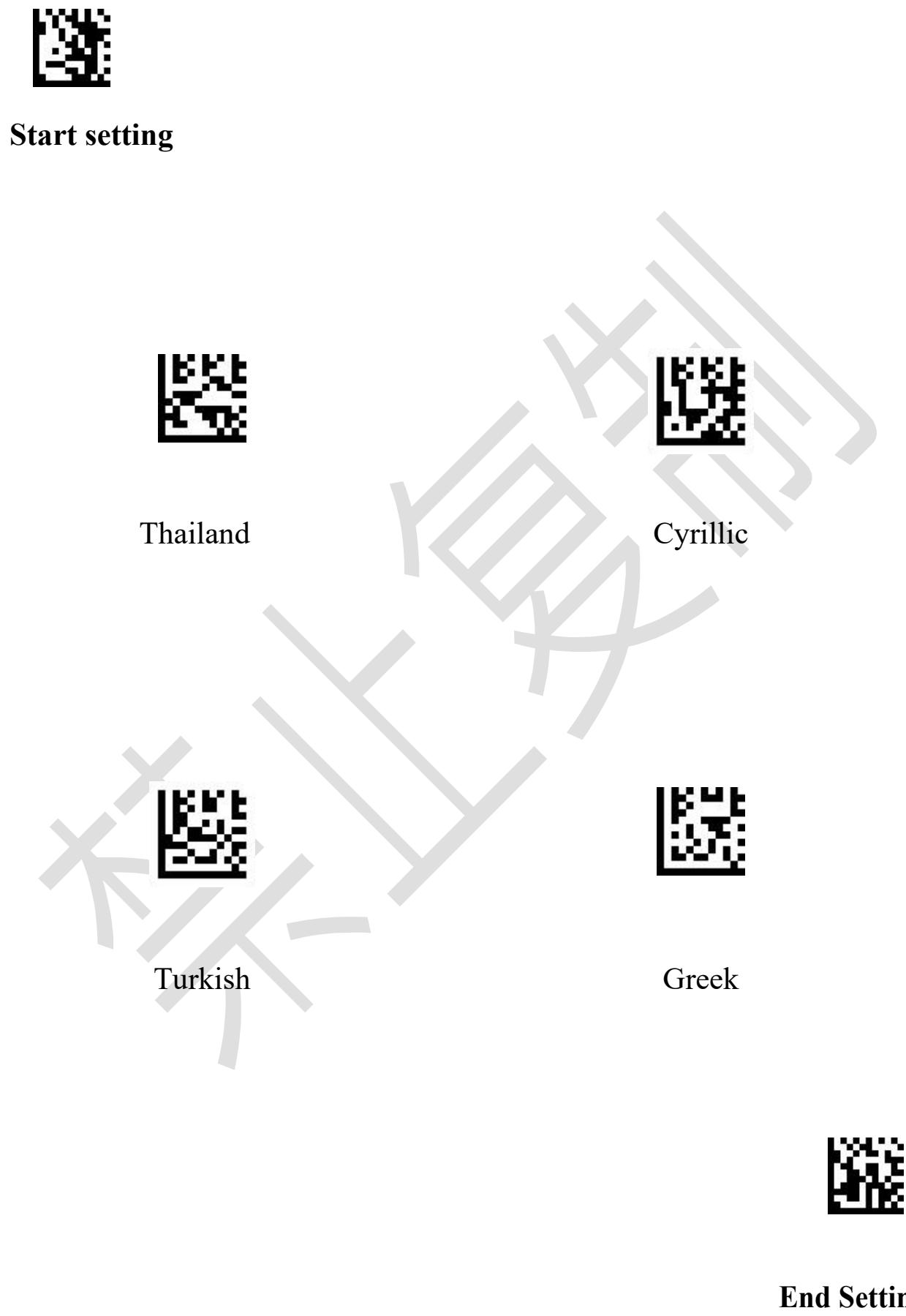


Start setting



Exit Setup

Digit encoding



Digit encoding



Enter Setup



West European Latin



Central and East European Latin



Hebrew



Exit Setup

System setting

Sight light



Start setting



Open scan



Always on (default)



Close



End Setting

Supplementary light operating mode



Start setting



Open scan (default)



Always open



Fade Up



Close

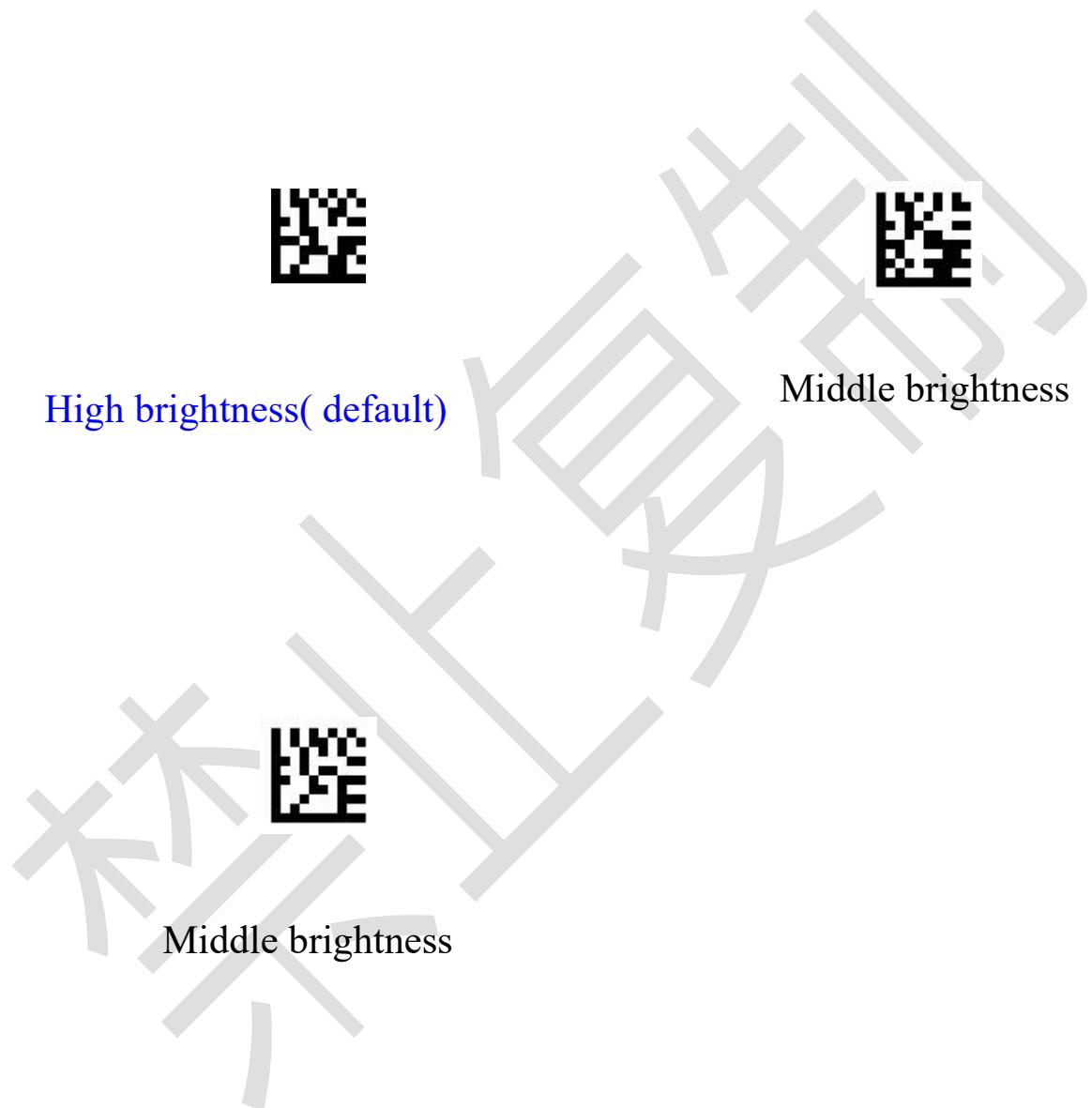


End Setting

Supplementary light light intensity



Start setting

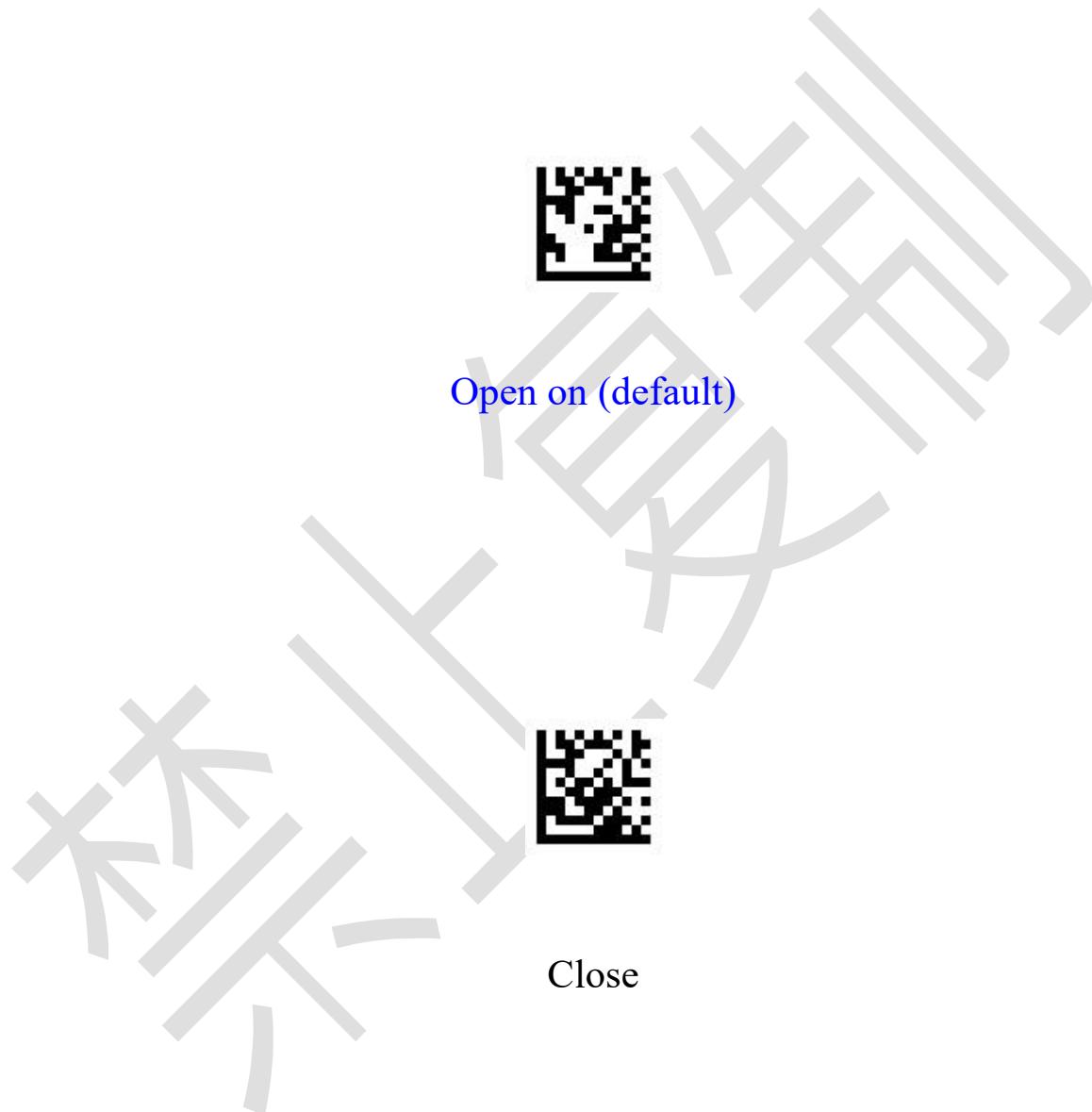


End Setting

Buzzer



Start setting



End Setting

Barcode setting

Support code system	
UPC A	Default open
UPC E	Default open
EAN 8	Default open
EAN 13	Default open
Code 128 / GS1-128	Default open
Code 39	Default open
Code 93	Default open
Code 32	Close
Code 11	Close
Codabar	Default open
Plessey	Close
MSI Plessey	Default open
Interleaved 2 of 5	Default open
IATA 2 of 5	Close
Matrix 2 of 5	Close

Support code system

Straight 2 of 5	Close
Pharmacode	Close
GS1 DataBar 14	Default open
GS1 DataBar 14 Stacked	Close
GS1 DataBar Expanded	Default open
GS1 DataBar Expanded Stacked	Close
GS1 DataBar Limited	Default open
Composite Code-A	Close
Composite Code-B	Close
Composite Code-C	Close
PDF417	Default open
Micro PDF417	Default open
Data Matrix	Default open
QR	Default open
Micro QR	Default open
Aztec	Close
MaxiCode	Close

Open all barcodes

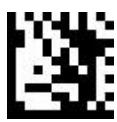


Start setting



End Setting

Only turn on 1D code



Start setting



End Setting

Only open 2D code



Start setting



Only turn on 2D
code



End Setting

Close all barcodes



Start setting



End Setting

Turn off 1D code



Start setting



End Setting

Turn off 2D code



Start setting

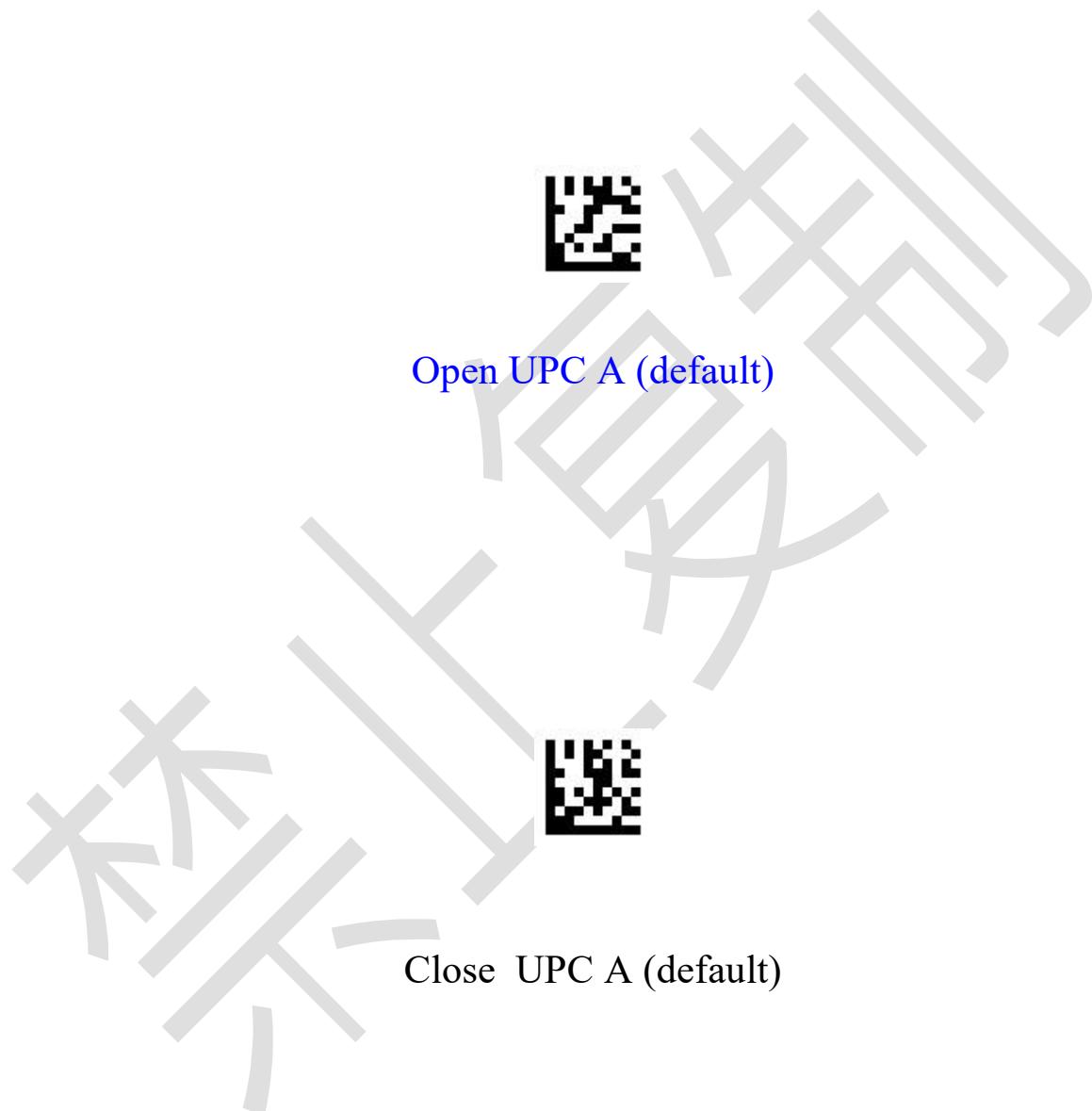


End Setting

UPC A



Start setting

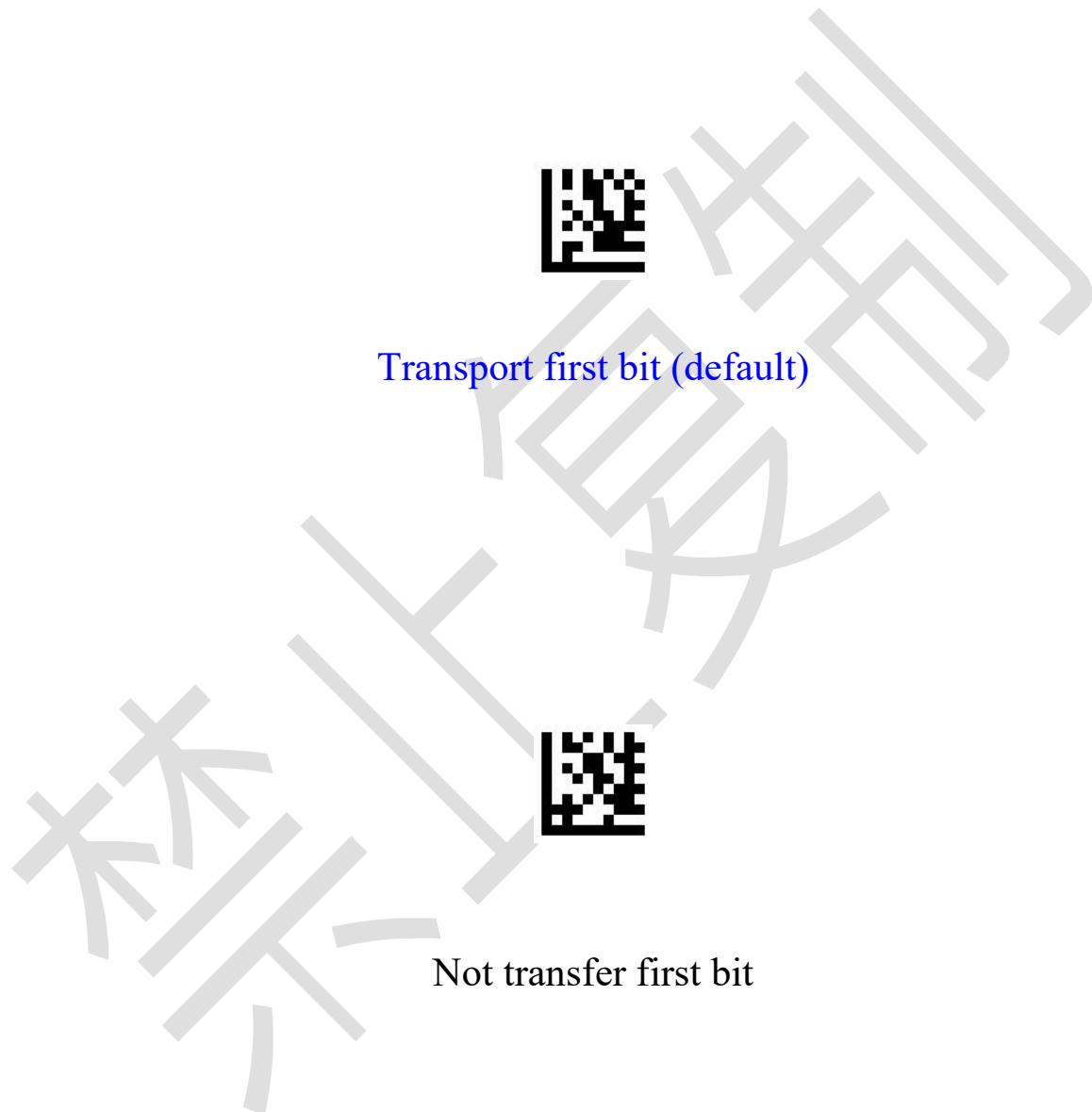


End Setting

UPC A



Start setting

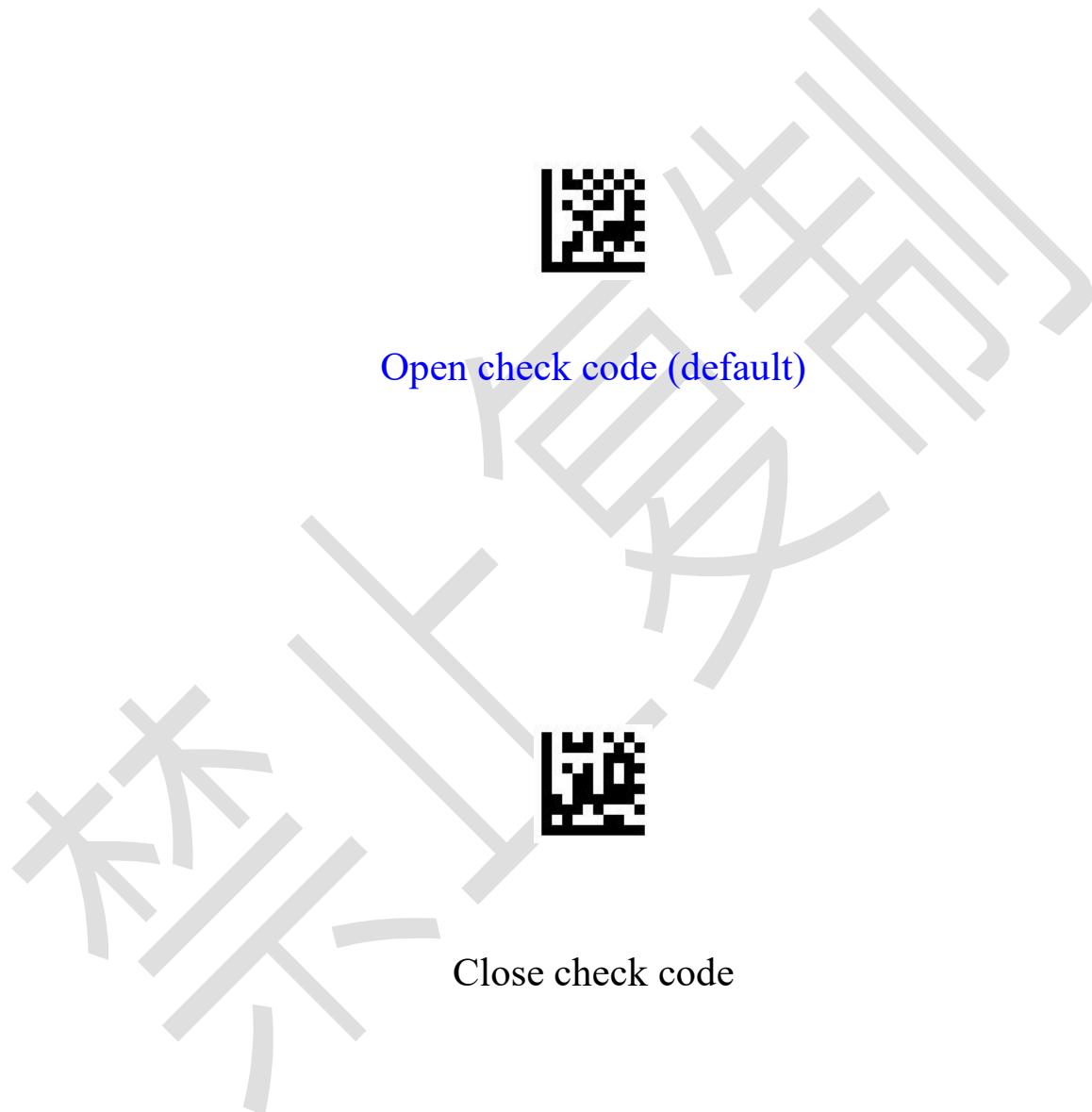


End Setting

UPC A



Start setting



End Setting

UPC A



Start setting



End Setting

UPC A



Start setting

Open UPC A 2 / 5-bit additional code



Close UPC A 2 / 5-bit additional code (default)

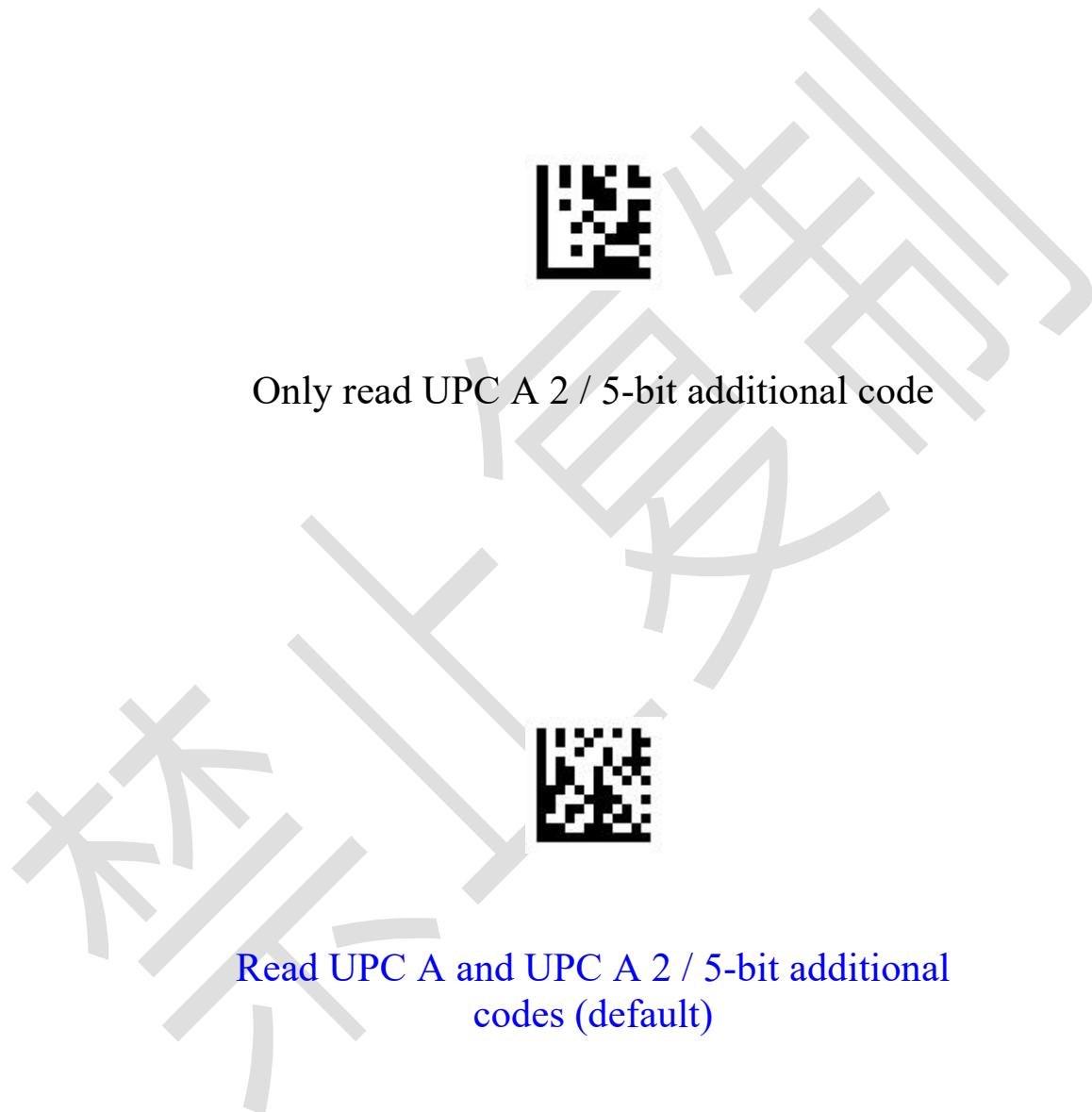


End Setting

UPC A



Start setting

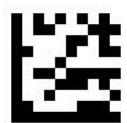


End Setting

UPC E



Start setting



Open UPC E
(default)



close UPCA

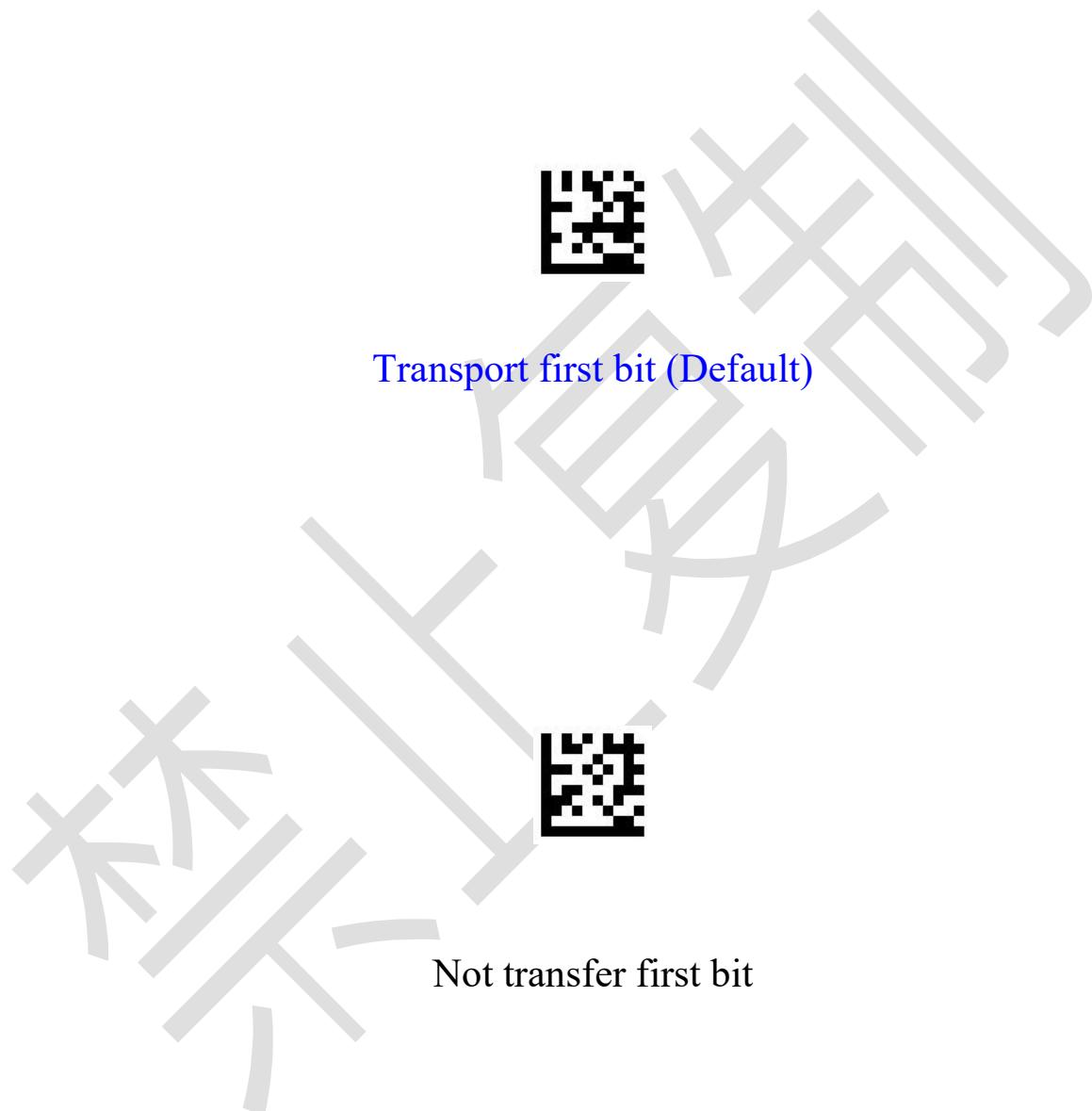


End Setting

UPC E



Start setting

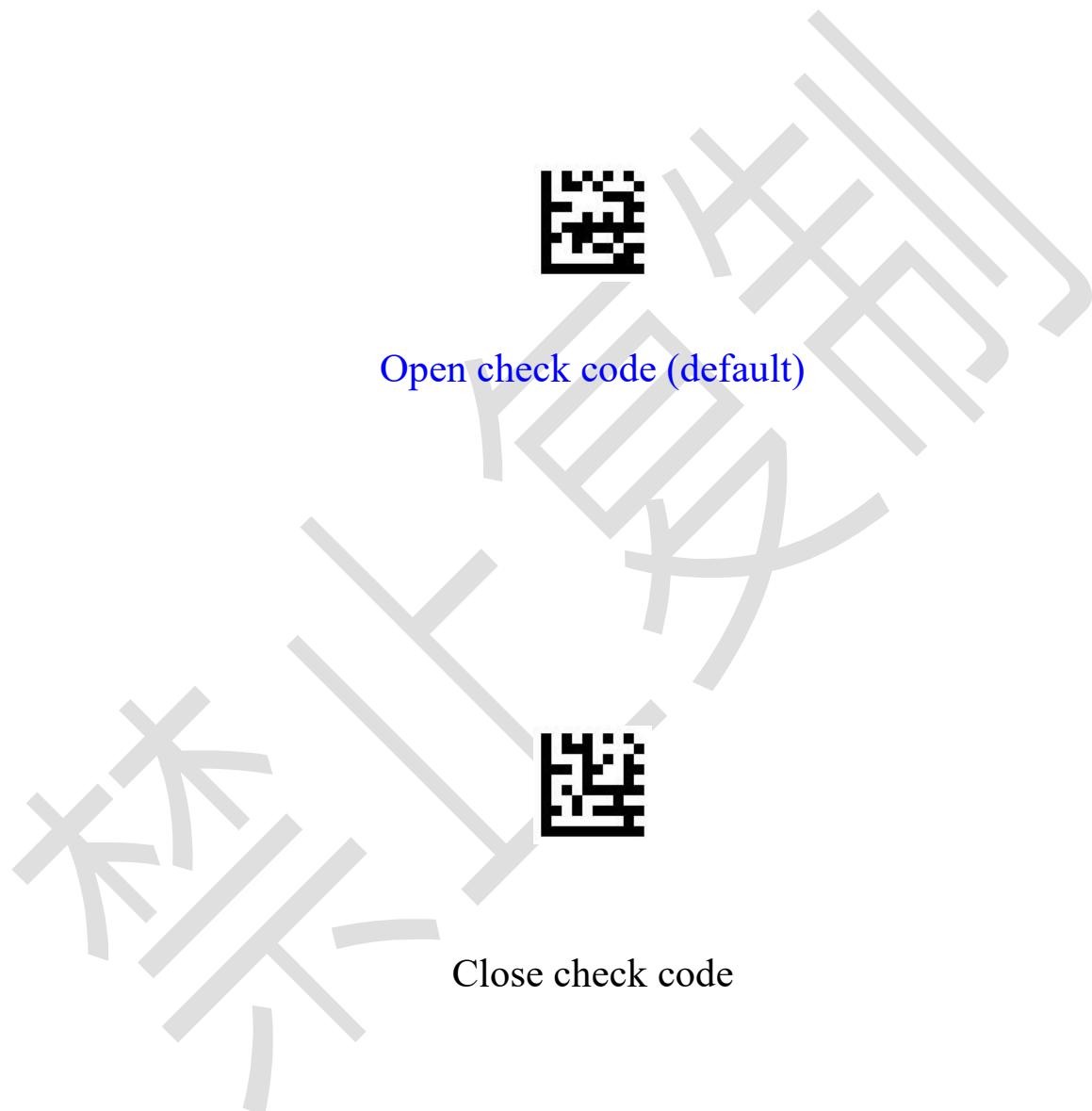


End Setting

UPC E



Start setting

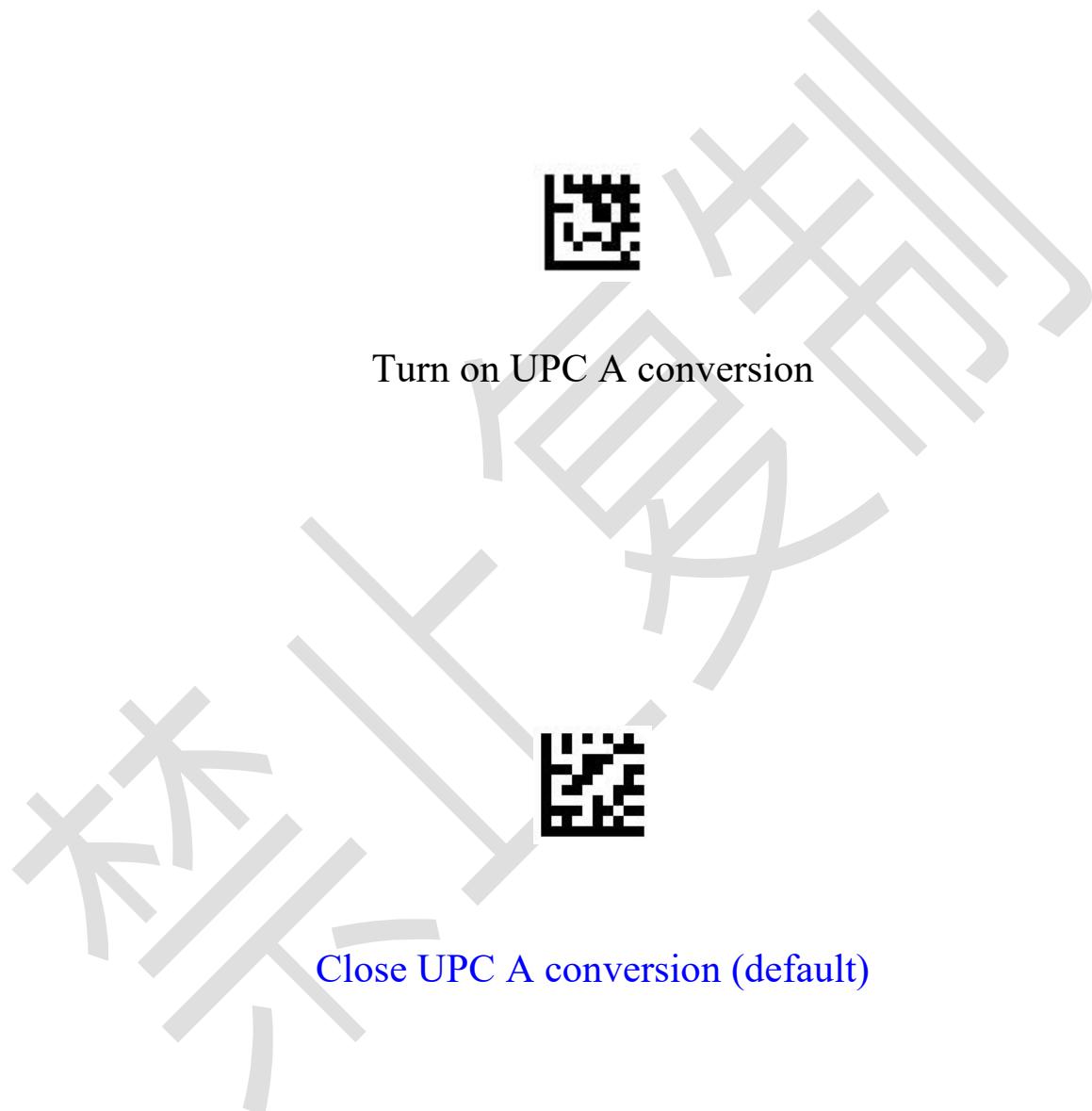


End Setting

UPC E



Start setting

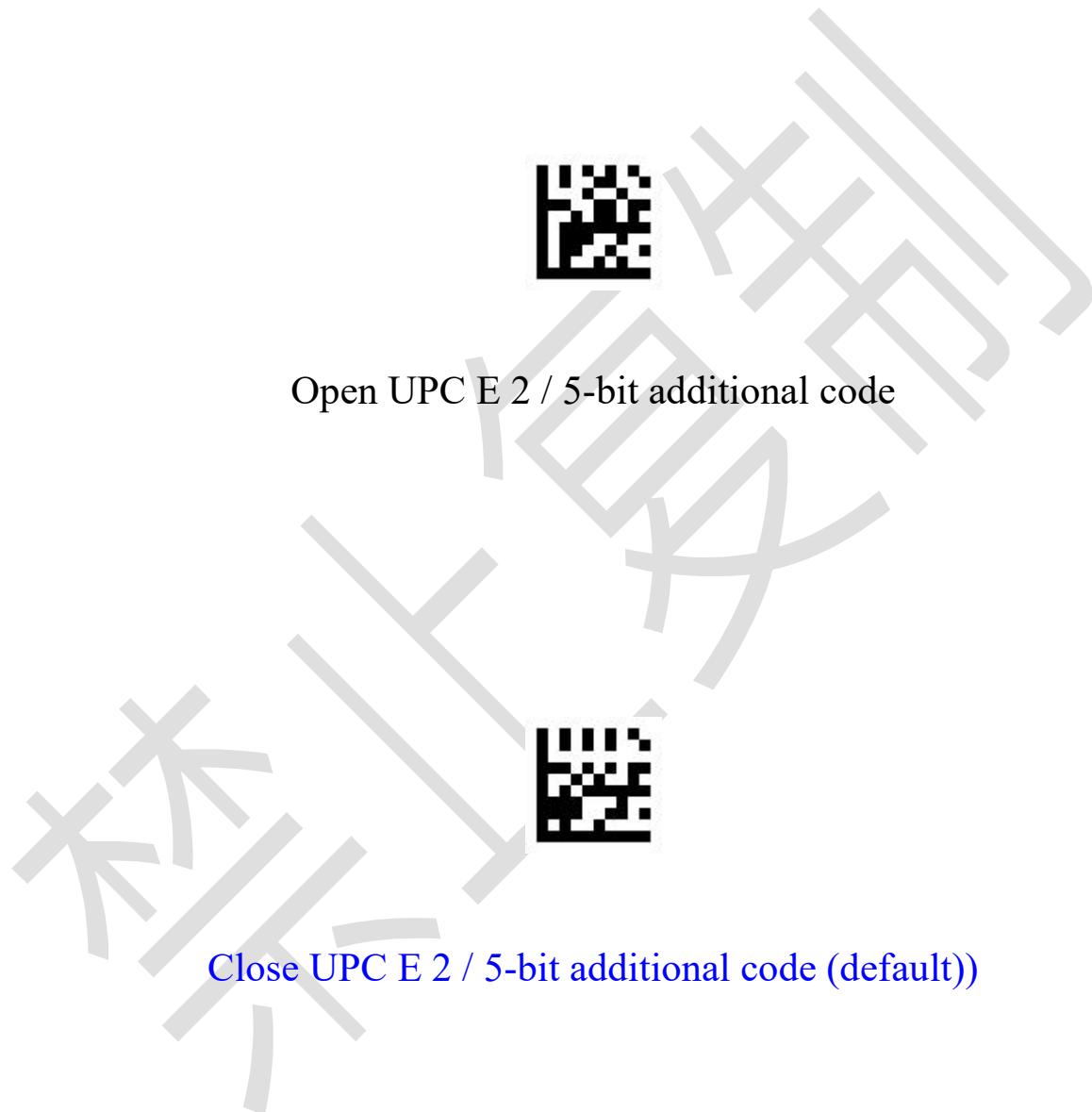


End Setting

UPC E



Start setting

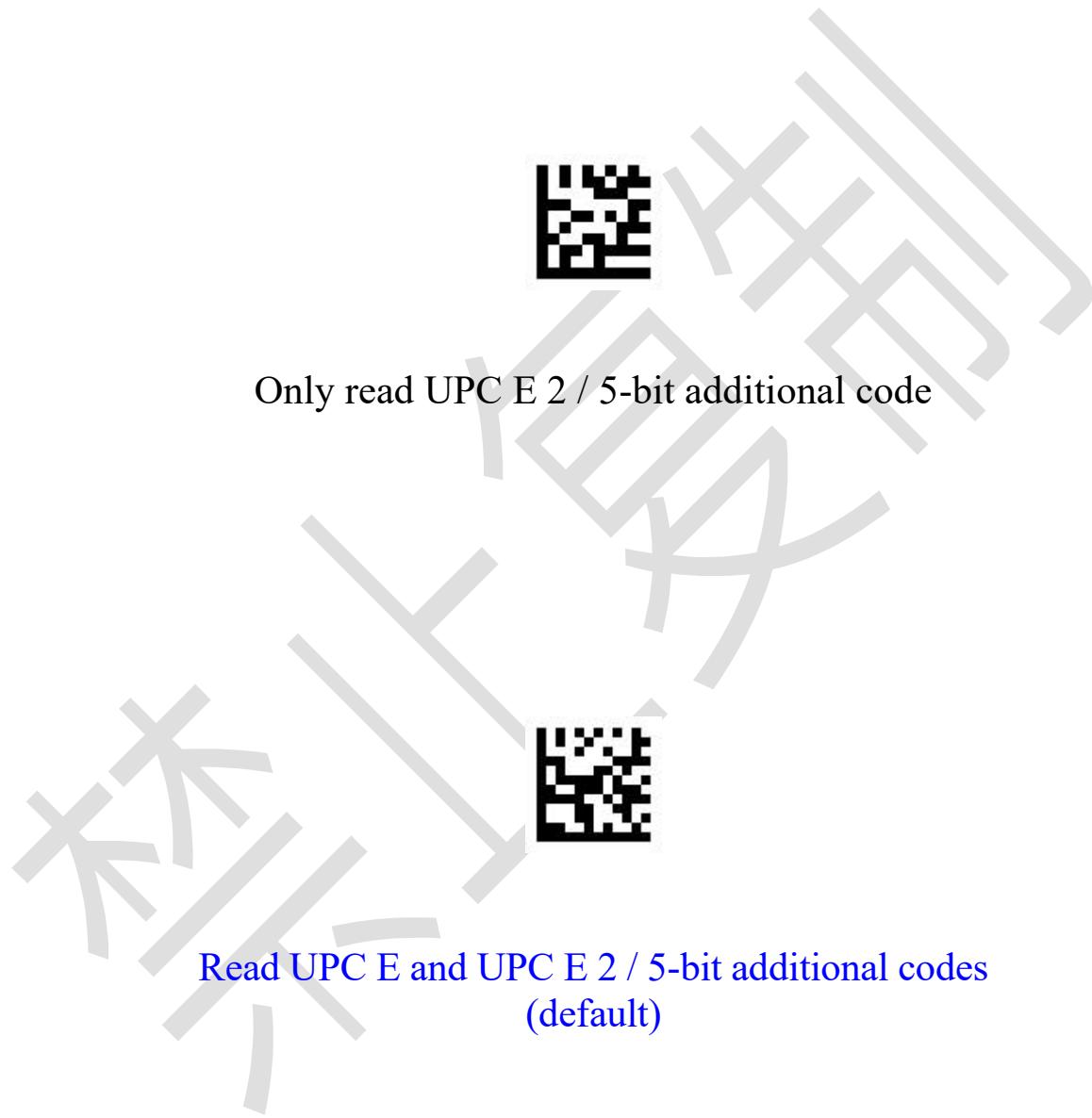


End Setting

UPC E



Start setting

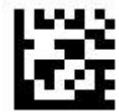


End Setting

EAN 8



Start setting



Open EAN 8 (default)



Close EAN 8

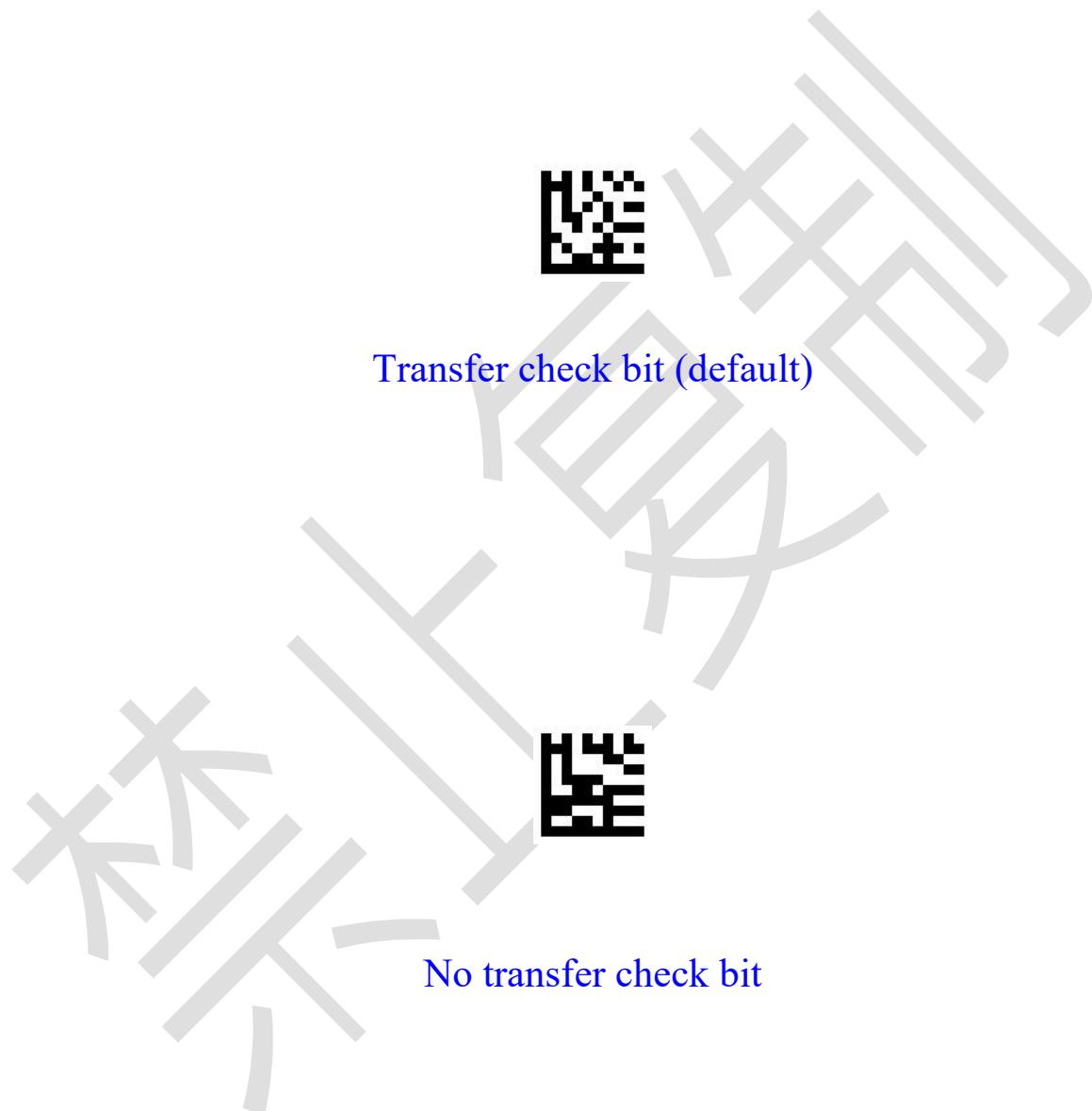


End Setting

EAN 8



Start setting

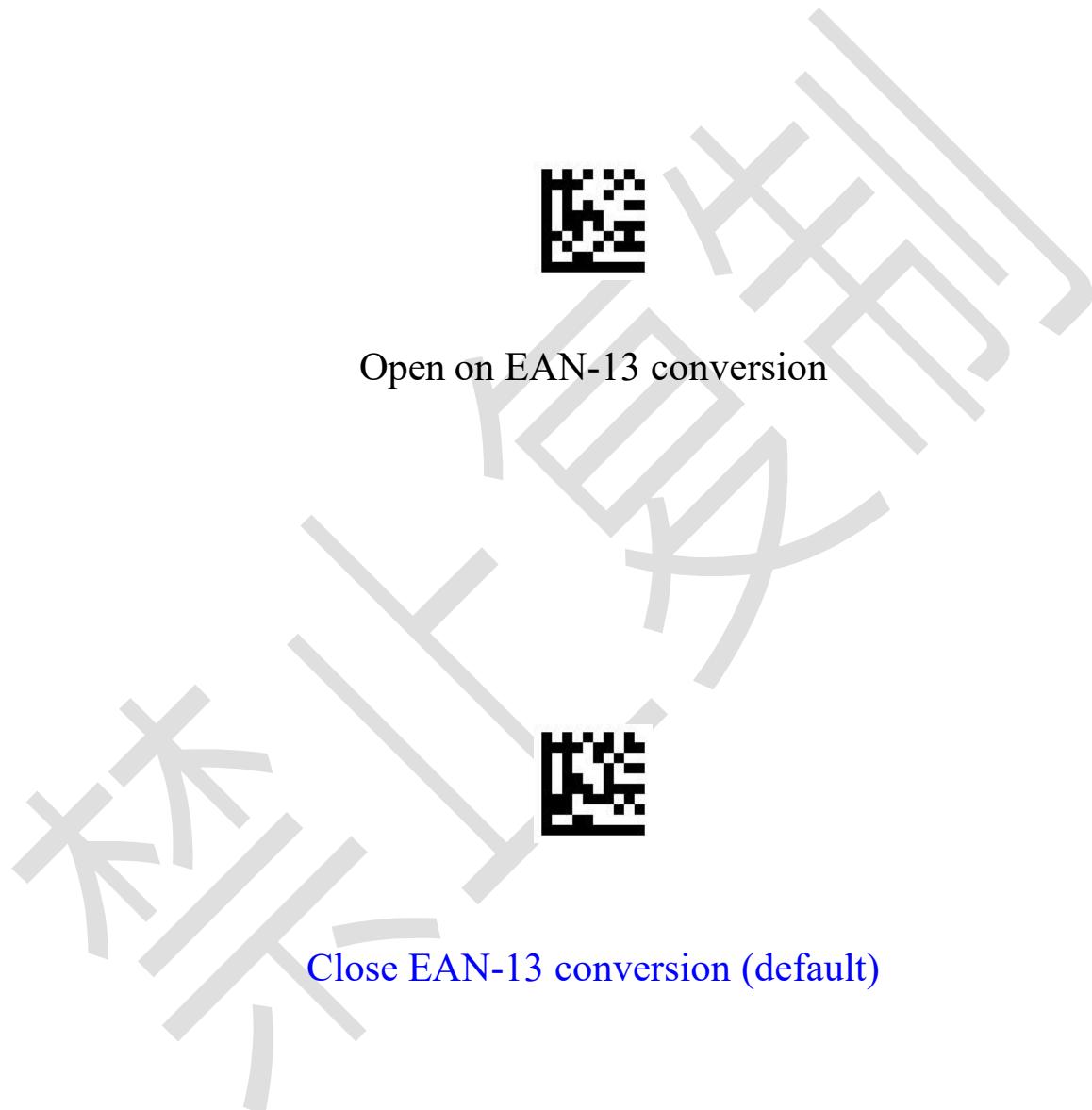


End Setting

EAN 8



Start setting



End Setting

EAN 8



Start setting



Open EAN 8 2 / 5-bit additional code



Close EAN 8 2 / 5-bit additional code
(default)

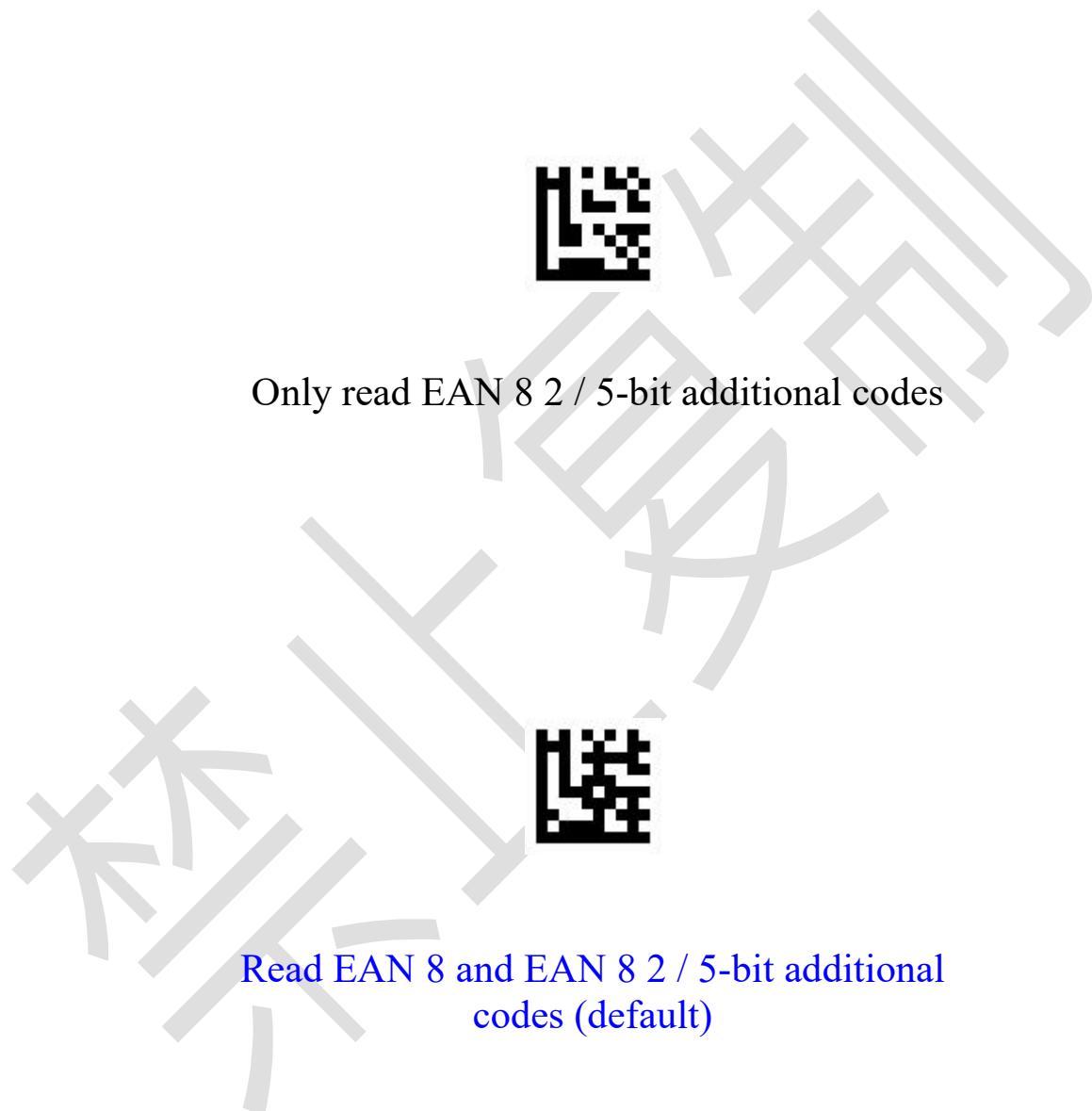


End Setting

EAN 8



Start setting

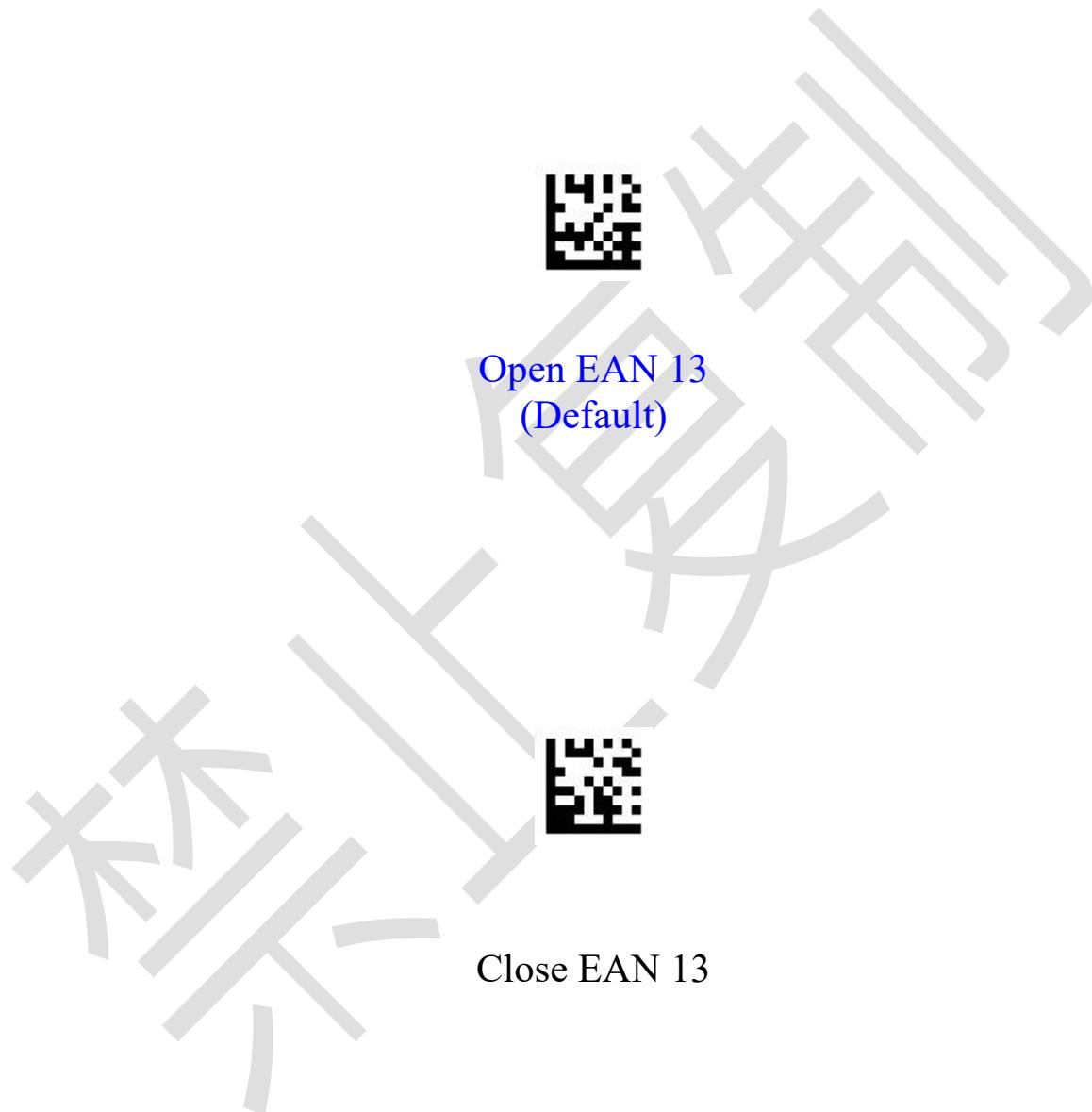


End Setting

EAN 13



Start setting

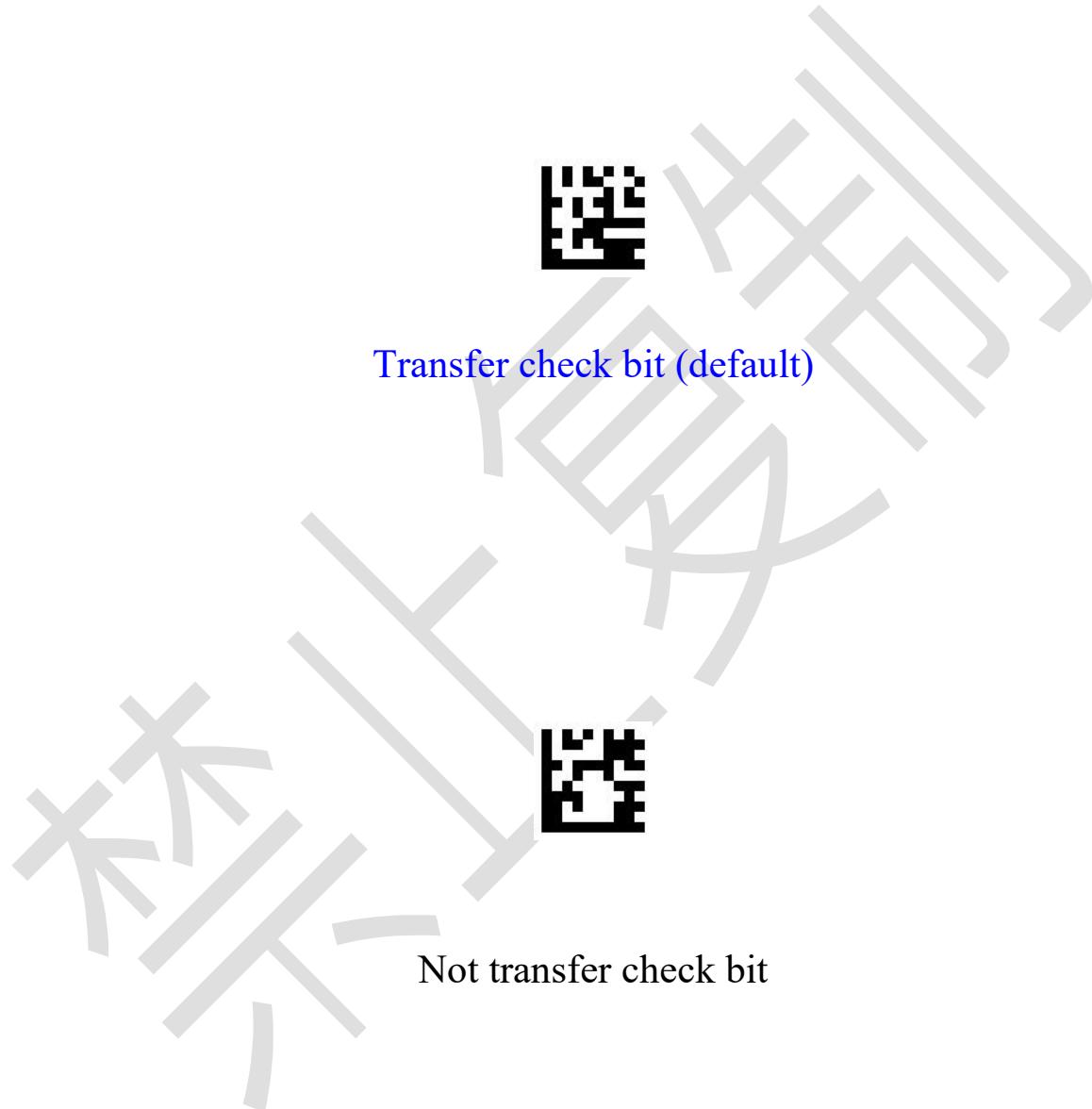


End Setting

EAN 13



Start setting

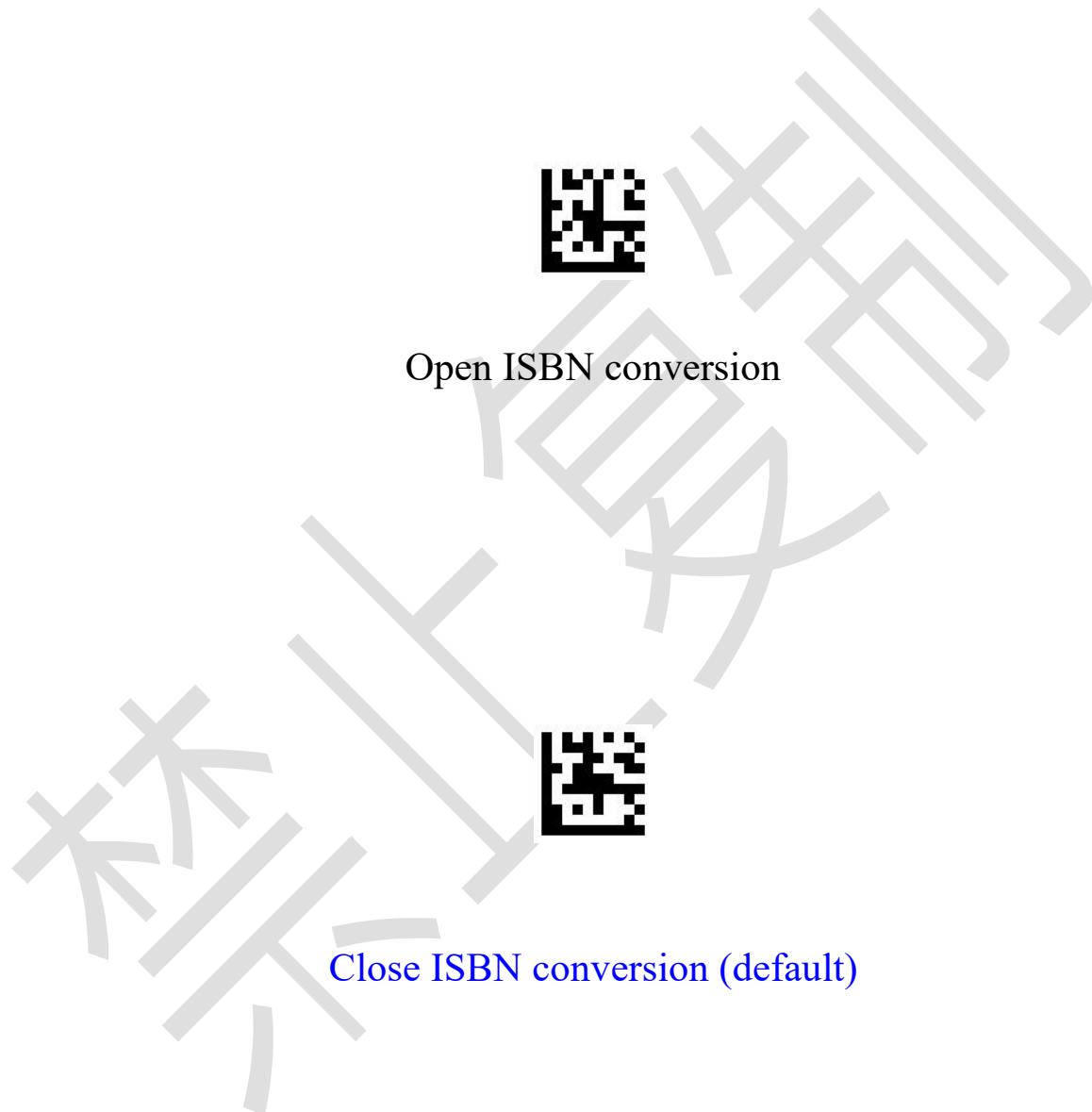


End Setting

EAN 13



Start setting

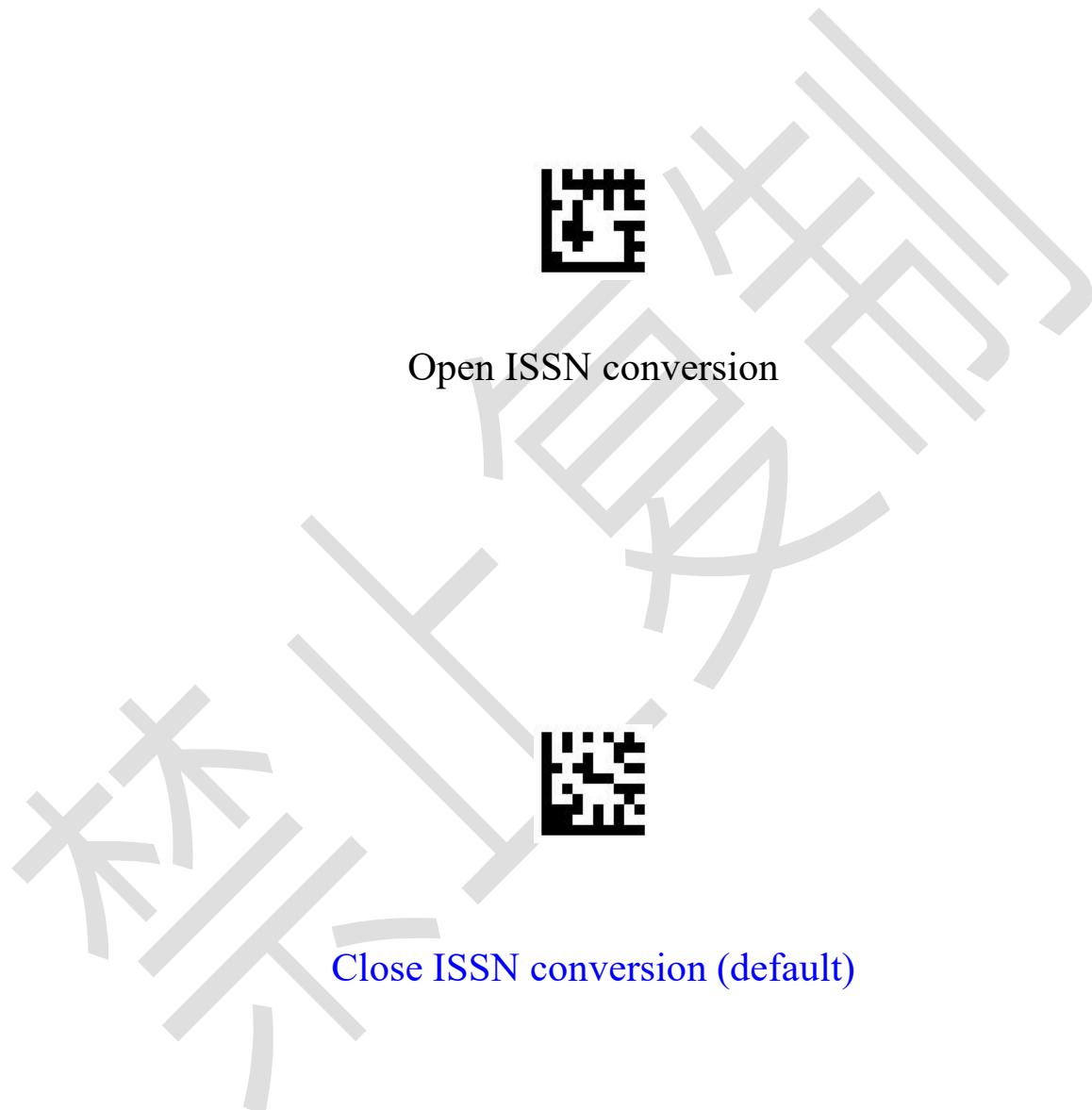


End Setting

EAN 13



Start setting

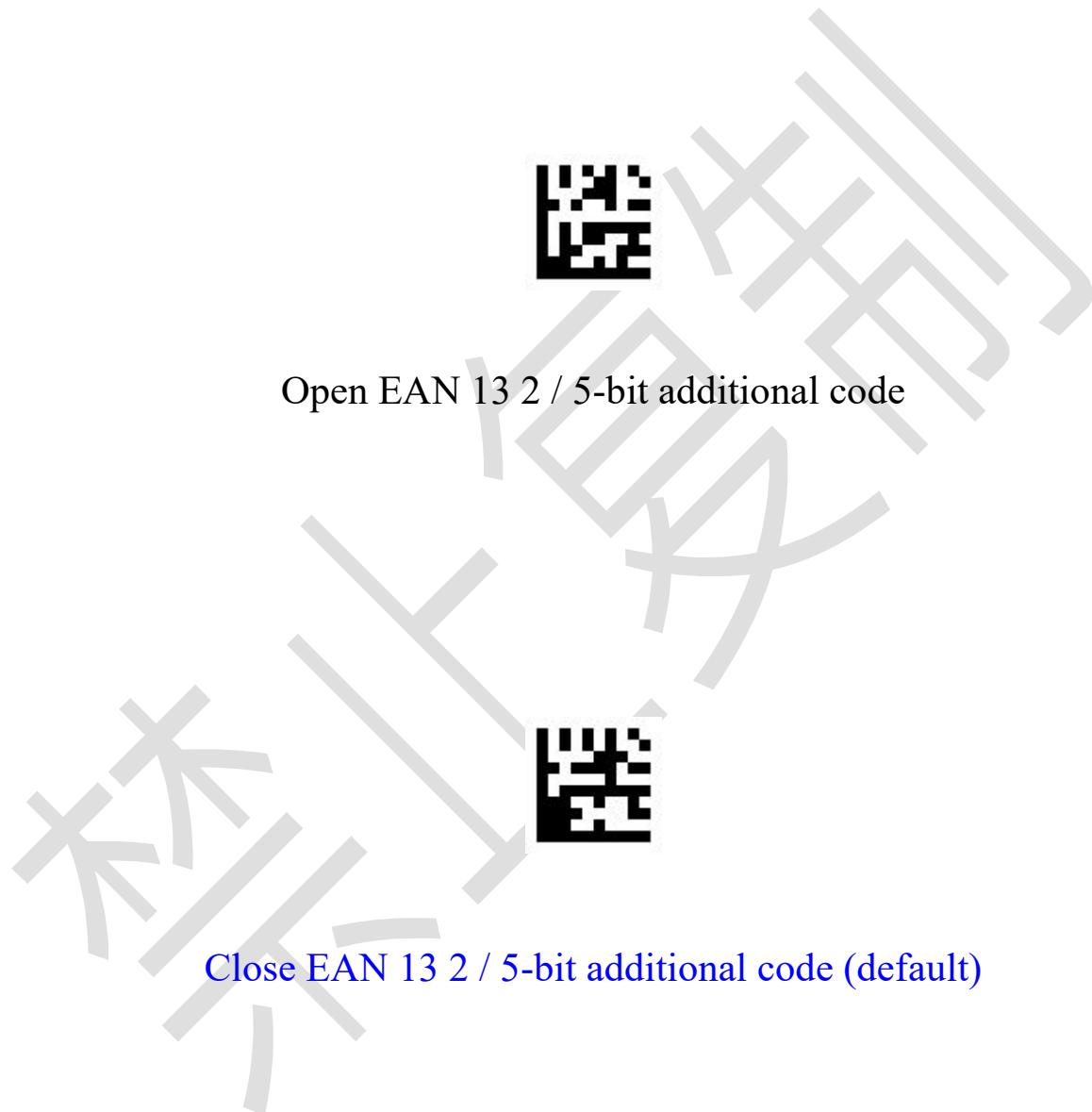


End Setting

EAN 13



Start setting

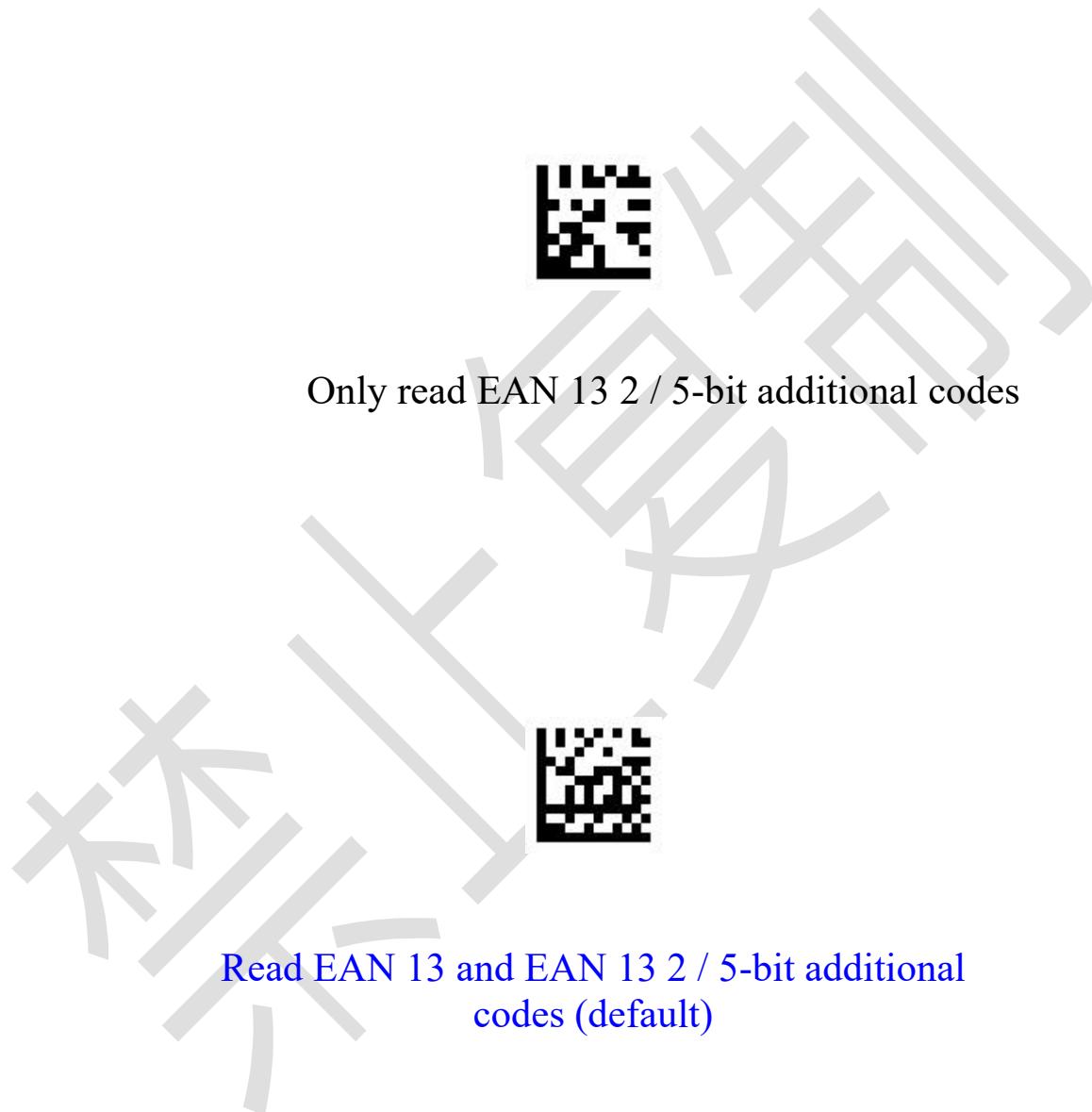


End Setting

EAN 13



Start setting

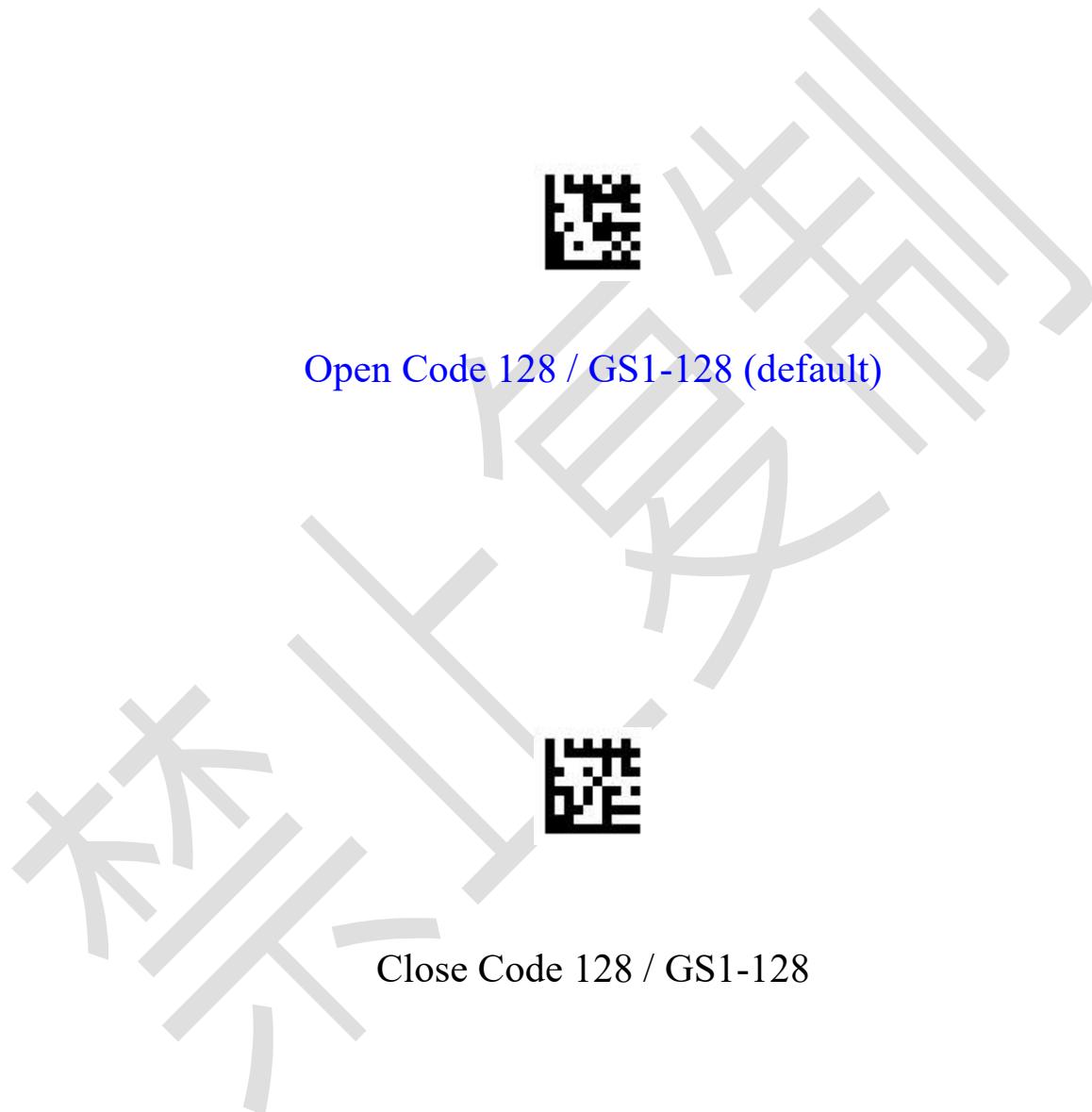


End Setting

Code 128 / GS1 -128



Start setting

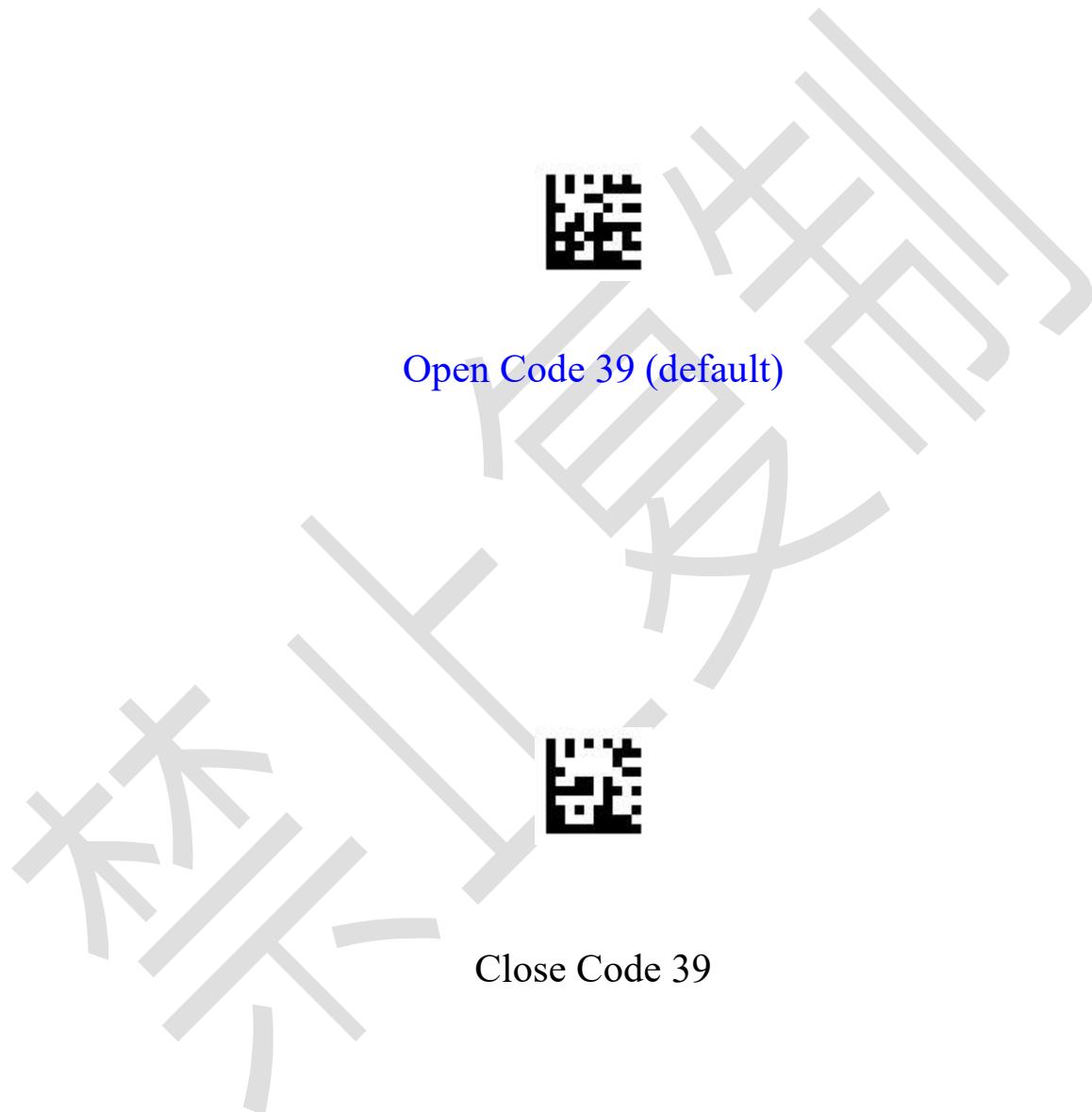


End Setting

Code 39



Start setting

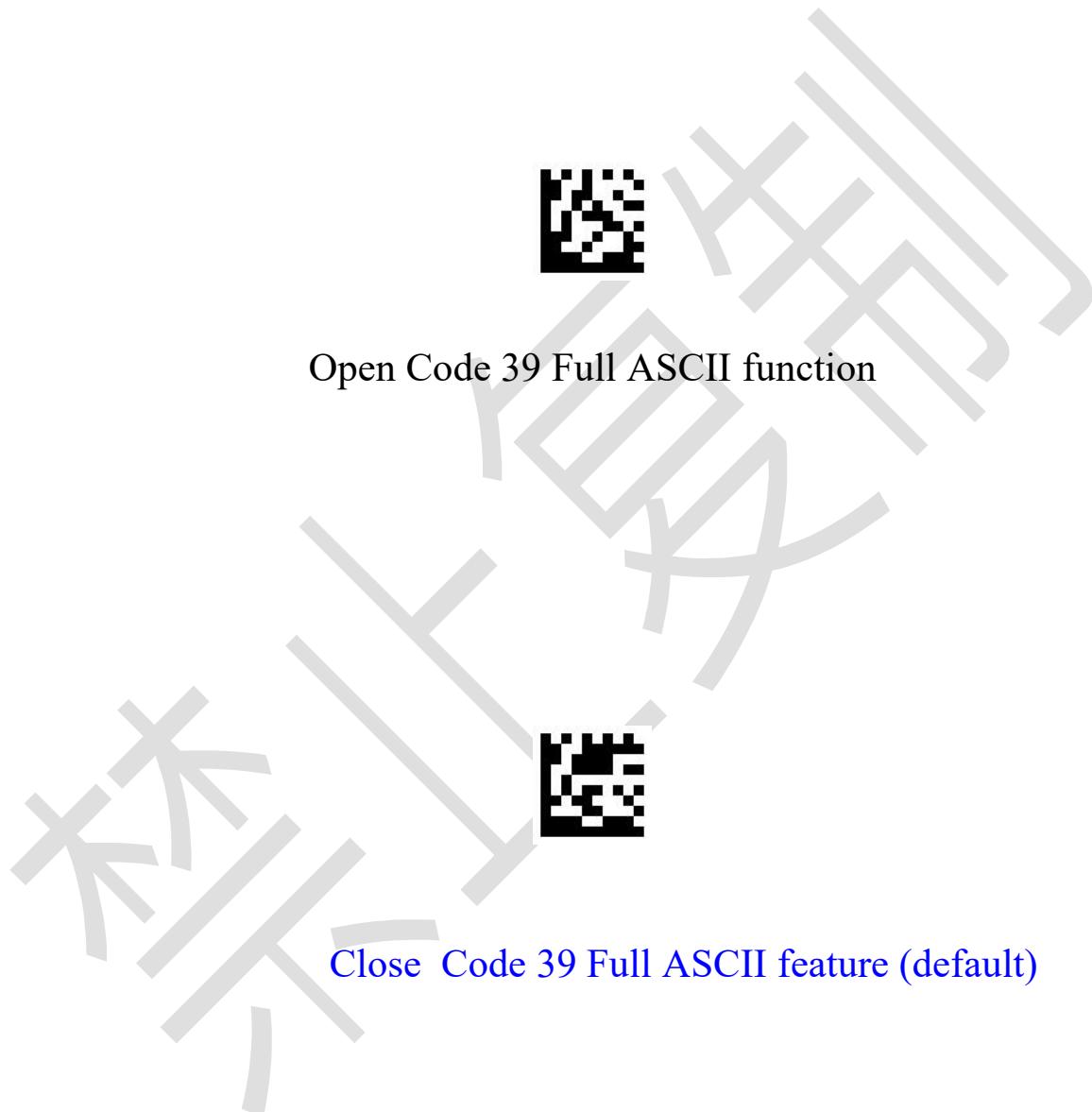


End Setting

Code 39



Start setting

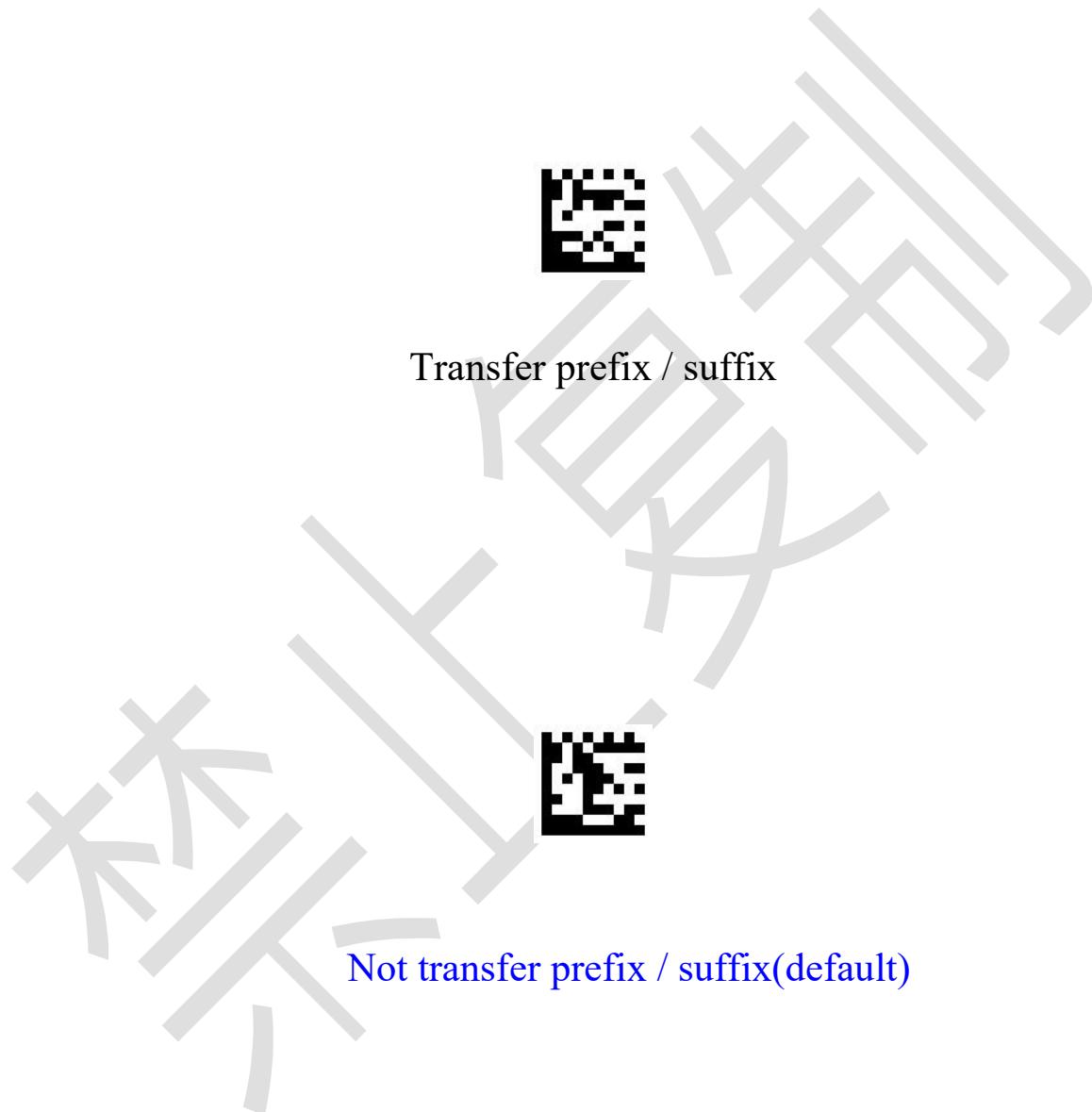


End Setting

Code 39



Start setting

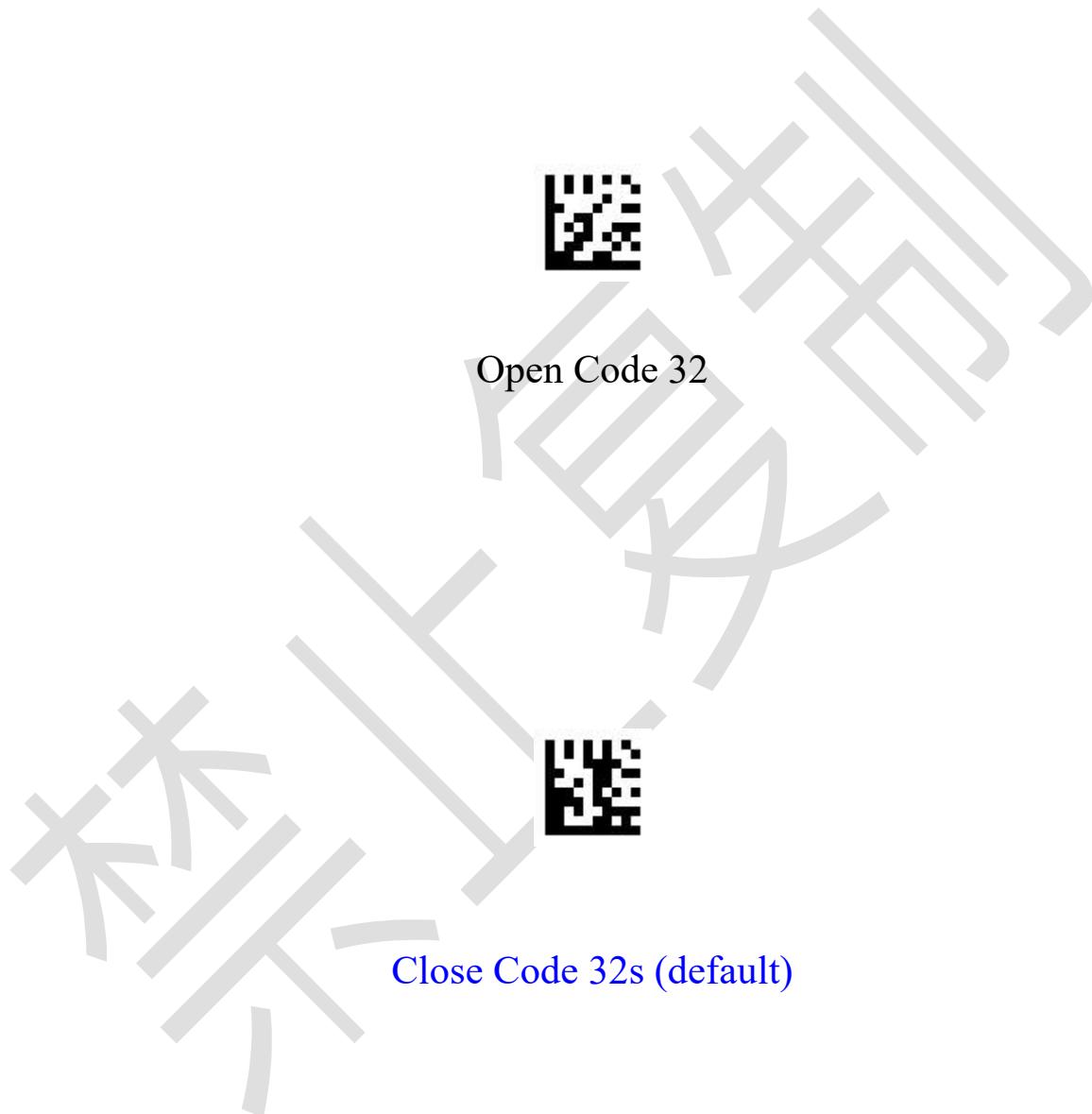


End Setting

Code 32



Start setting

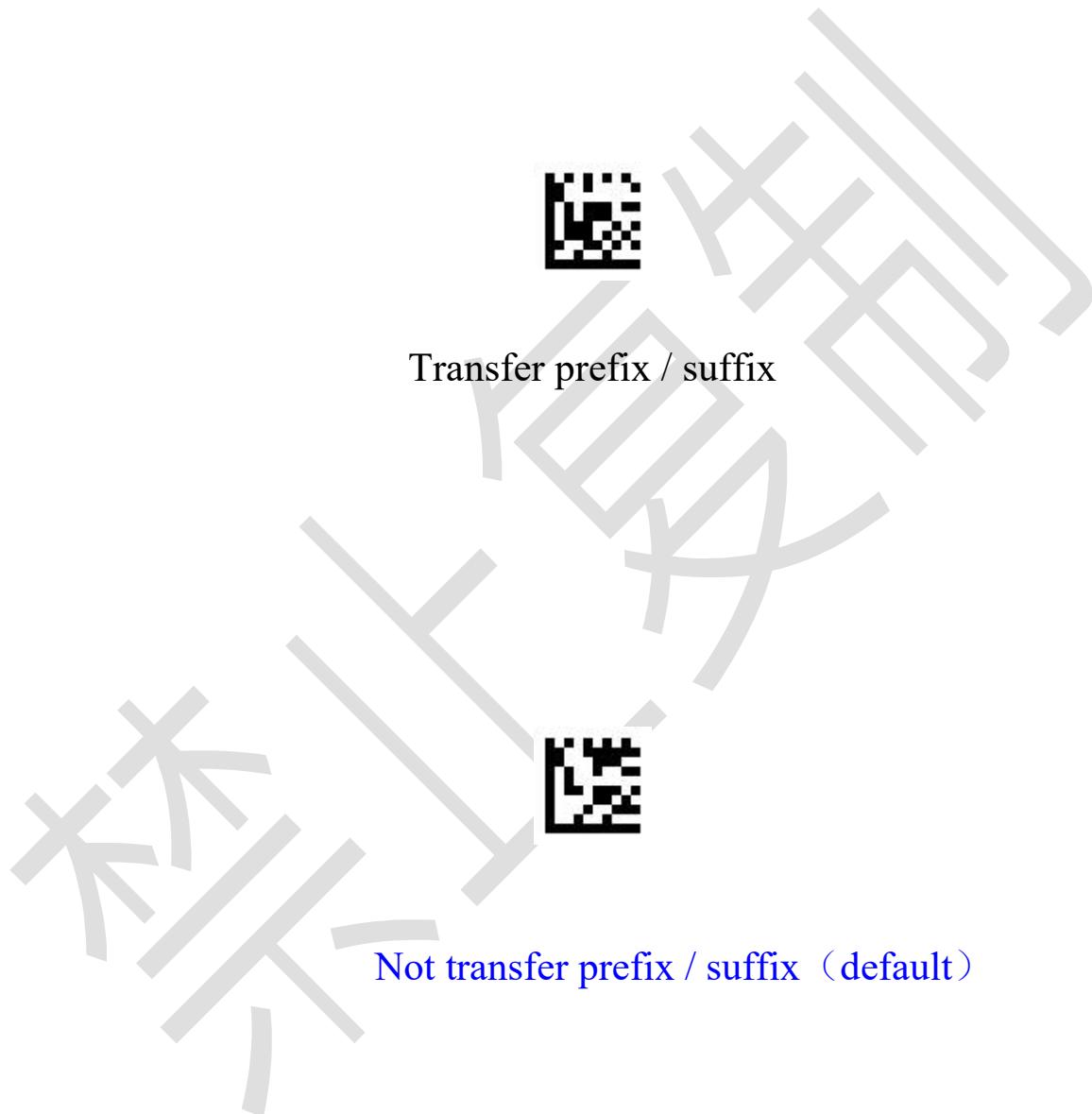


End Setting

Code 32



Start setting



End Setting

Code 39



Start setting



Not check (default)



Check and transfer



Check not transfer

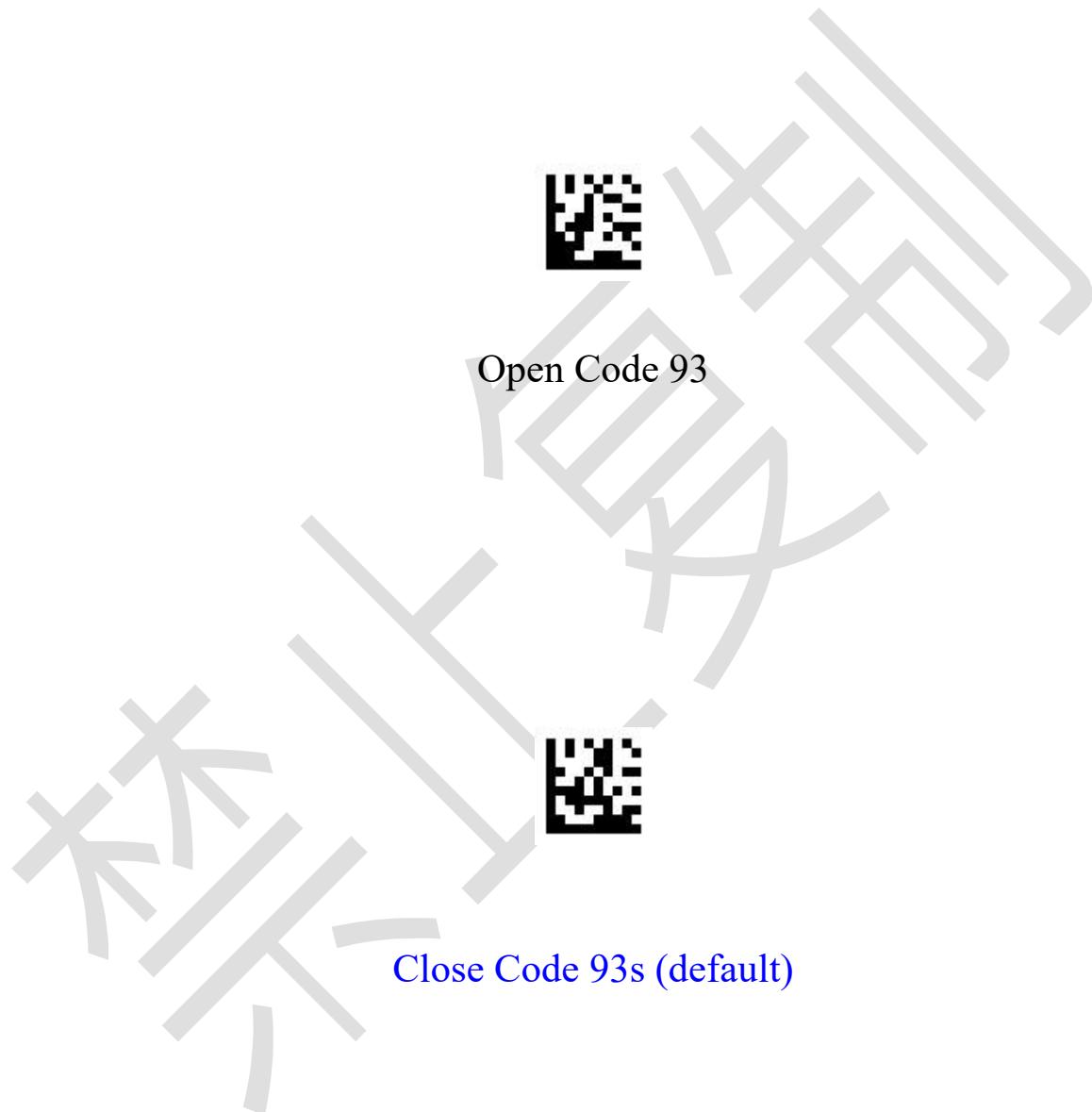


End Setting

Code 93



Start setting

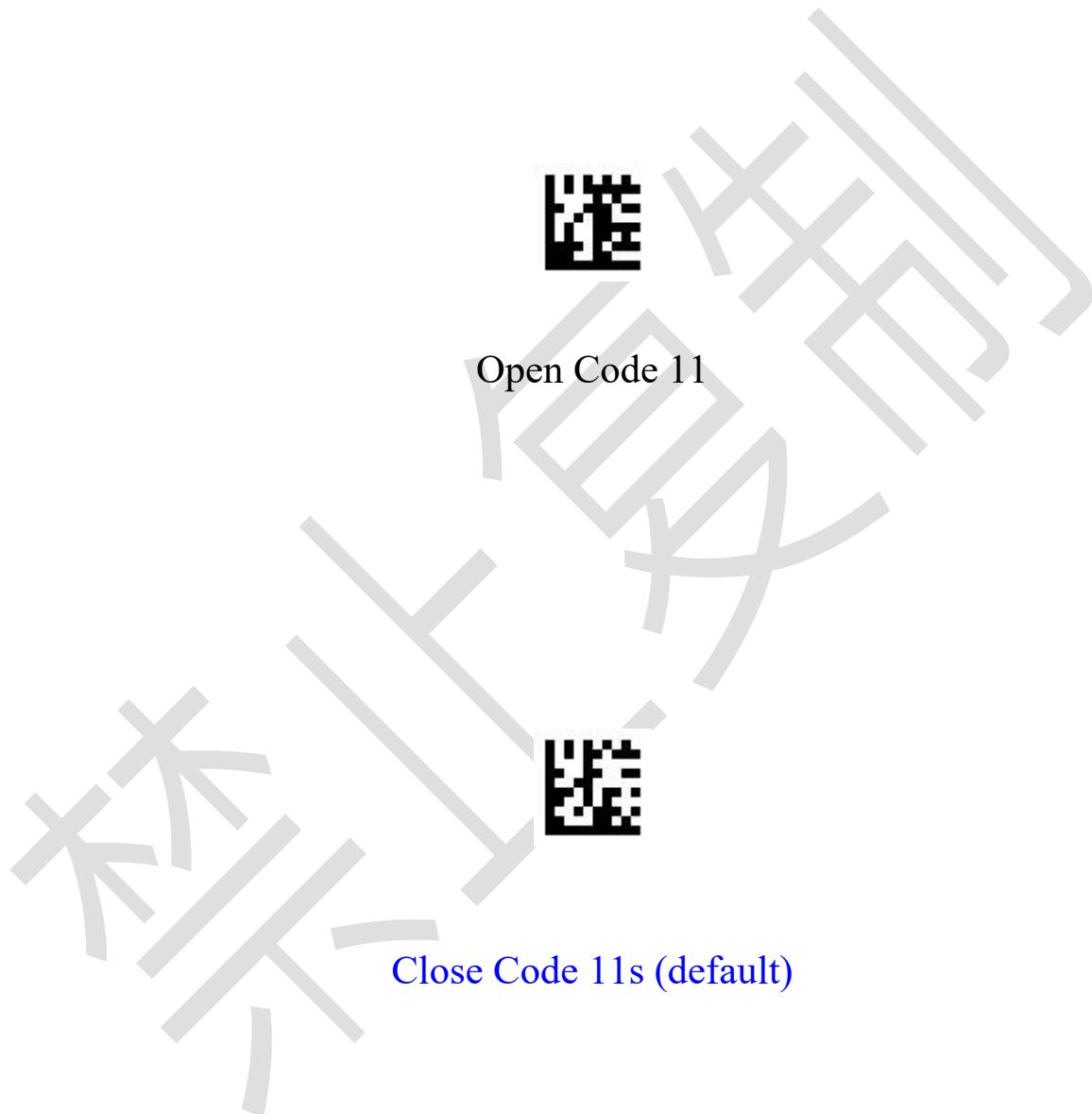


End Setting

Code 11



Start setting

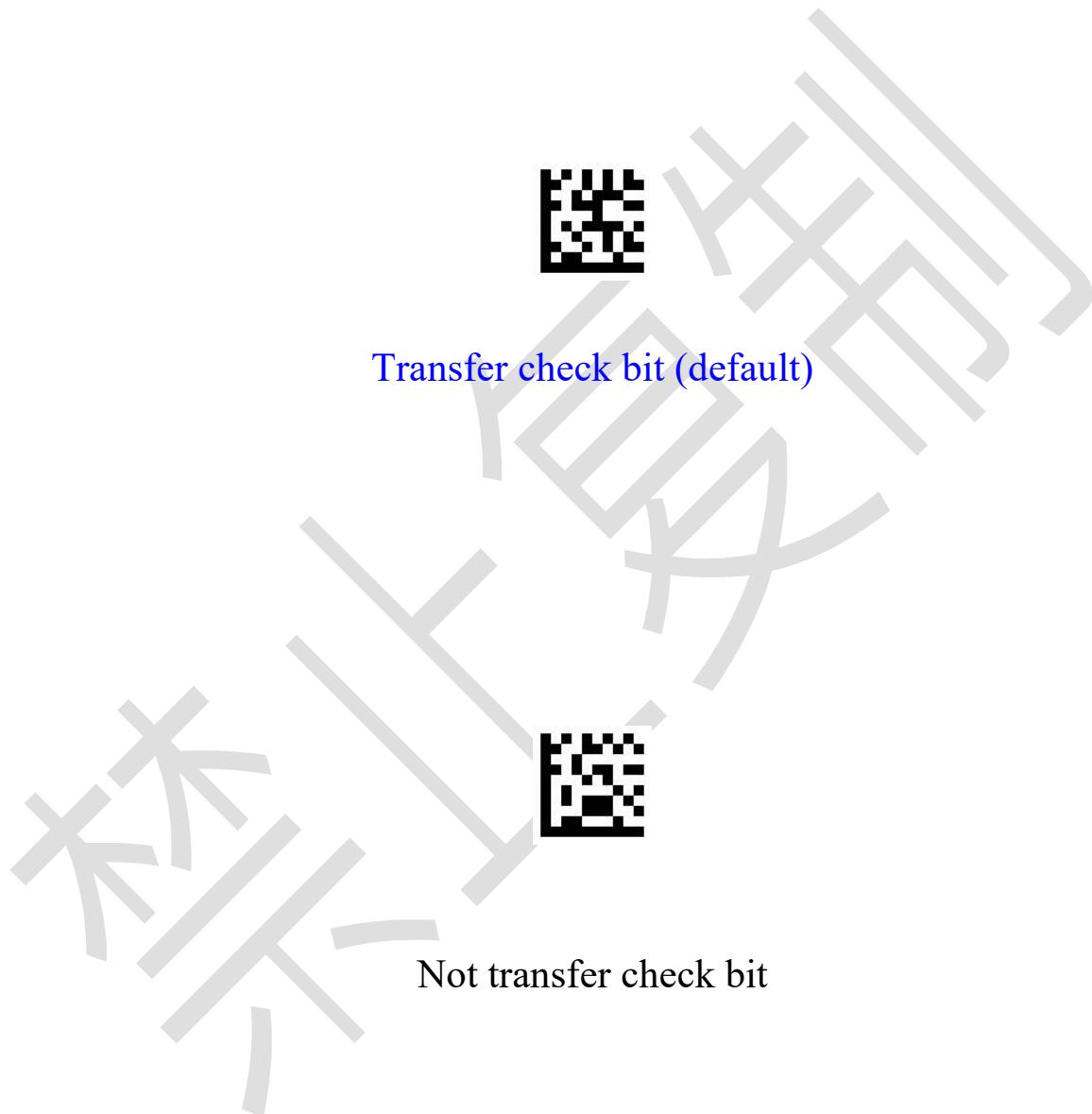


End Setting

Code 11



Start setting

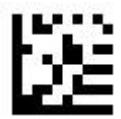


End Setting

Codabar



Start setting



Open Codabar (default)



Close codabar



End Setting

Codabar



Start setting



Not check (default)



Check and transfer

Check not transfer

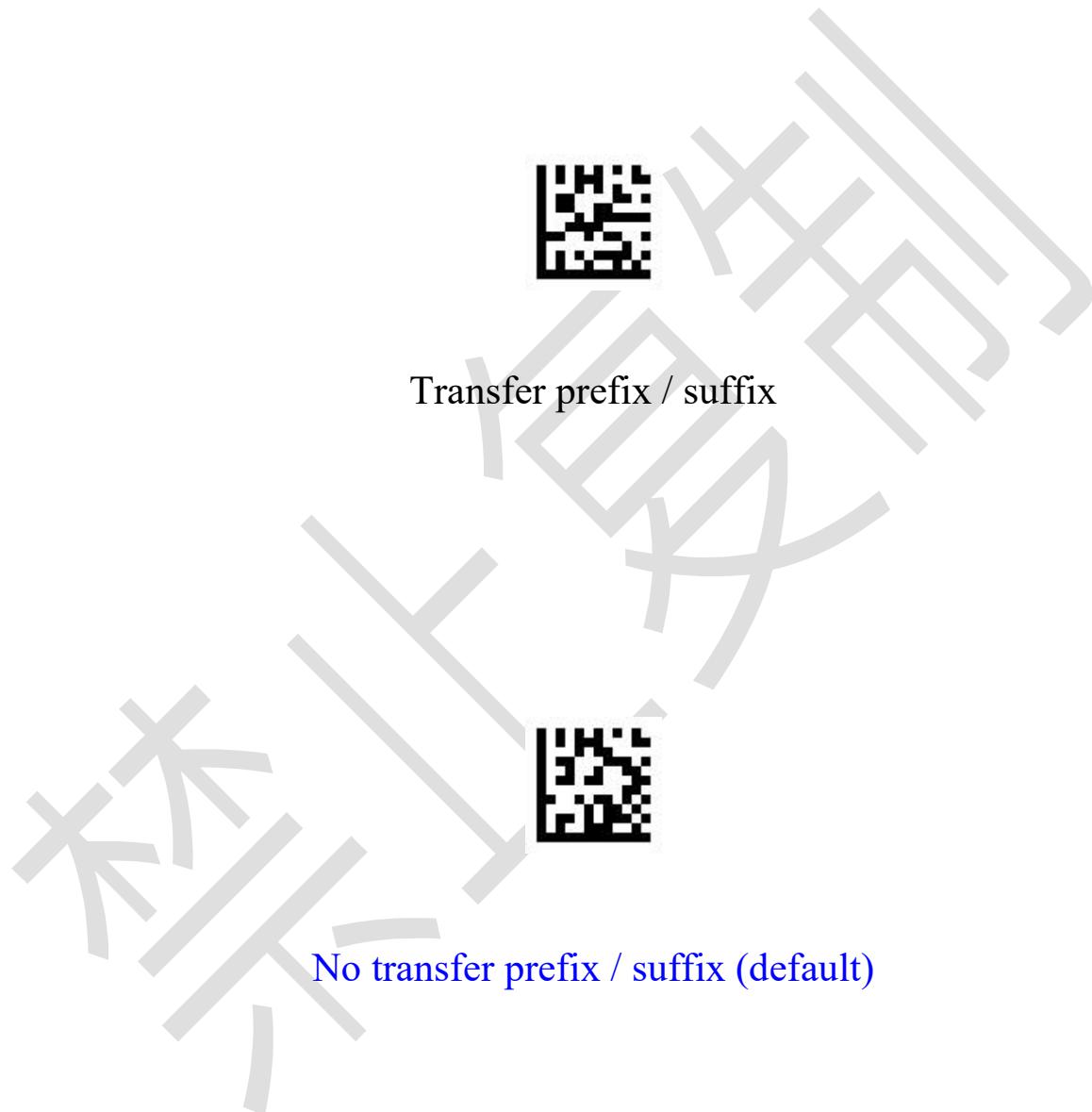


End Setting

Codabar



Start setting

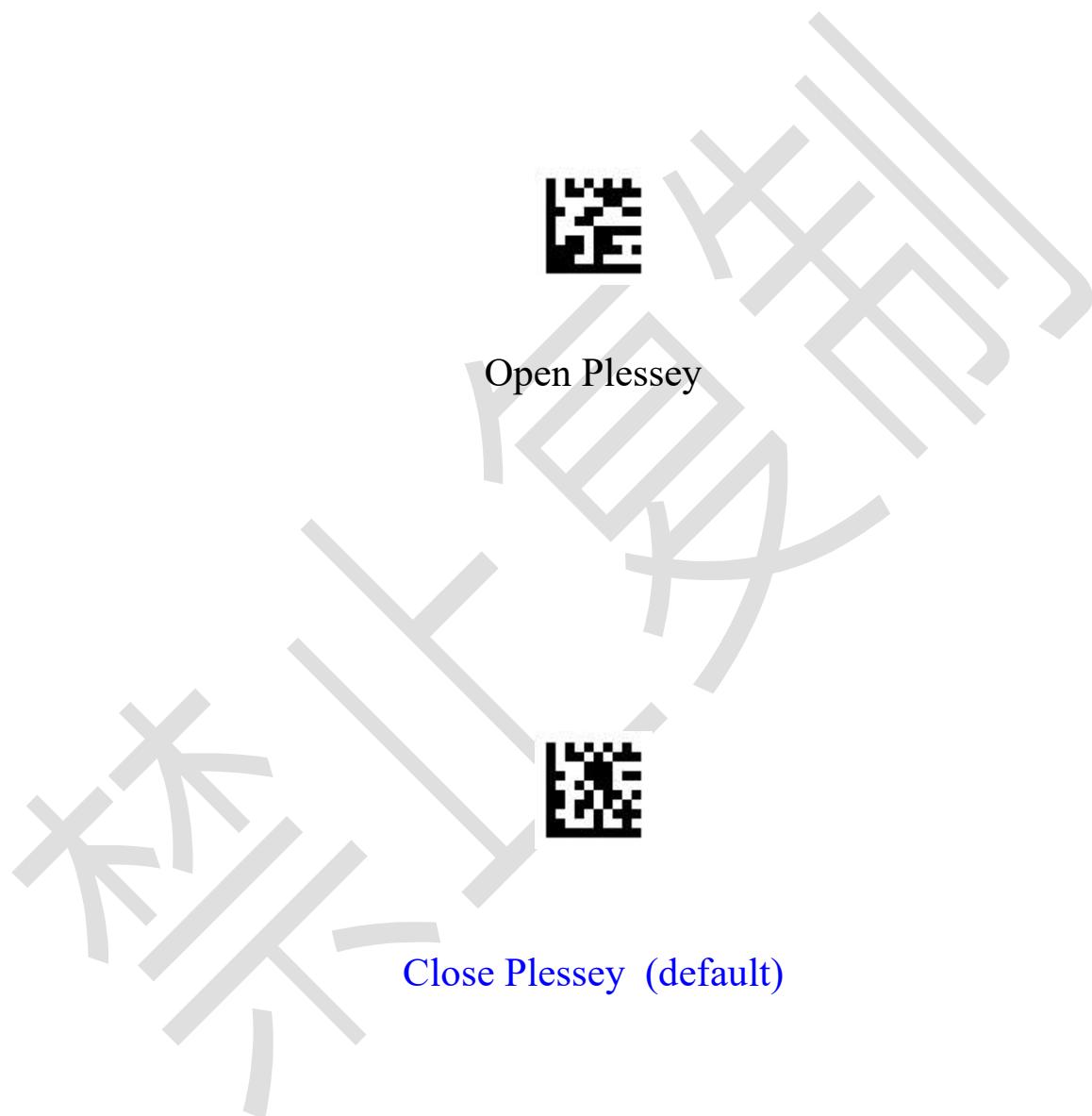


End Setting

Plessey



Start setting



End Setting

MSI Plessey



Start setting

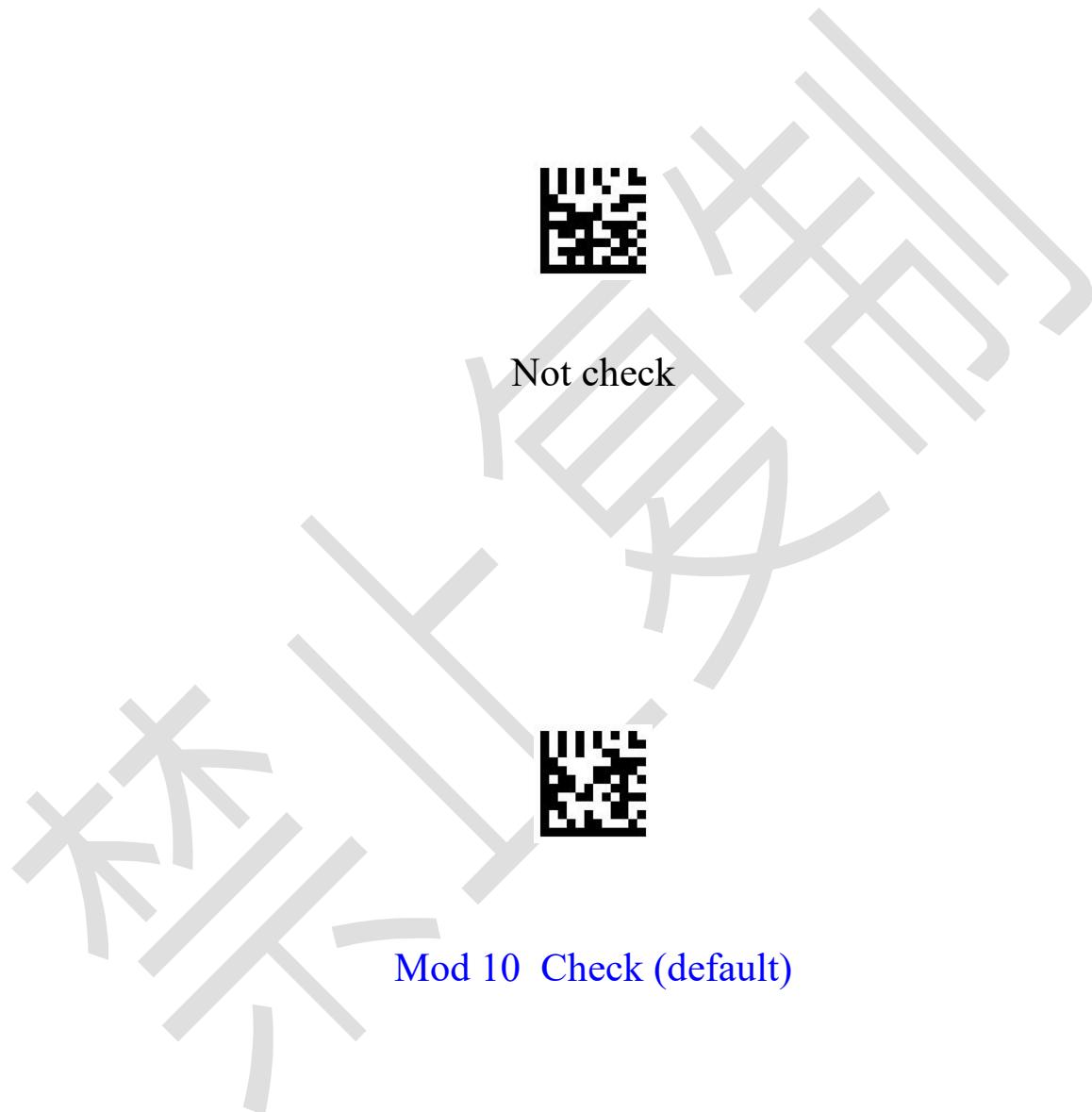


End Setting

MSI Plessey



Start setting

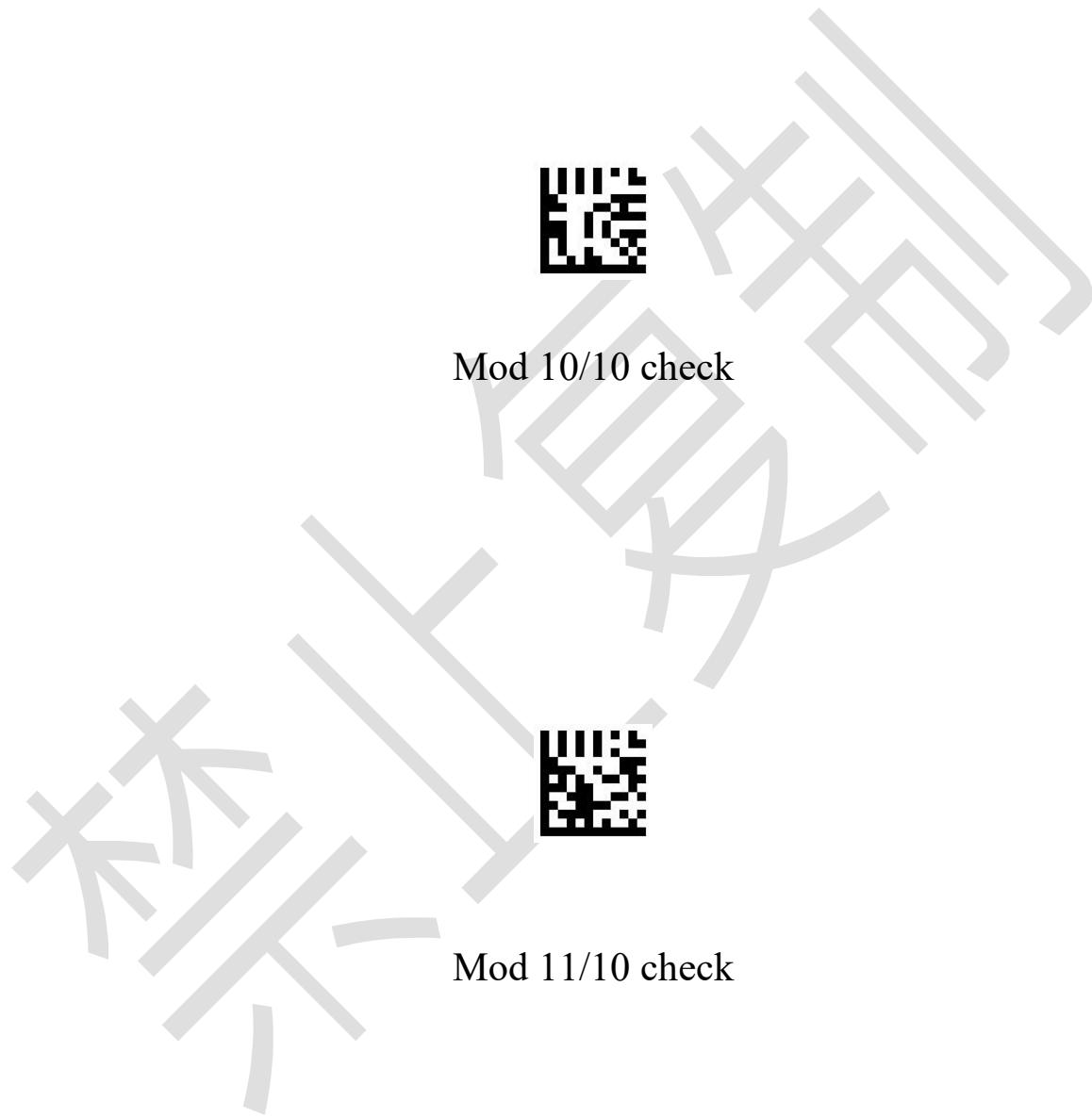


End Setting

MSI Plessey



Start setting

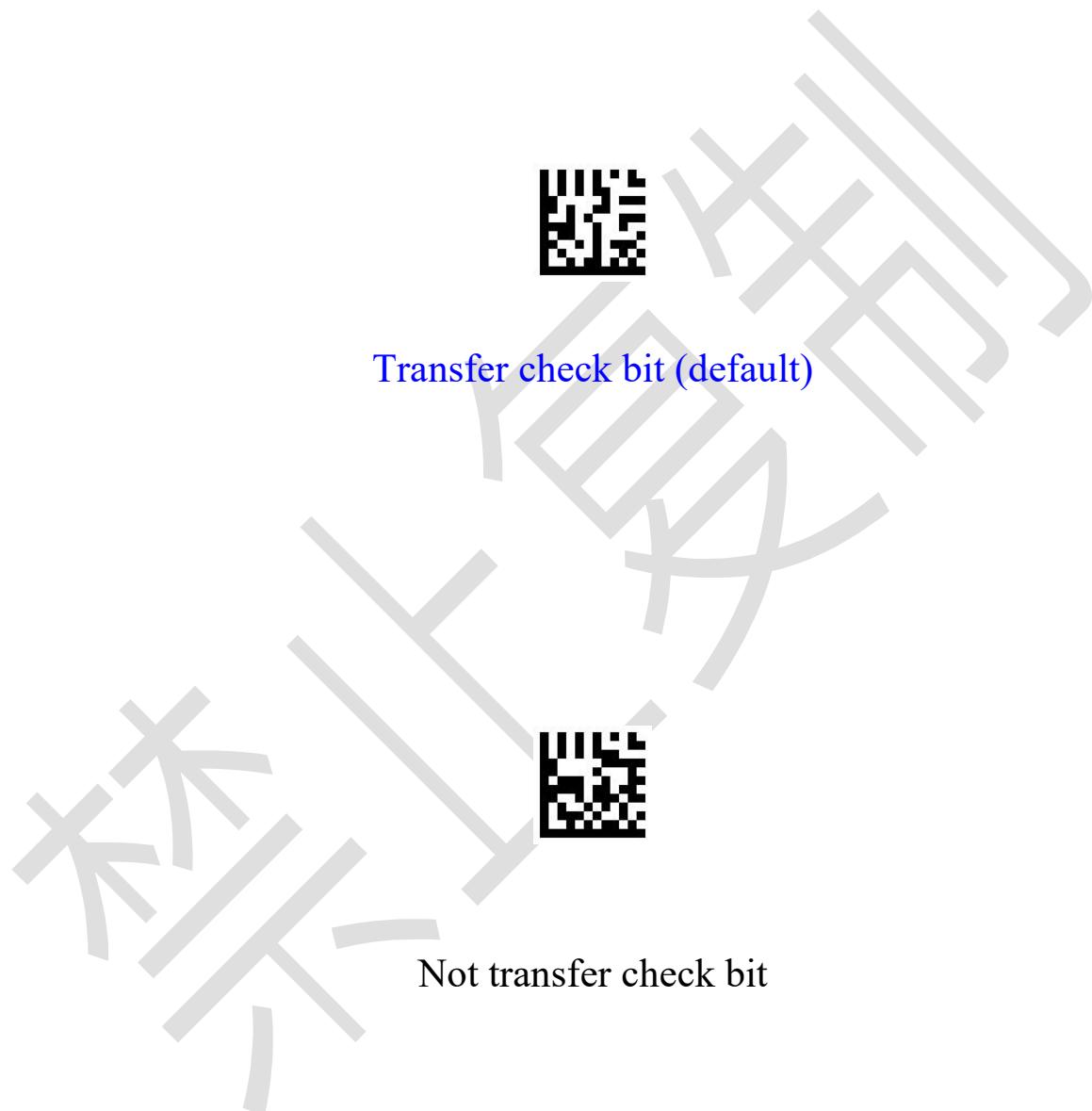


End Setting

MSI Plessey



Start setting

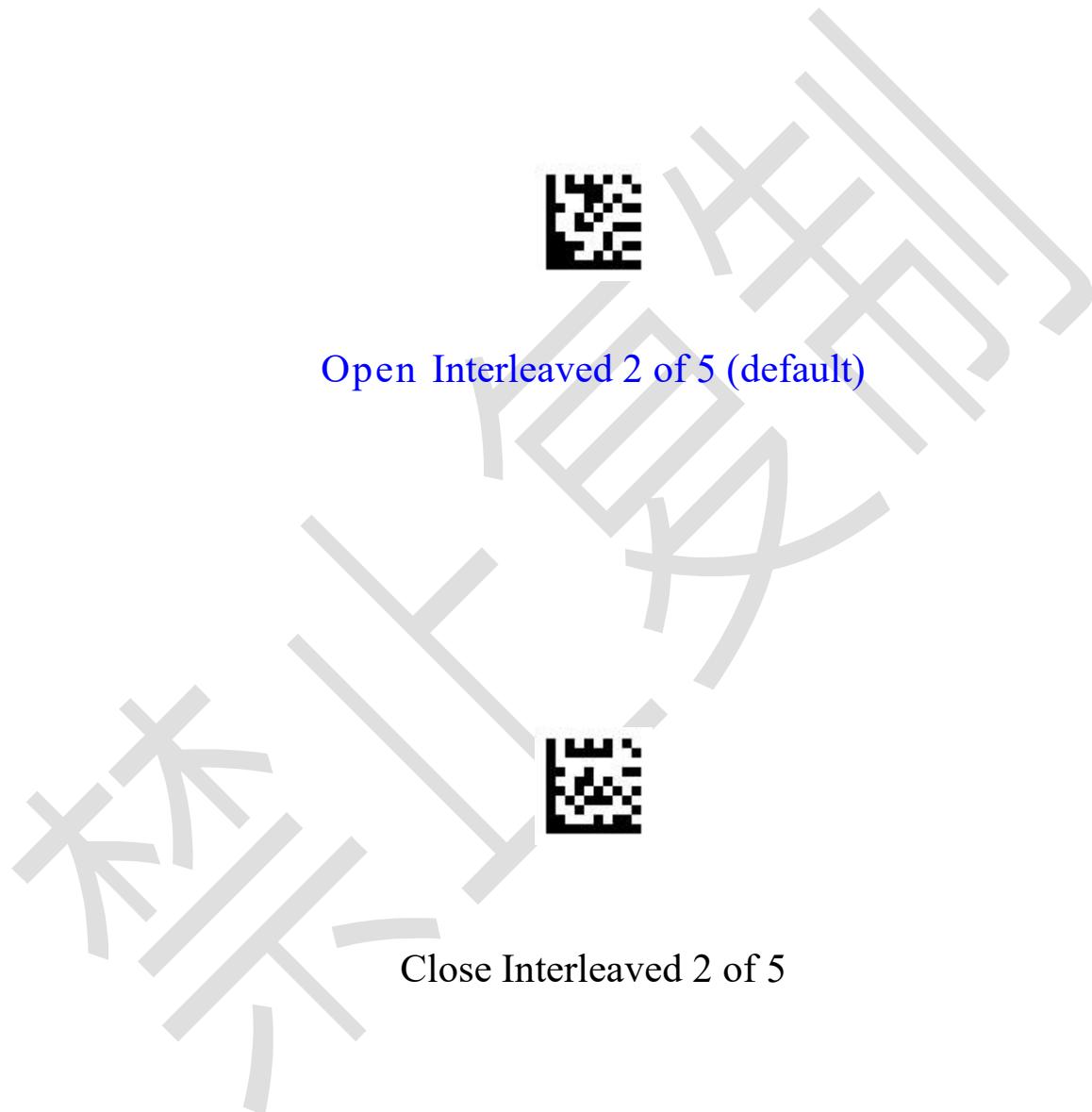


End Setting

Interleaved 2 of 5



Start setting

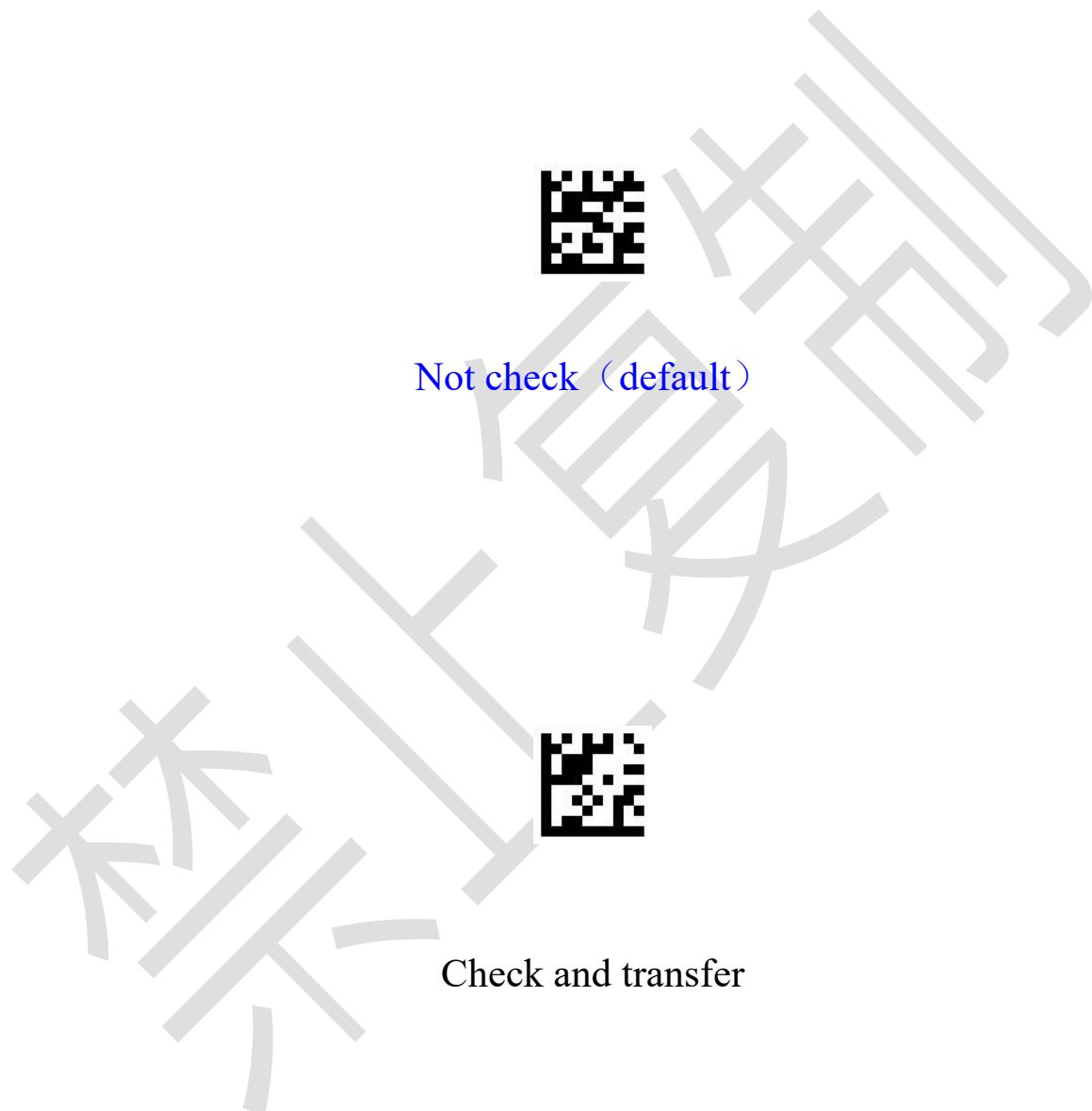


End Setting

Interleaved 2 of 5



Start setting

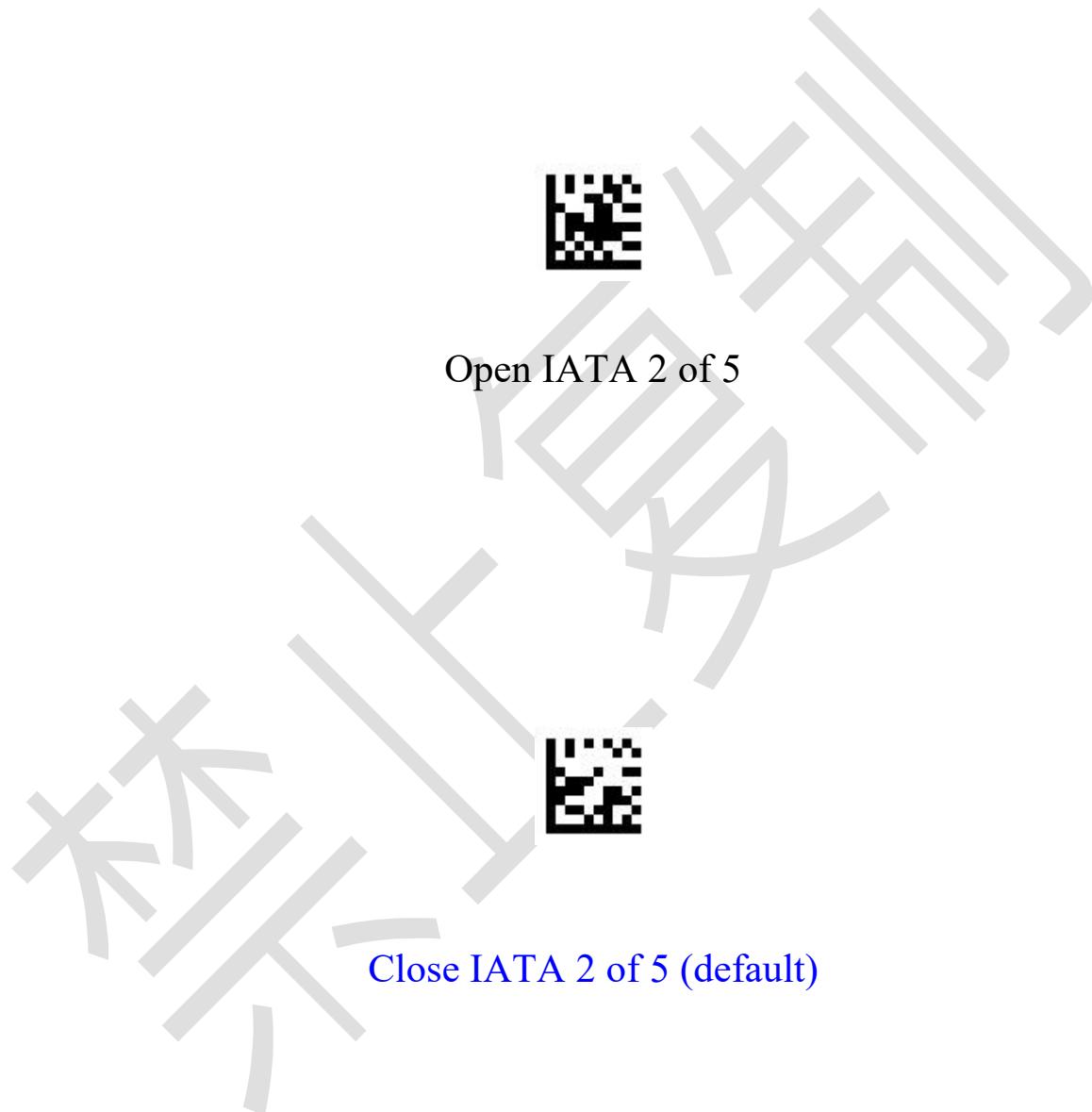


End Setting

IATA 2 of 5



Start setting

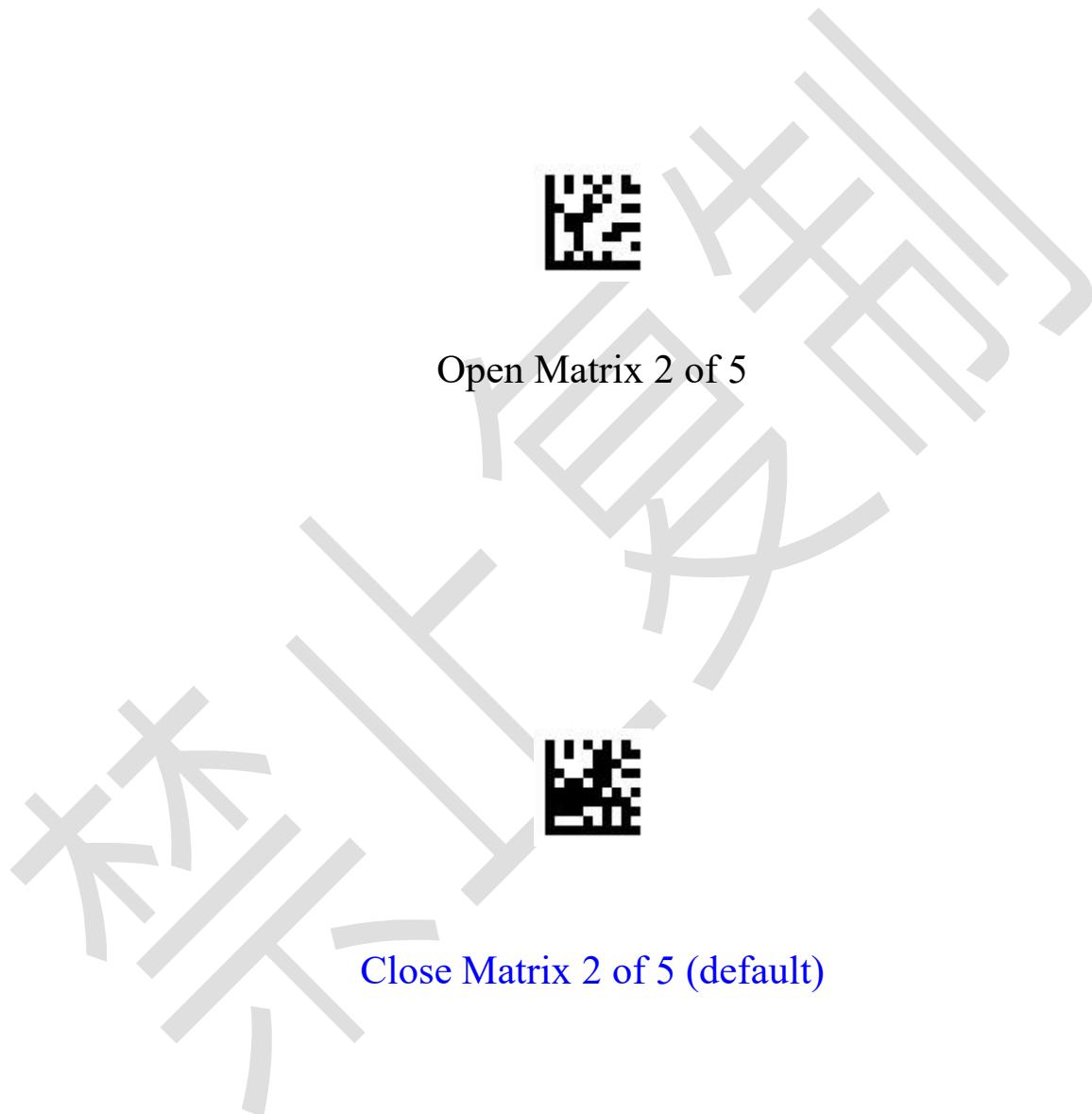


End Setting

Matrix 2 of 5



Start setting

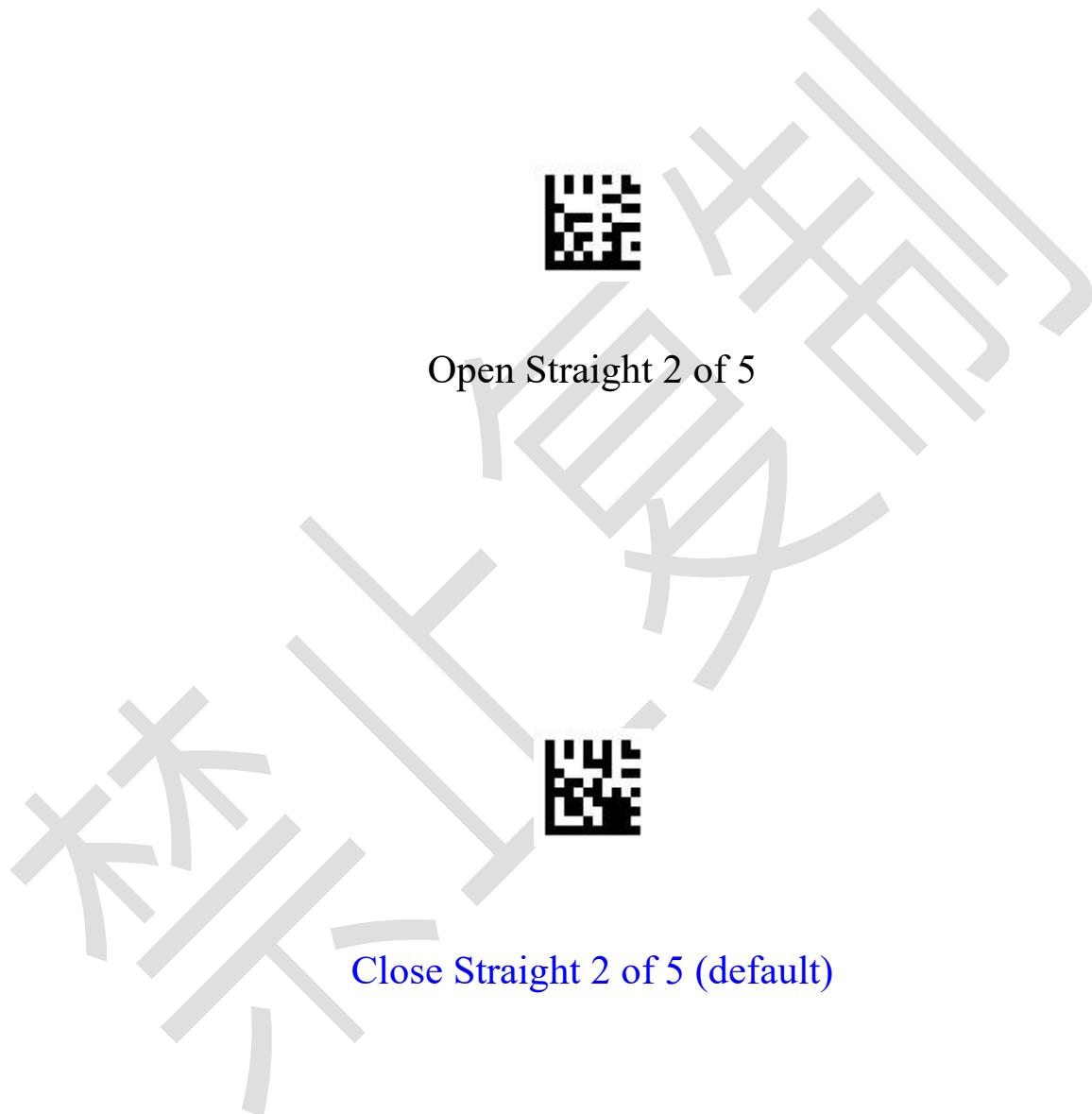


End Setting

Straight 2 of 5



Start setting

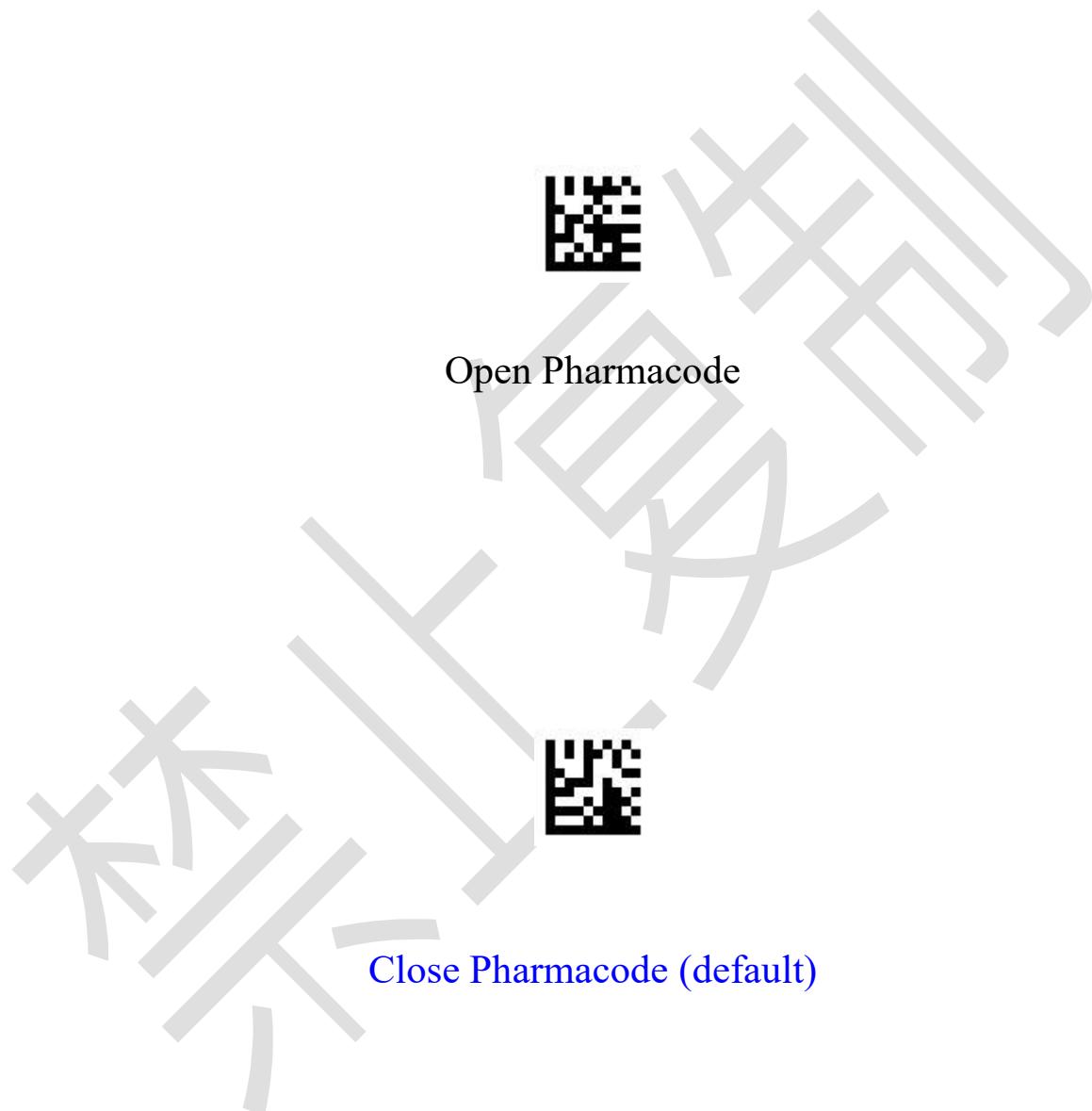


End Setting

Pharmacode



Start setting



End Setting

GS1 DataBar 14



Start setting



End Setting

GS1 DataBar 14



Start setting



Open GS1 DataBar 14 Stacked



Close GS1 DataBar 14 Stacked (default)

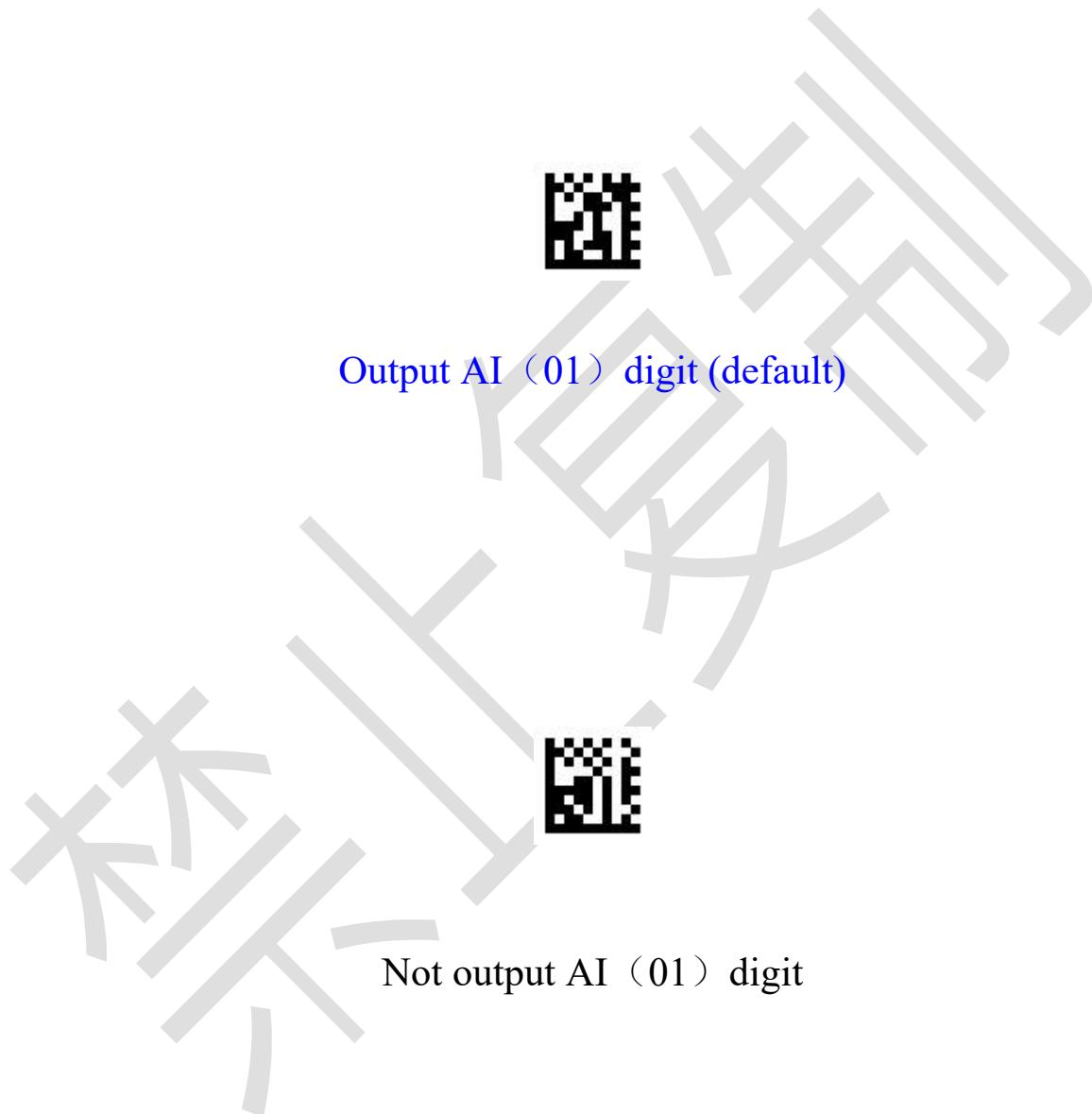


End Setting

GS1 DataBar 14



Start setting

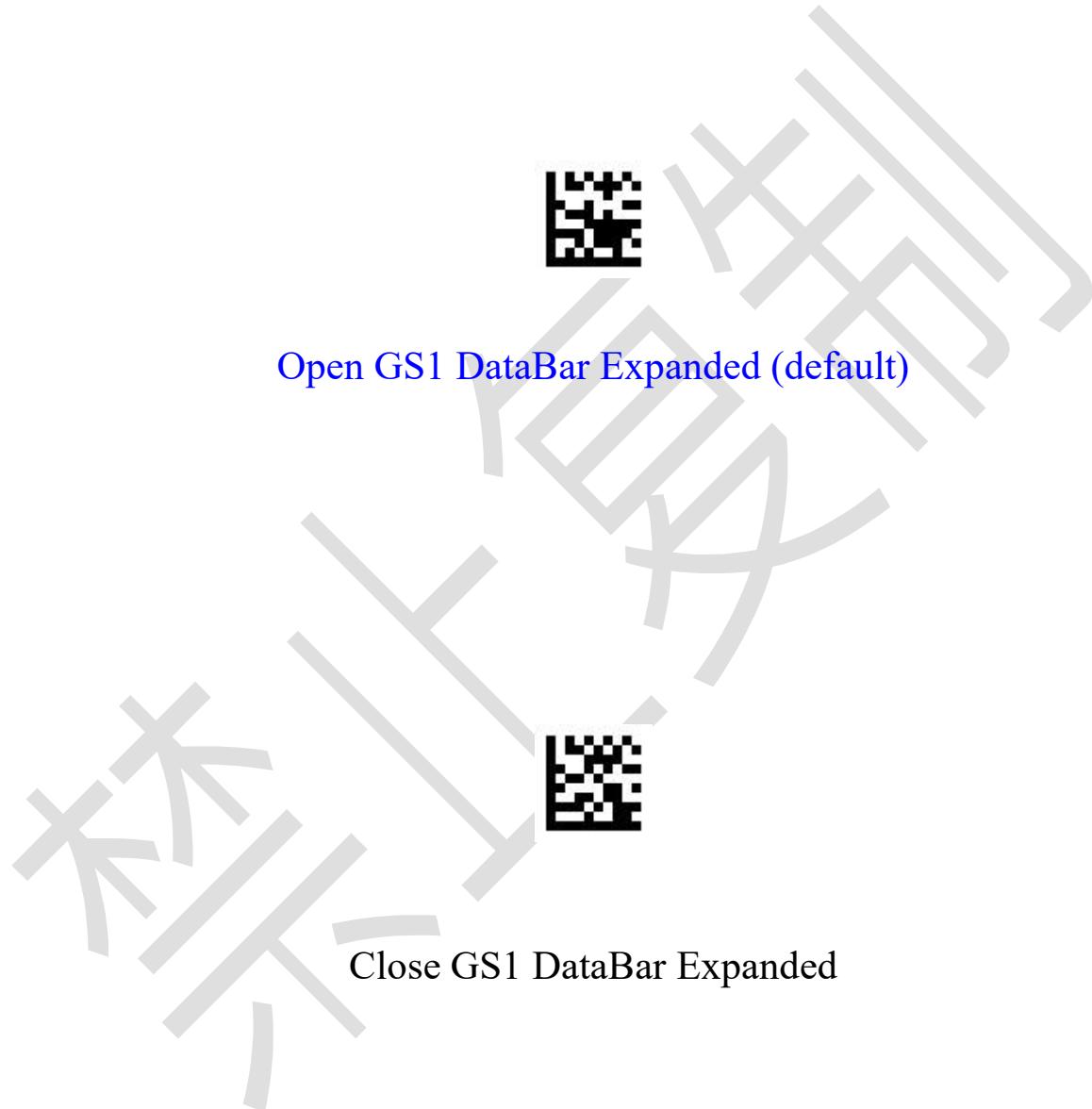


End Setting

GS1 DataBar Expanded



Start setting

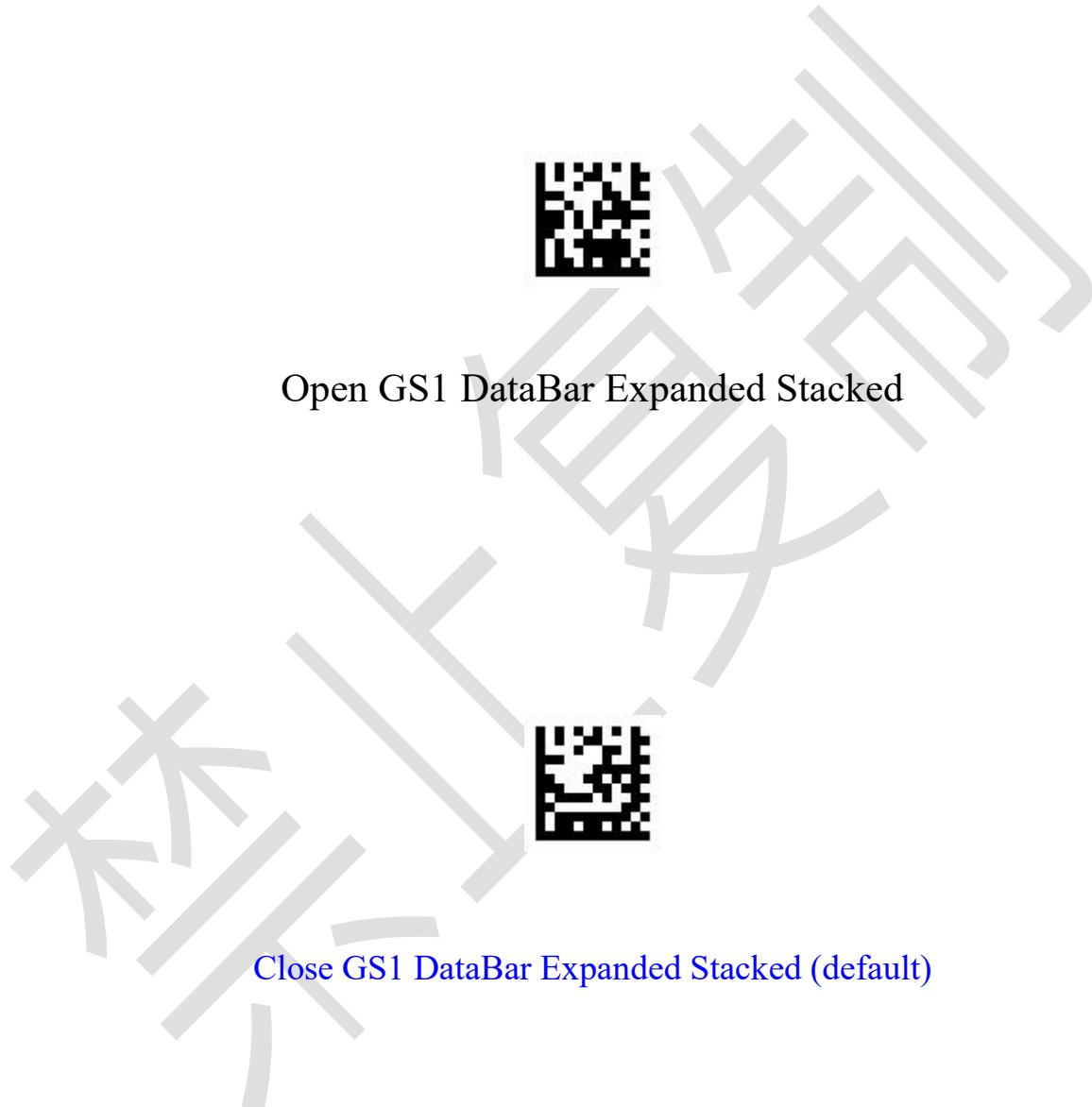


End Setting

GS1 DataBar Expanded



Start setting

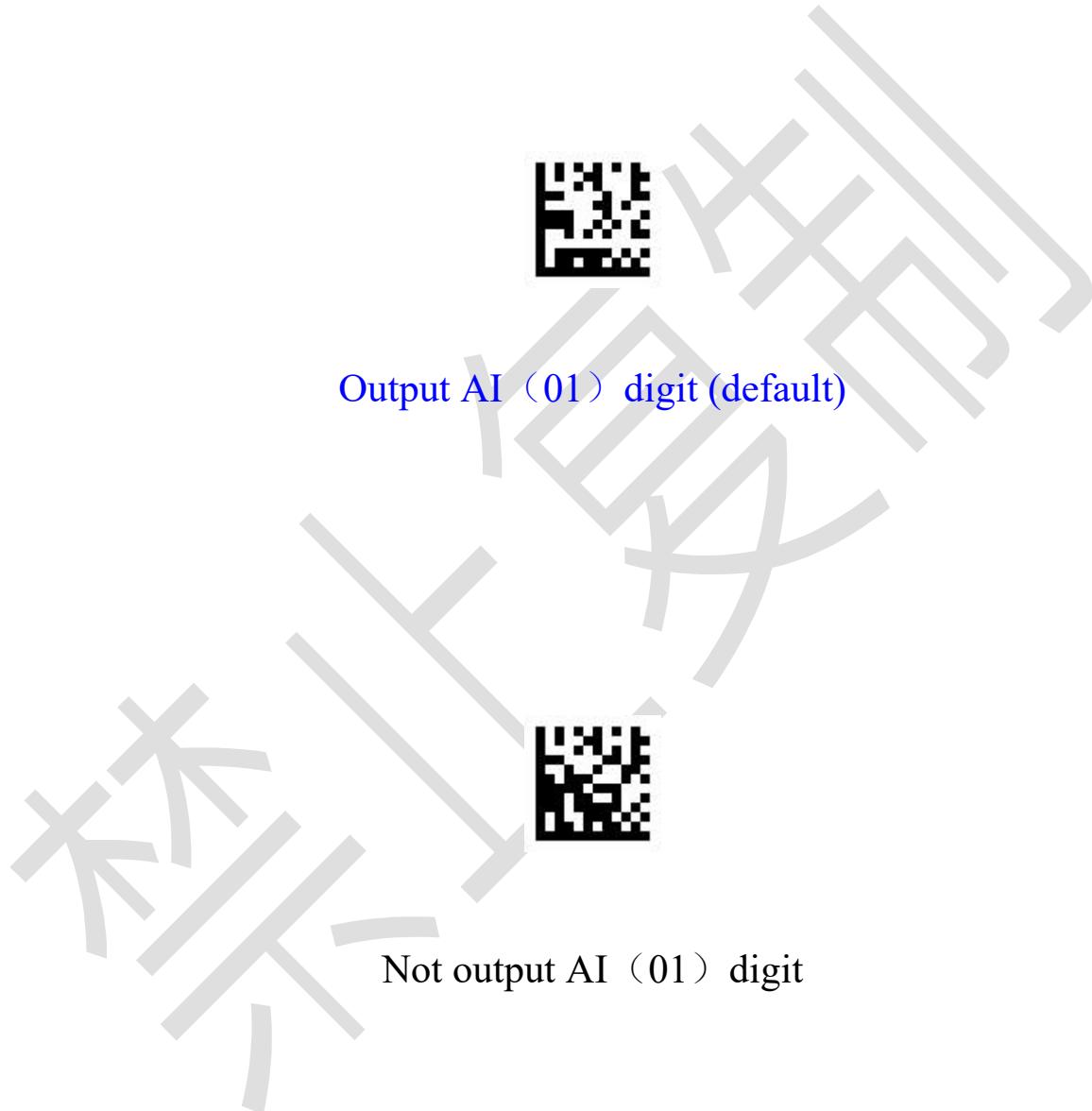


End Setting

GS1 DataBar Expanded



Start setting



End Setting

GS1 DataBar Limited



Start setting

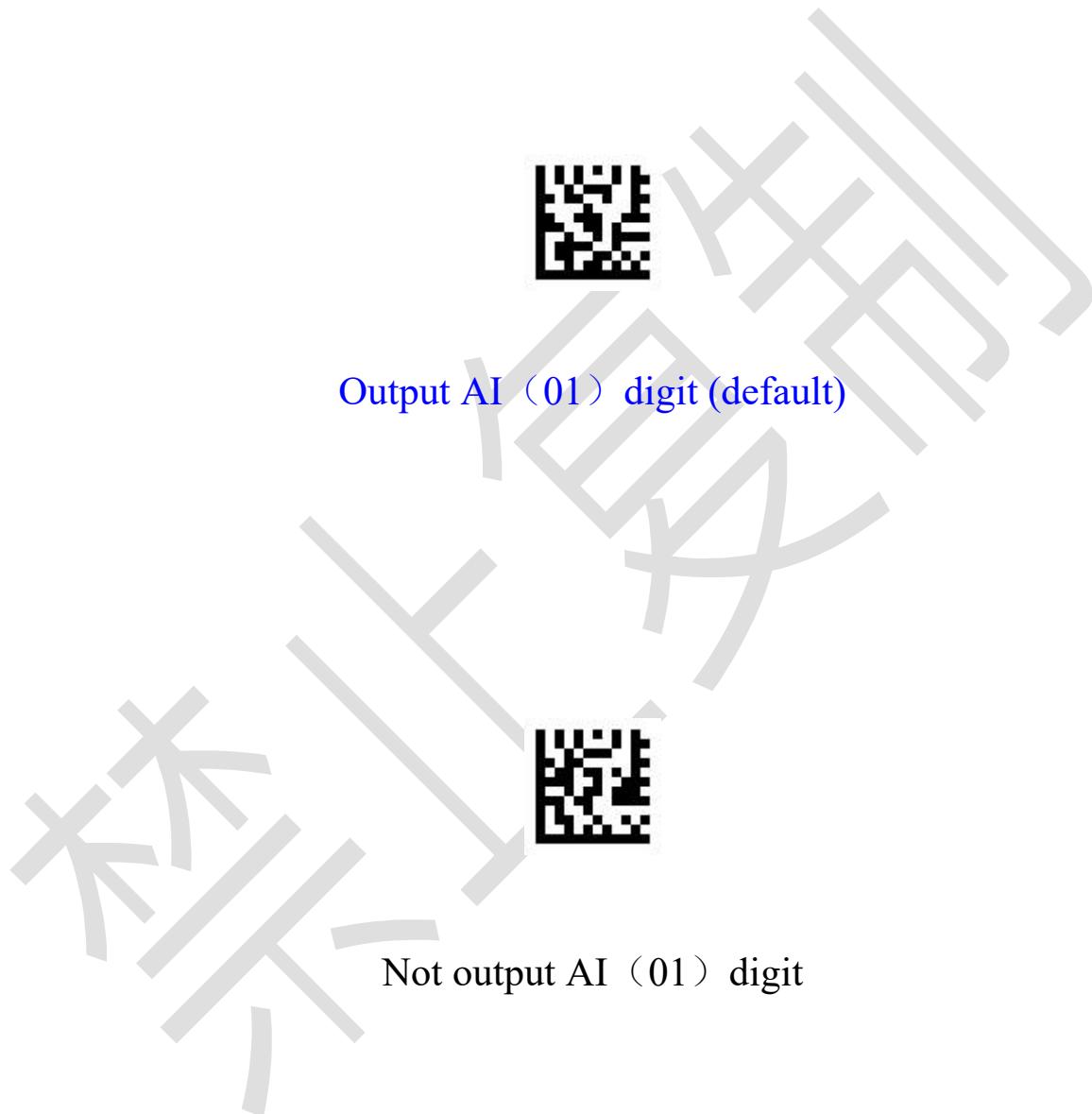


End Setting

GS1 DataBar Limited



Start setting

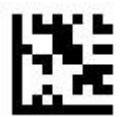


End Setting

Composite Code-A



Start setting



Open Composite Code-A



Close Composite Code-A (default)

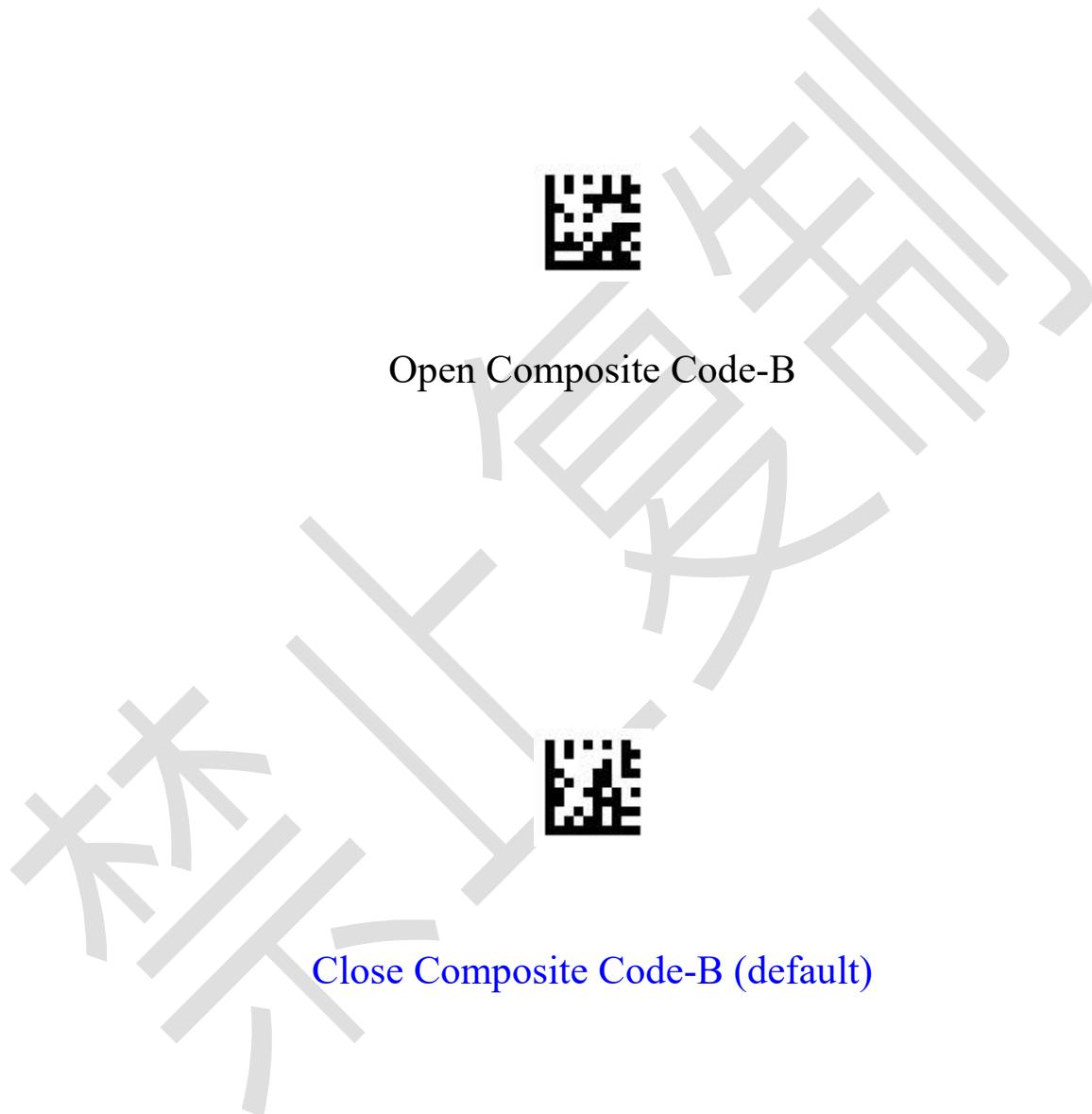


End Setting

Composite Code-B



Start setting



Close Composite Code-B (default)

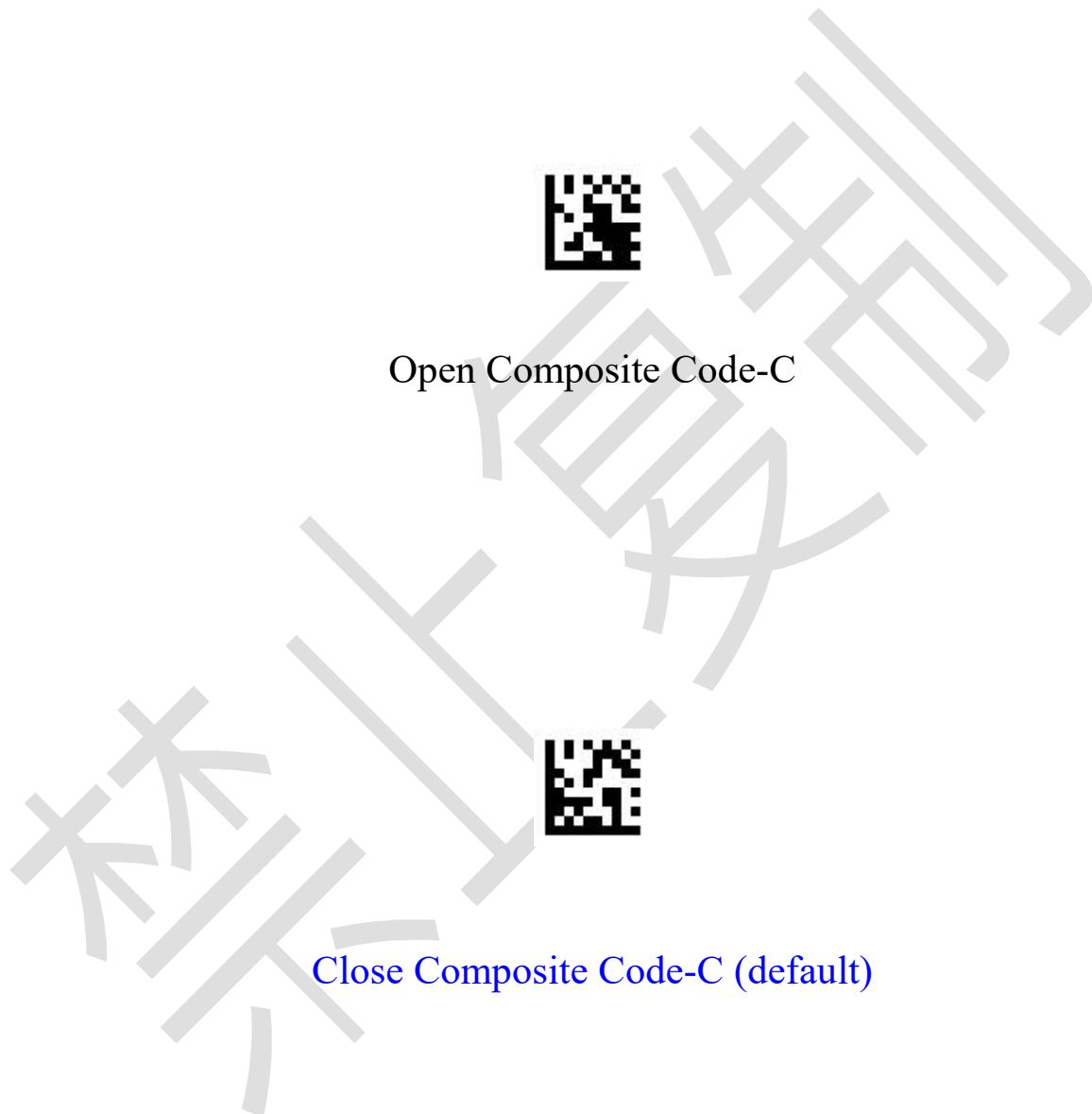


End Setting

Composite Code-C



Start setting

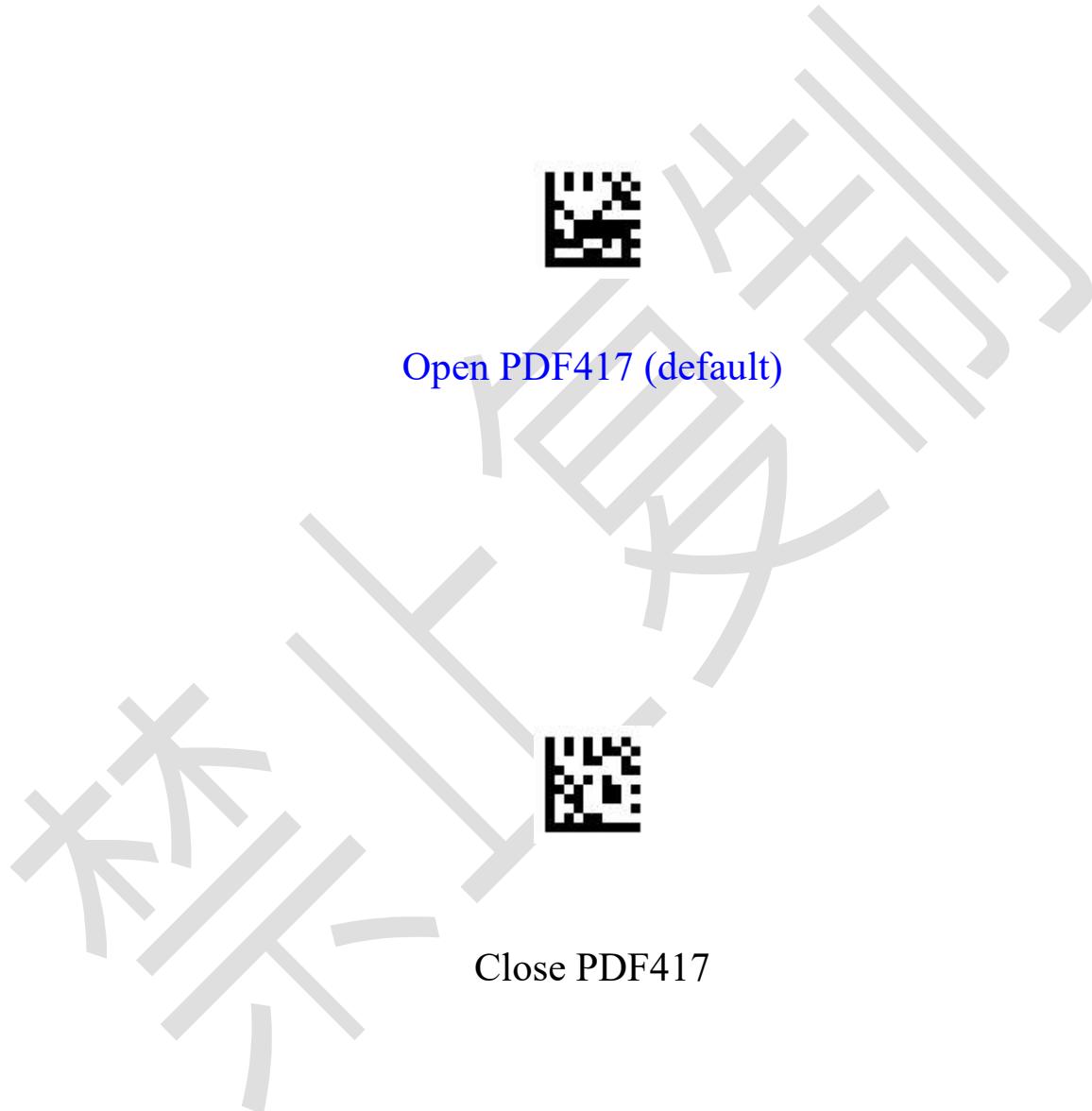


End Setting

PDF417



Start setting

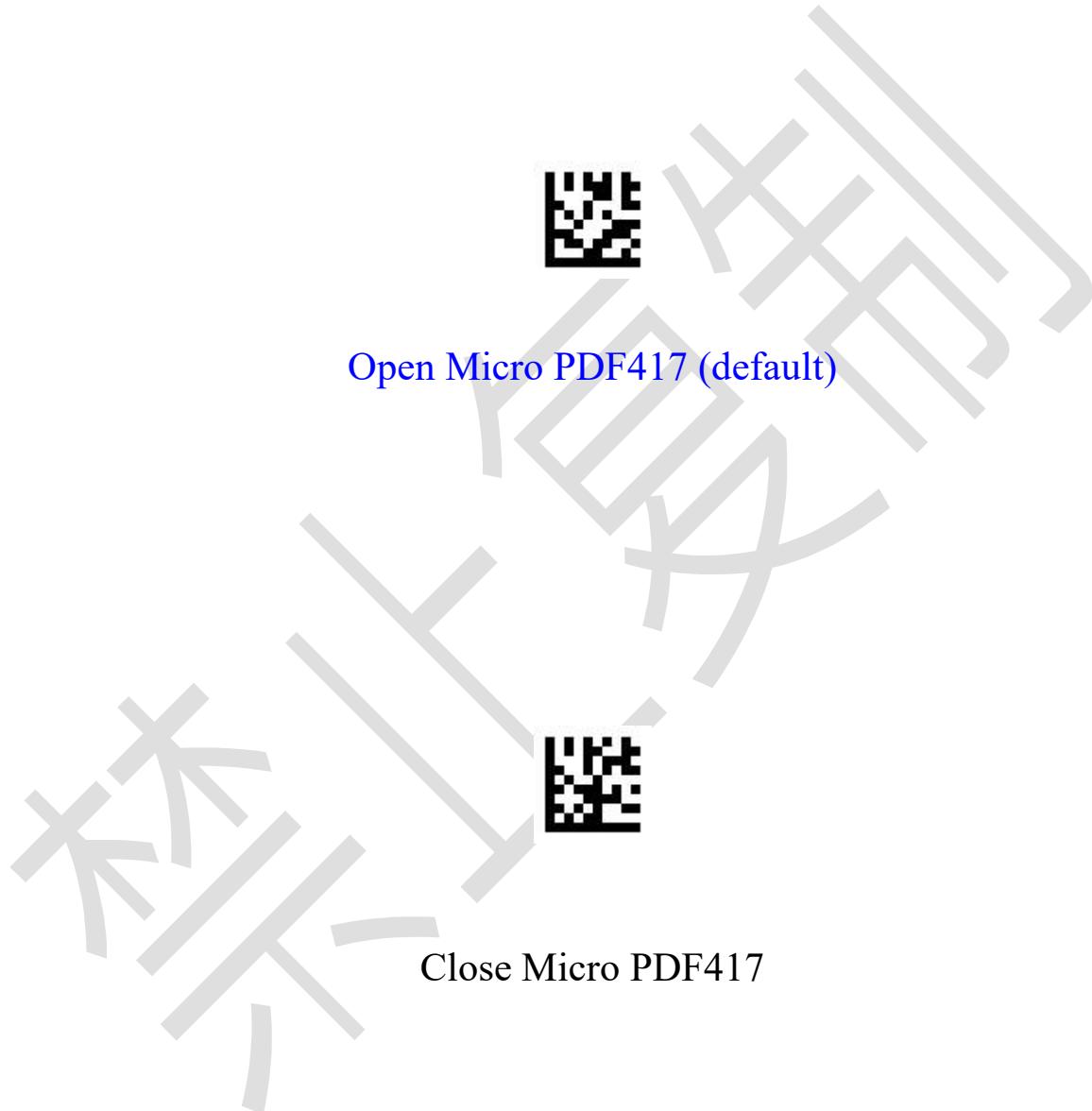


End Setting

Micro PDF417



Start setting



End Setting

Data Matrix



Start setting



Open Data Matrix (default)



Close Data Matrix



End Setting

Data Matrix



Start setting



End Setting

Data Matrix



Start setting

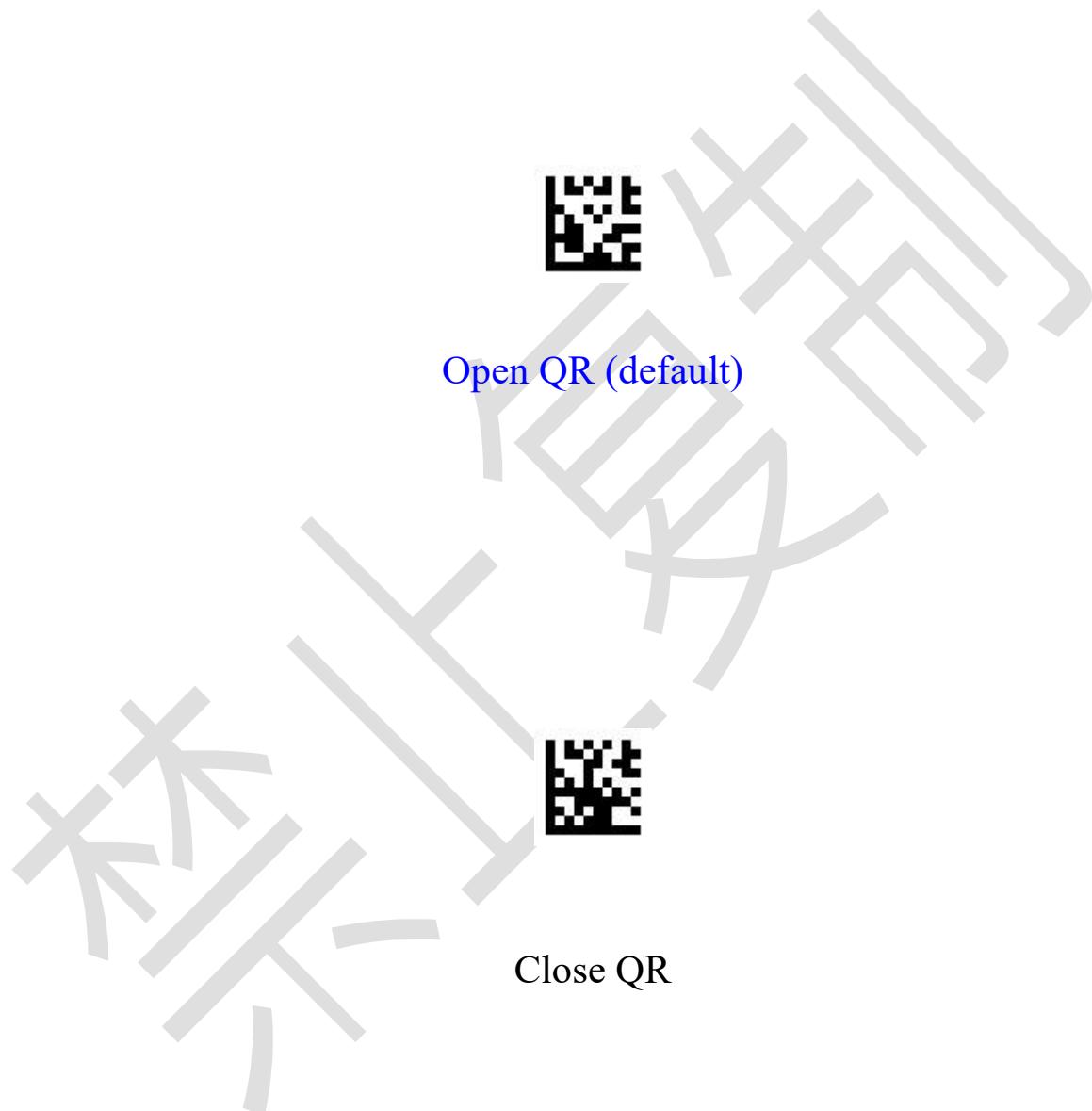


End Setting

QR



Start setting



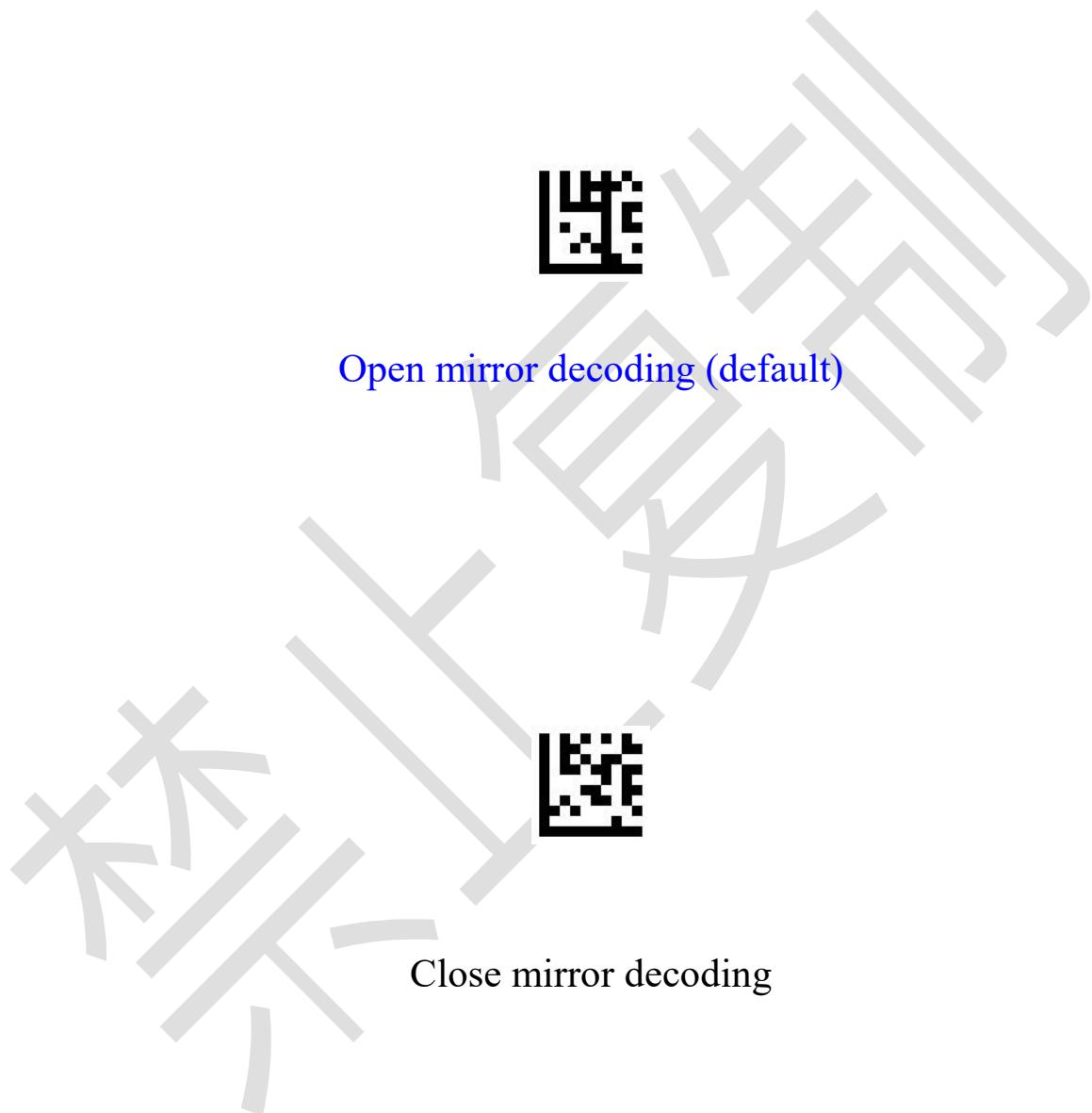
End Setting



QR



Start setting



End Setting

Micro QR



Start setting



End Setting

Aztec



Start setting

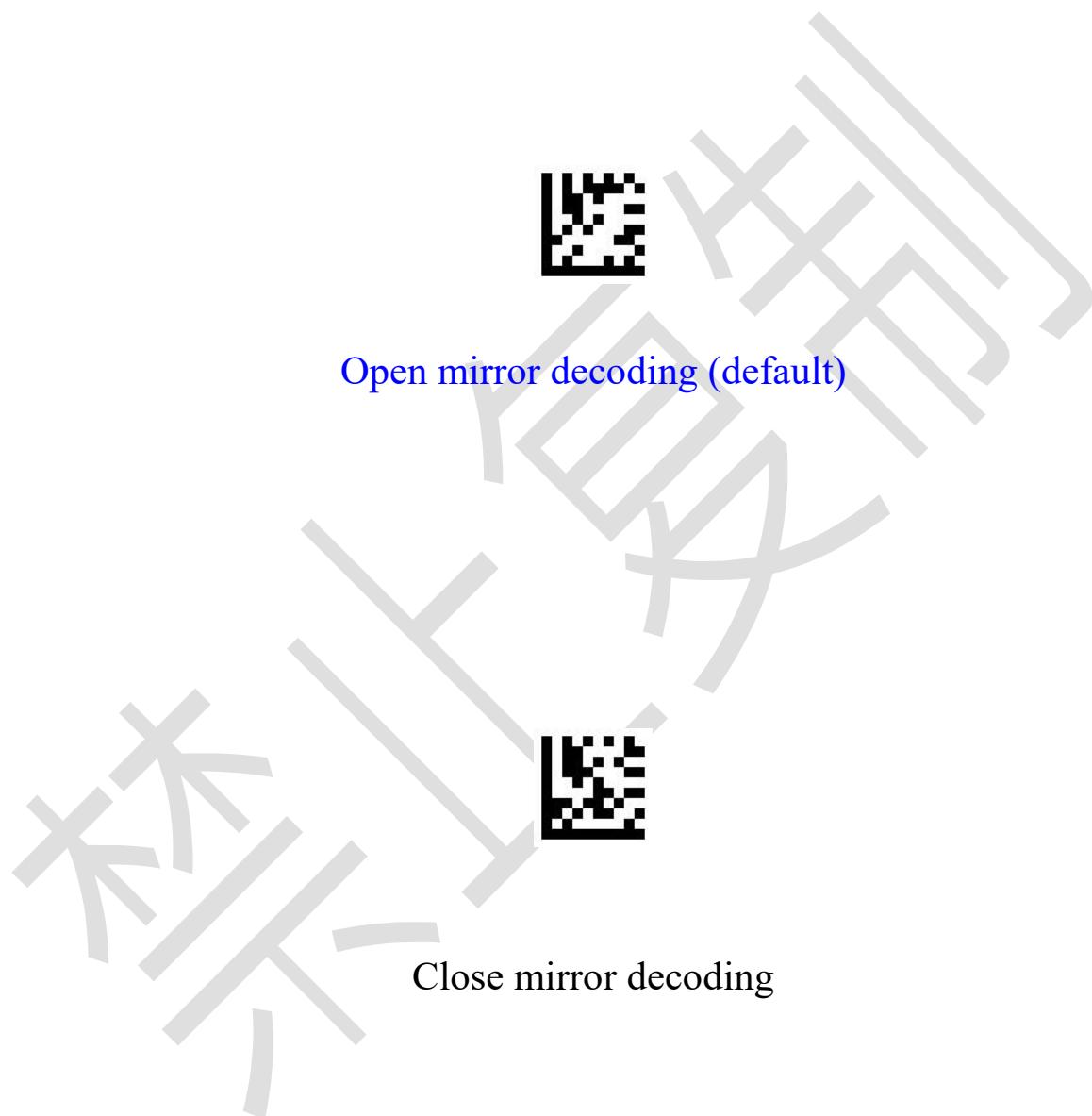


End Setting

Aztec



Start setting

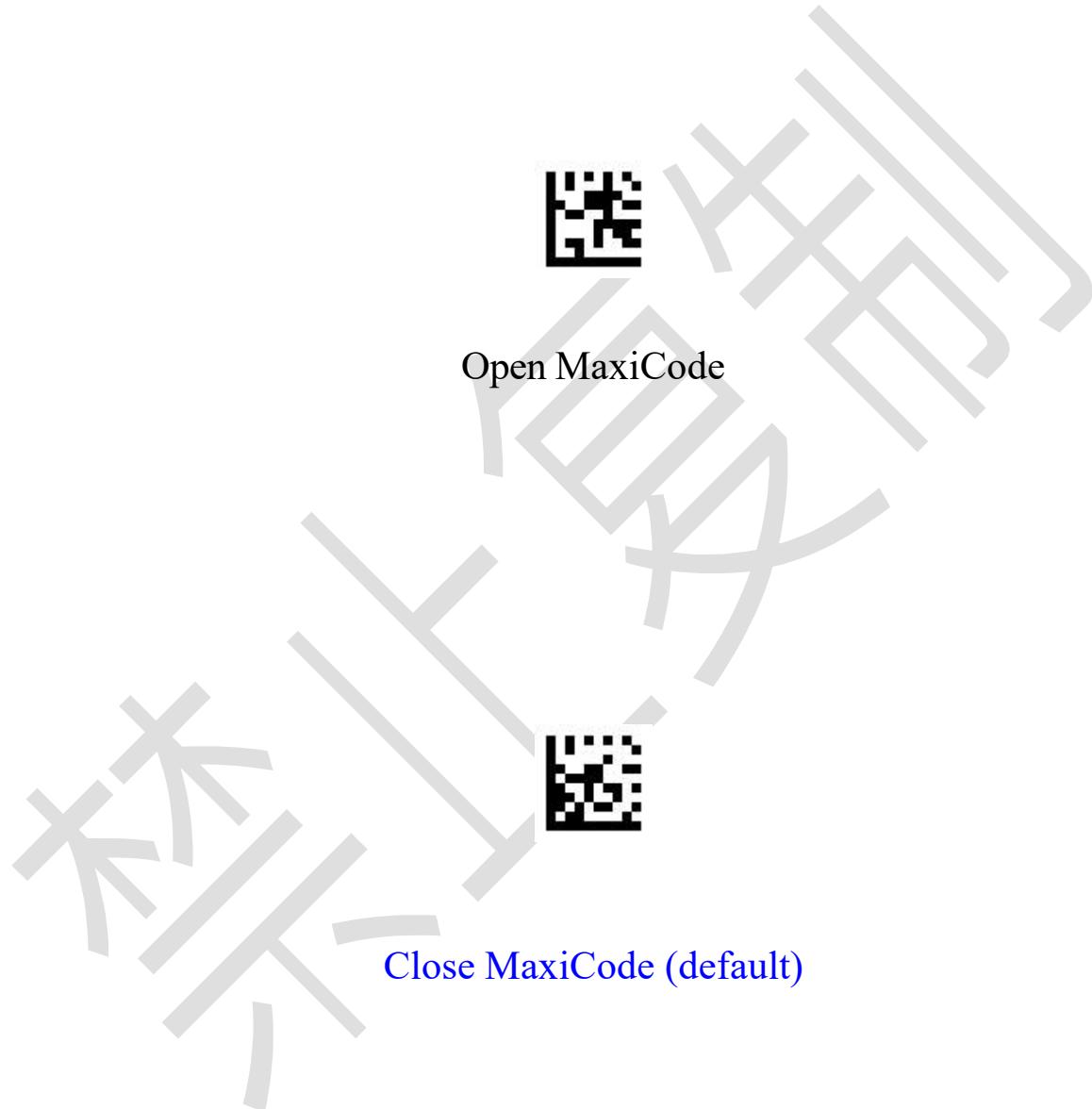


End Setting

MaxiCode



Start setting



End Setting

Decoding length setting

- **Limit single length**

Set the example:

Limit reading of a single length barcode, such as a code 128 code with a read length of 14 elements

1. Scan start setting
2. Scan code 128 to limit a single length setting code
3. Scan ASCII Code table, digital 1 barcode
4. Scan ASCII Code table, digital 4 barcode
5. Scan End Setting

- **Limit two different lengths**

Set example:

Limit the reading of two barcodes of different lengths, such as setting a code 128 code with a read length of 2 word elements and 14 word elements

1. Scan start setting
2. Scan the code 128 to limit the two different length setting codes
3. Scan the ASCII Code table, the digital 0 barcode
4. Scan the ASCII Code table, digital 2 barcode
5. Scan the ASCII Code table, digital 2 barcode
6. Scan the ASCII Code table, digital 4 barcode
7. Scan for the end setting

Limit length range

Set example:

Limit barcodes within read lengths, such as code 128 codes with a read length of 8-14 elements

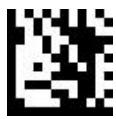
1. Scan start setting
2. Scan the code 128 to limit the length range setting code
3. Scan ASCII Code outside,figure 0 barcode
4. Scan ASCII Code outside,figure 8 barcode
5. Scan ASCII Code outside,figure 1 barcode
6. Scan ASCII Code outside,figure 4 barcode
7. Scan end setting

• Random length

Set example:

1. Scan start setting
2. Scan the code 128 with an arbitrary length set code
3. Scan end Setting

Code 128 decoding length setting



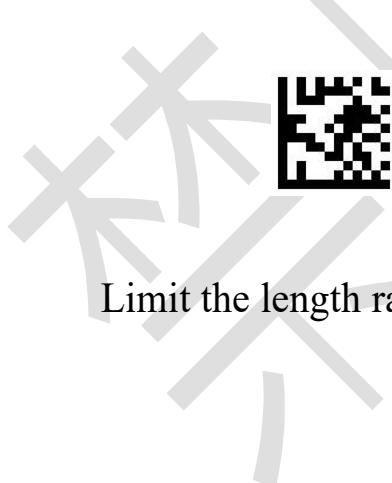
Start setting



Limit a single length



Limits two different length



Limit the length range



Random length (default)



End Setting

Code 39 decoding length setting



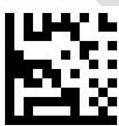
Start setting



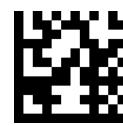
Limit a single length



Limit two different length



Limit the length range



Random length (default)



End Setting

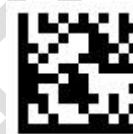
Code 93 decoding length setting



Start setting



Limit a single length



Limit two different length



Limit the length range



Random length (default)



End Setting

Codabar decoding length setting



Start setting



Limit a single length



Limit two different length



Limit the length range



Random length (default)



End Setting

Interleaved 2 of 5 decoding length setting



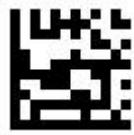
Start setting



Limit a single length



Limit two different length



Limit the length range



Random length (default)

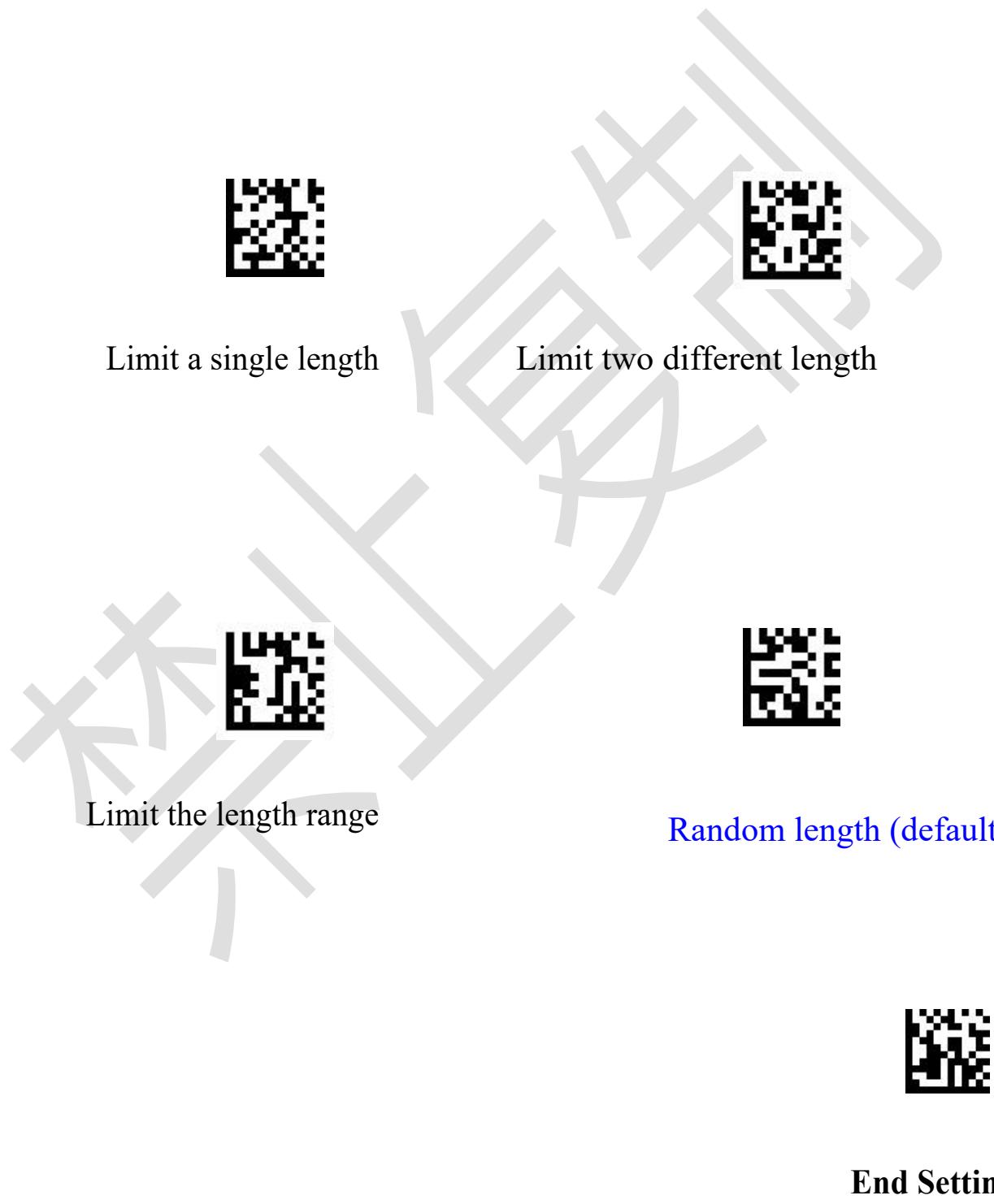


End Setting

Code 11 decoding length setting



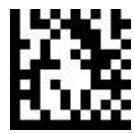
Start setting



MSI Plessey decoding length setting



Start setting



Limit a single length



Limit two different length



Limit the length range

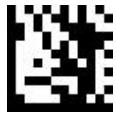


Random length (default)



End Setting

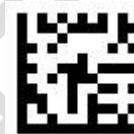
Matrix 2 of 5 decoding length setting



Start setting



Limit a single length



Limit two different length



Limit the length range



Random length (default)



End Setting

Data edition

Output format

The following is the data output format

Barcode message(4 bytes)	Prefix(4 bytes)	AIM ID	Barcode content	Suffix(4 bytes)	Suffix(1 byte)
--------------------------	-----------------	--------	-----------------	-----------------	----------------

Barcode message

- 1、The default output does not output the barcode messages
- 2、Open and Close barcode message output by serial port command and barcode scanning
- 3、Serial mode is supported, not USB keyboard

The format is defined as follows:

leading flag 0x03 (1 byte)	Barcode system code (1 byte) hexadecimal	Barcode length (2 bytes) 0x0001 ~0xFFFF
----------------------------	--	---

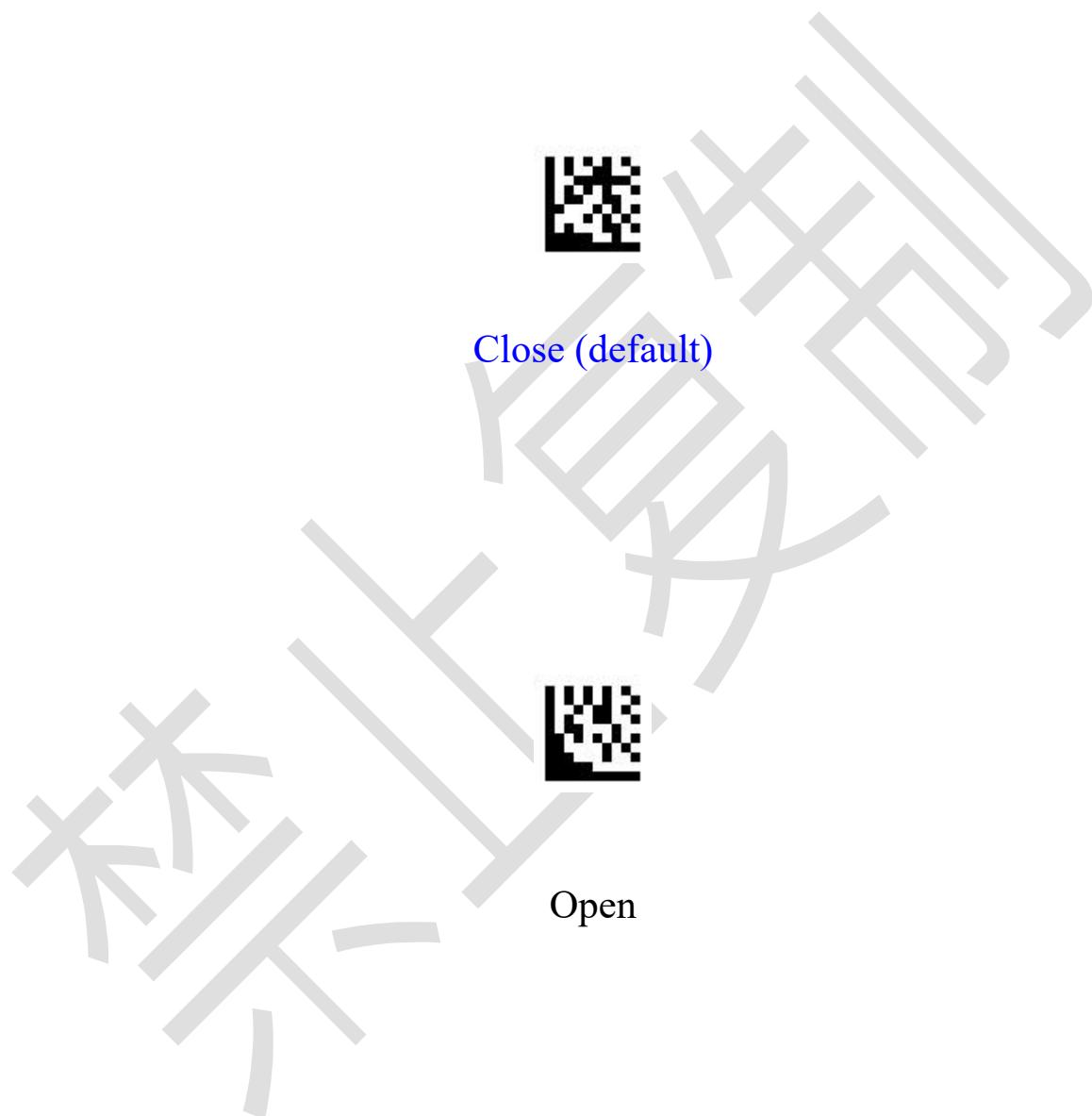
The barcode code system code is as follows:

Code	2D	Code	1D	Code	1D
0x 41	PDF417	0x61	UPC A	0x71	Pharmacode
0x 42	Micro PDF417	0x 62	UPC E	0x72	GS1 DataBar 14
0x 43	Data Matrix	0x 63	EAN 8	0x73	GS1 DataBar Expanded
0x 44	QR	0x 64	EAN 13	0x74	GS1 DataBar Limited
0x 45	Micro QR	0x 65	Code 128	0x75	Composite Code-A
0x 46	Aztec	0x66	Code 39	0x76	Composite Code-B
0x 47	MaxiCode	0x67	Code 93	0x77	Composite Code-C
0x48	DotCode	0x68	Code 32		
		0x69	Code 11		
		0x6A	Codabar		
		0x6B	Plessey		
		0x6C	MSI Plessey		
		0x6D	Interleaved 2 of 5		
		0x6E	IATA 2 of 5		
		0x6F	Matrix 2 of 5		
		0x70	Straight 2 of 5		

Barcode message



Start setting



End Setting

Prefix

Add output characters before bar code data, and set up to 4 characters to add a characters before all bar code data:

1. Scan "start setting"
2. Scan "set all code prefix"
3. Scan the ASCII Code table, a setting code
4. Scan "end setting"

Remove prefix:

1. Scan "start setting"
2. Scan "close all code prefix"
3. Scan "end setting"

Add & 13 characters before the EAN 13 barcode data:

1. Scan "start setting"
2. Scan "set EAN 13 prefix"
3. Scan the ASCII Code table, & setup code
4. Scan the ASCII Code table, 1setup code
5. Scan the ASCII Code table, 3 setup code
6. Scan "end setting"

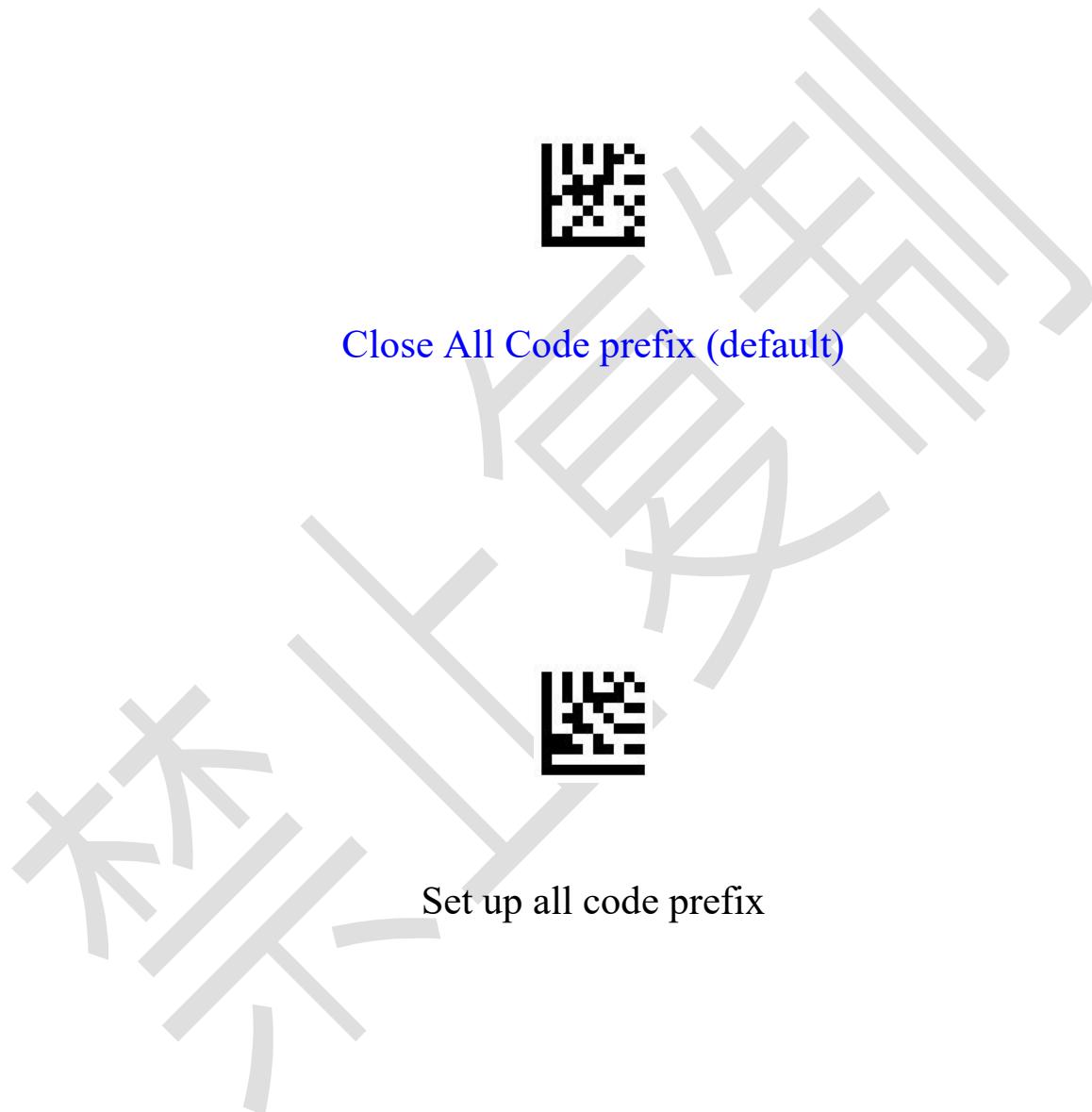
Remove EAN 13 prefix:

1. Scan "start setting"
2. Scan "set EAN 13 prefix"
3. Scan "end setting"

Prefix



Start setting

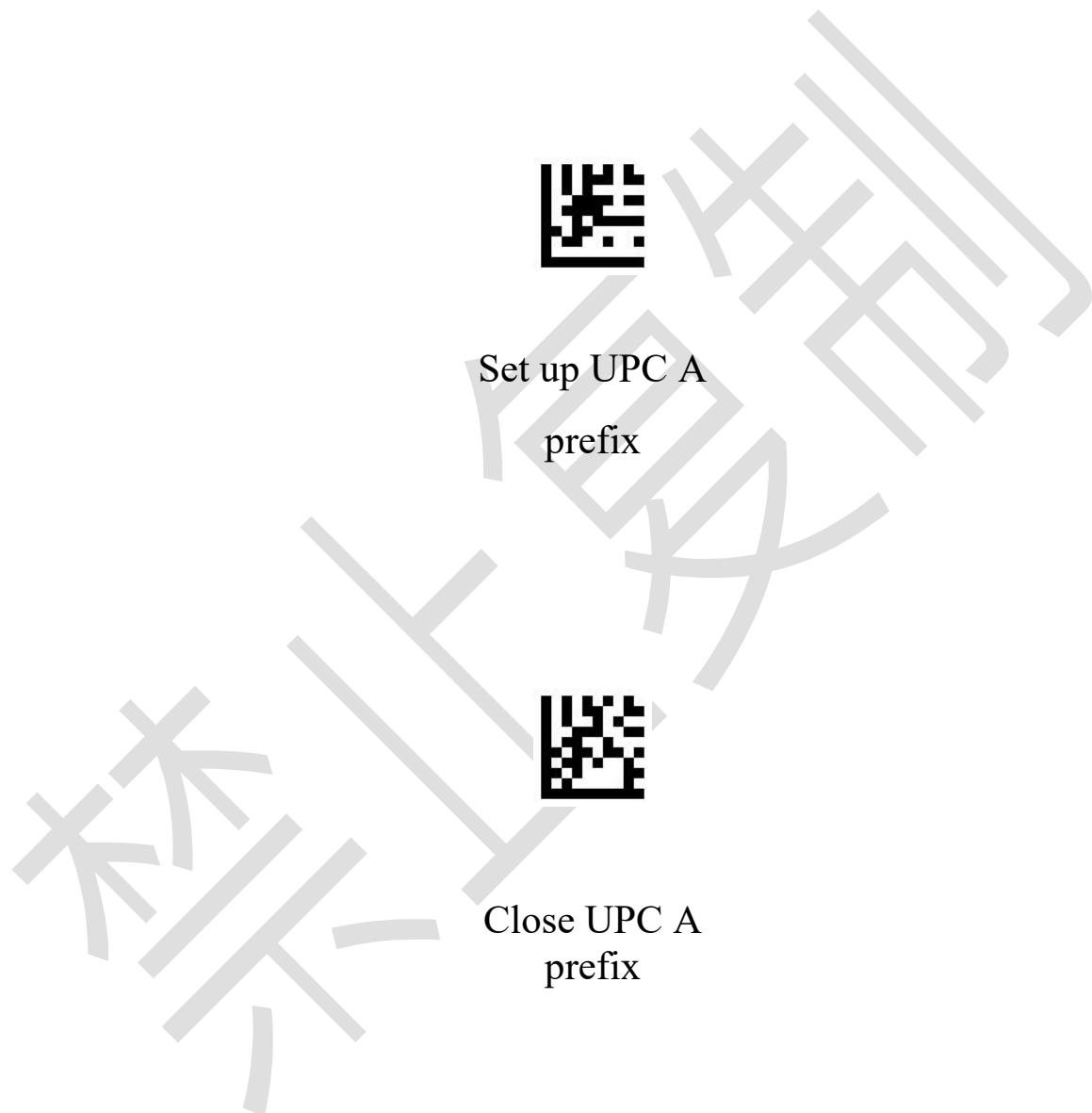


End Setting

Prefix



Start setting



**Close UPC A
prefix**

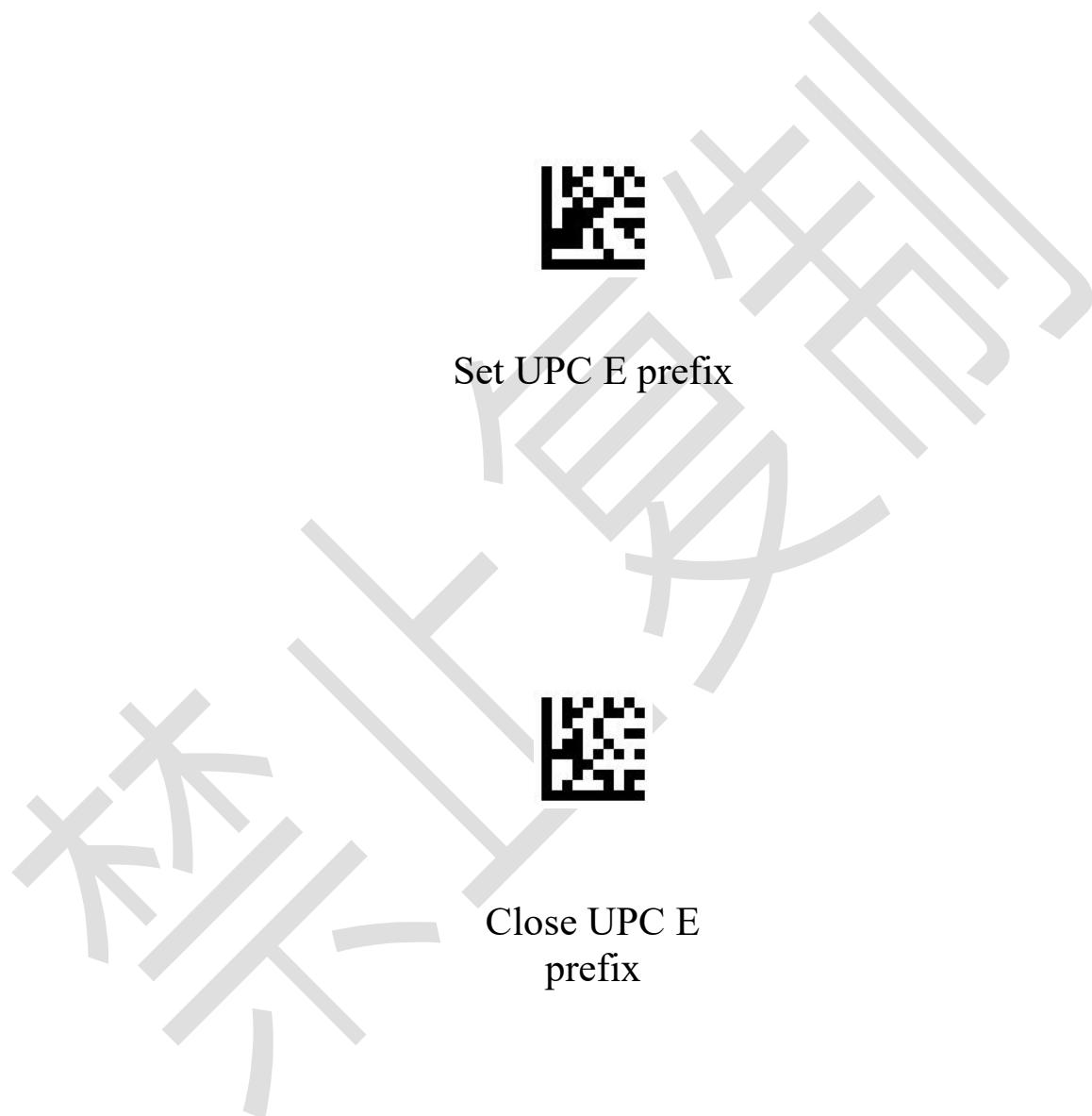


End Setting

Prefix



Start setting

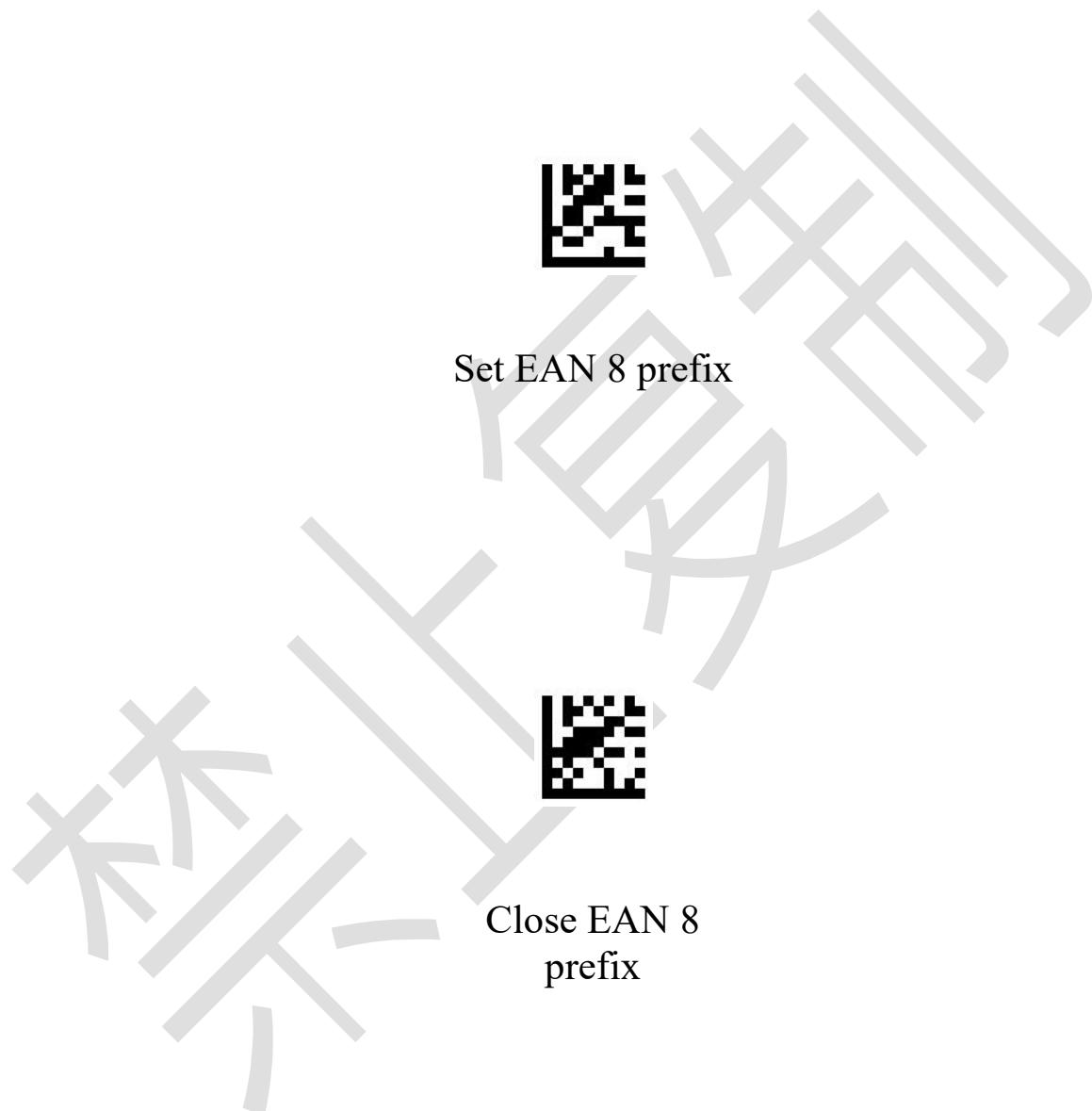


End Setting

Prefix



Start setting

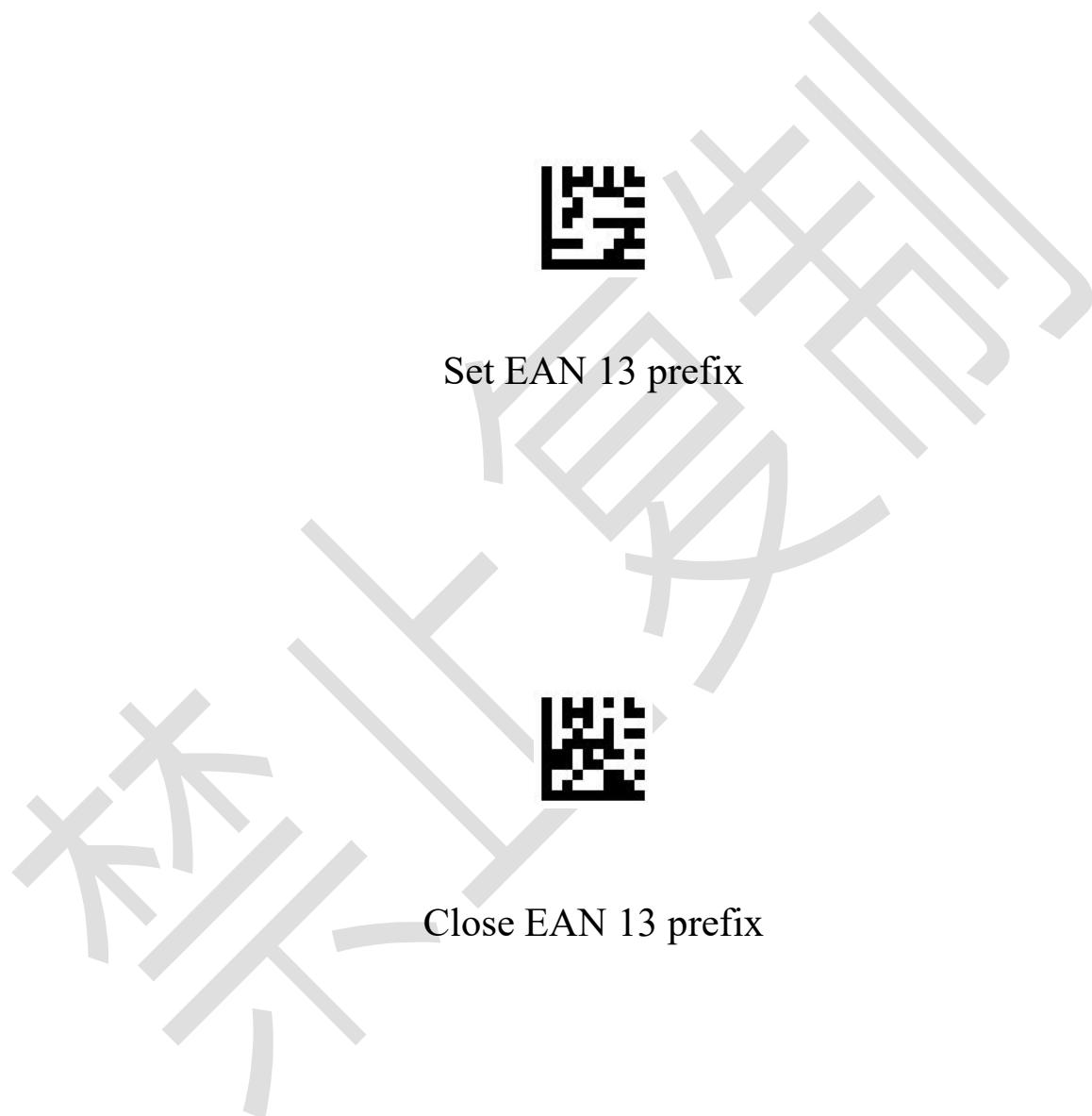


End Setting

Prefix



Start setting

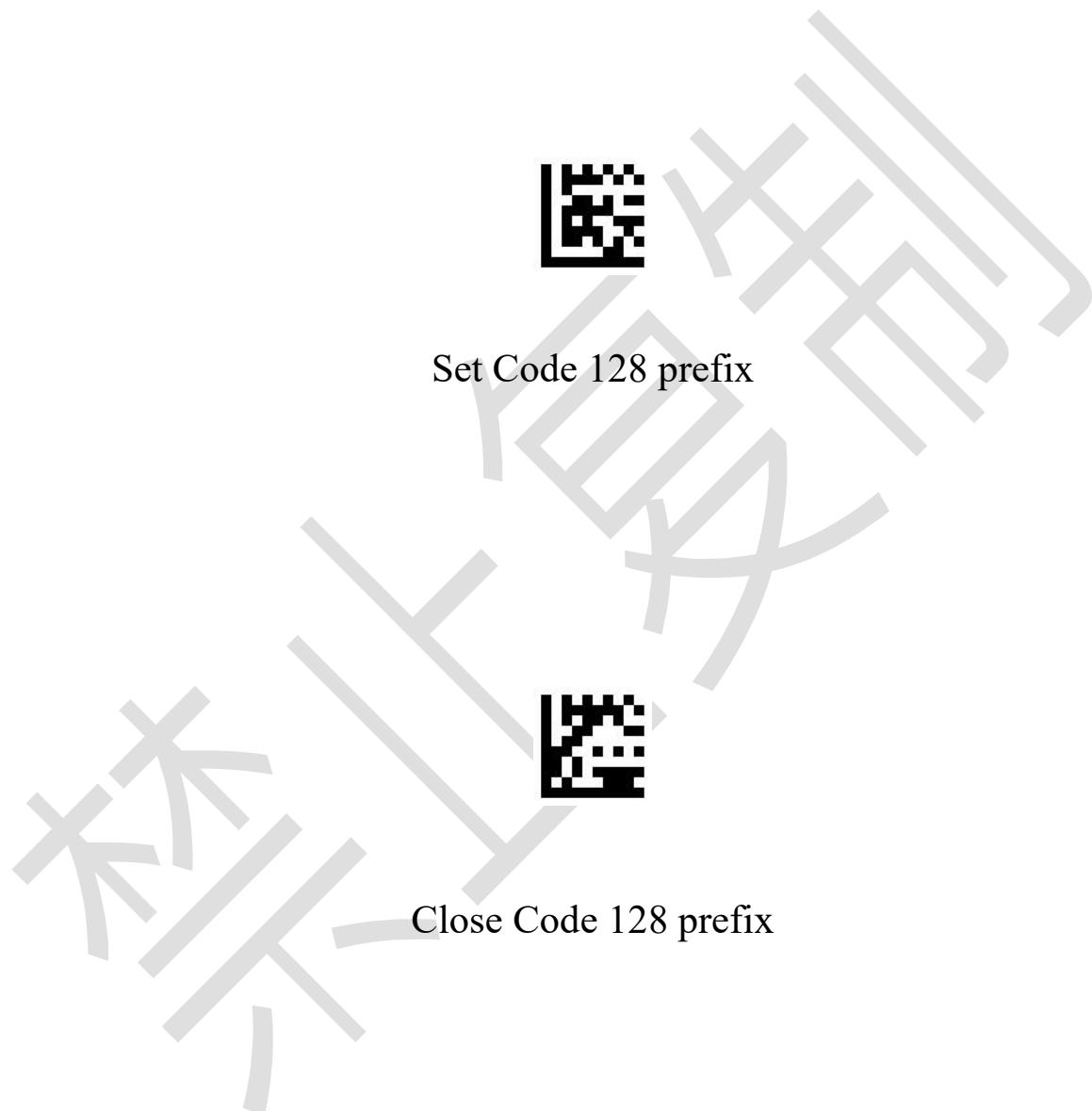


End Setting

Prefix



Start setting



End Setting

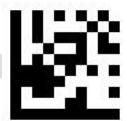
Prefix



Start setting



Set Code 39 prefix



Close Code 39 prefix

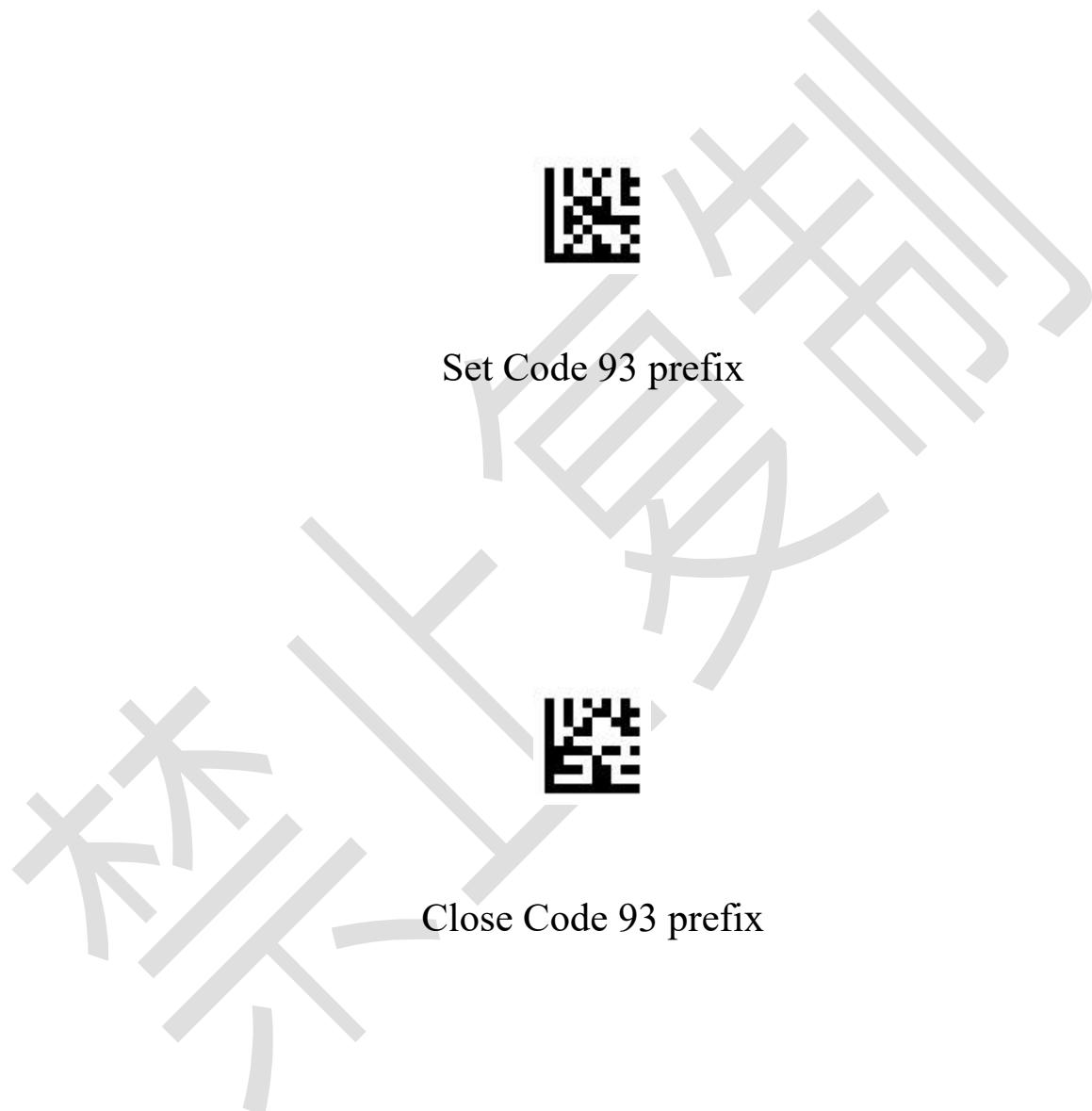


End Setting

Prefix



Start setting



End Setting

Prefix



Start setting

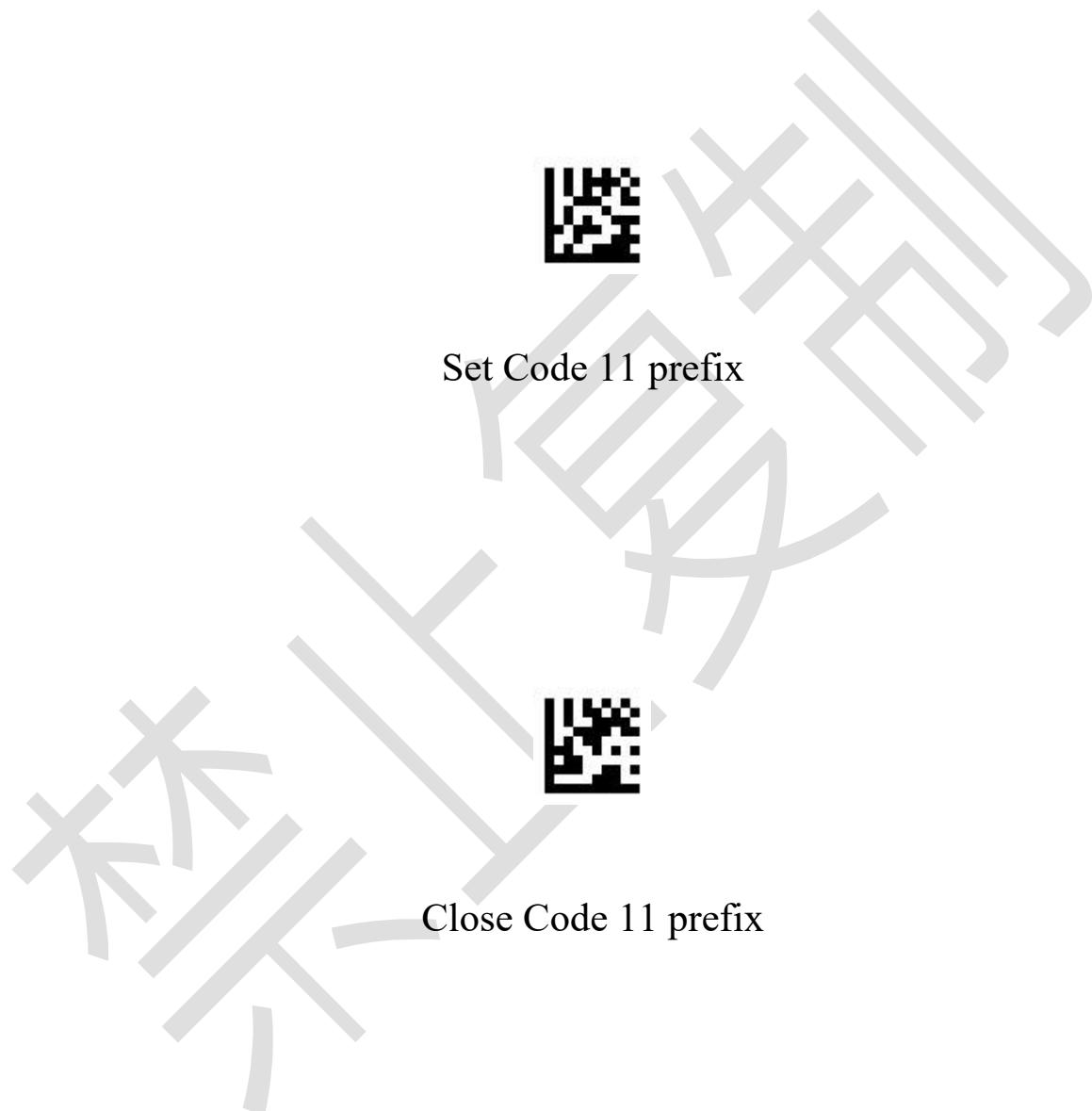


End Setting

Prefix



Start setting



End Setting

Prefix



Start setting

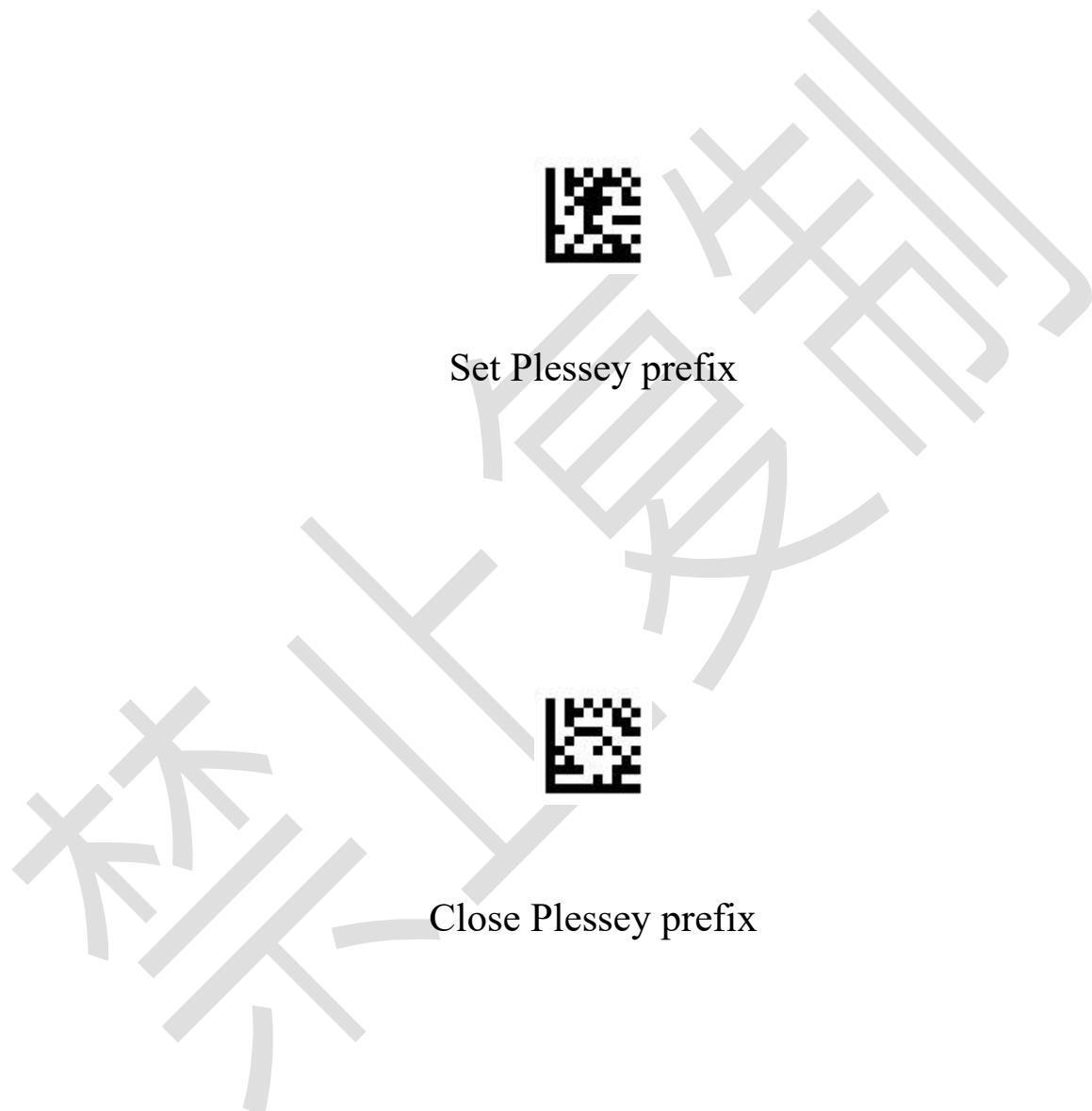


End Setting

Prefix

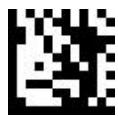


Start setting



End Setting

Prefix



Start setting



Set MSI Plessey prefix



Close MSI Plessey prefix

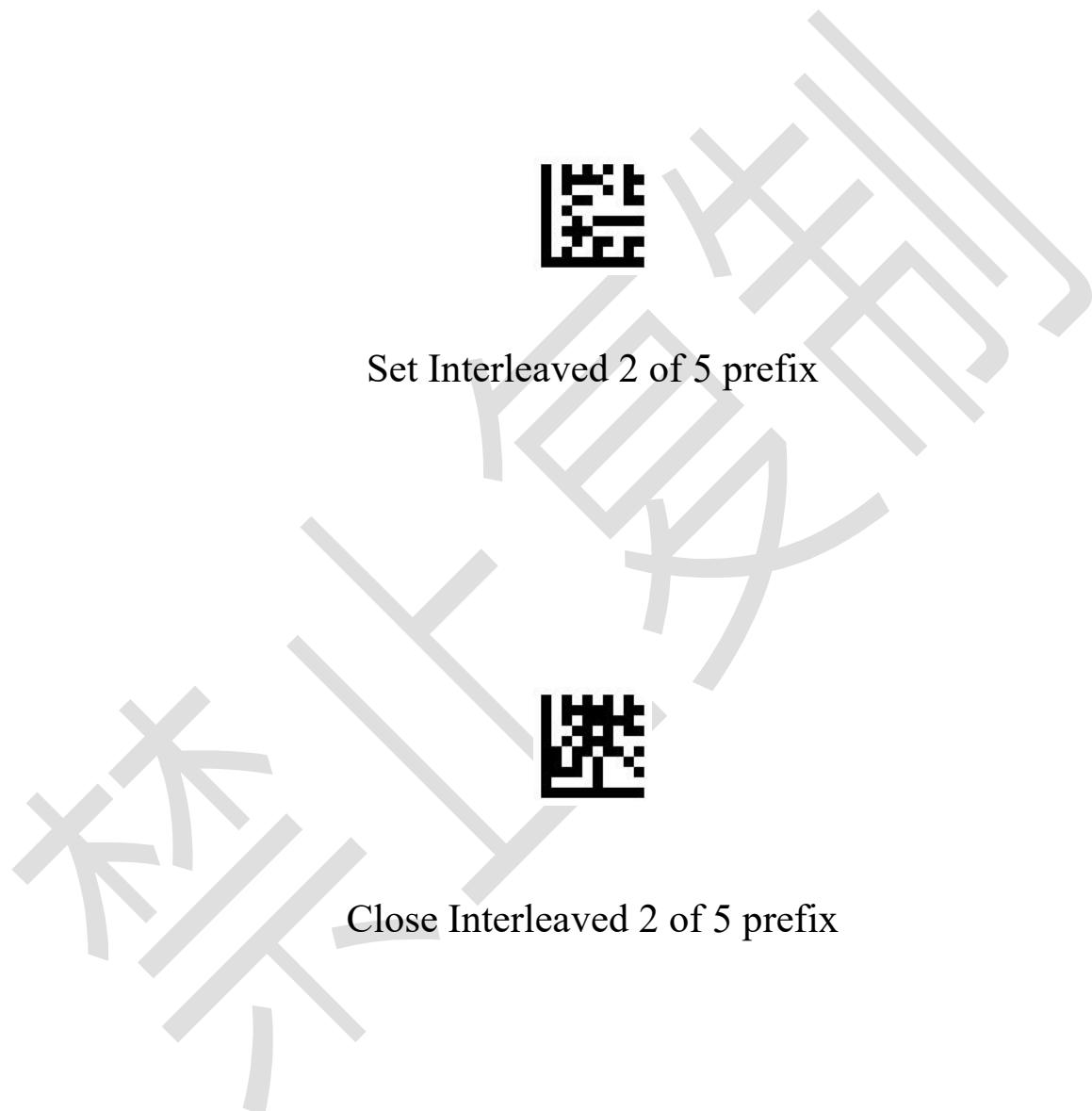


End Setting

Prefix



Start setting

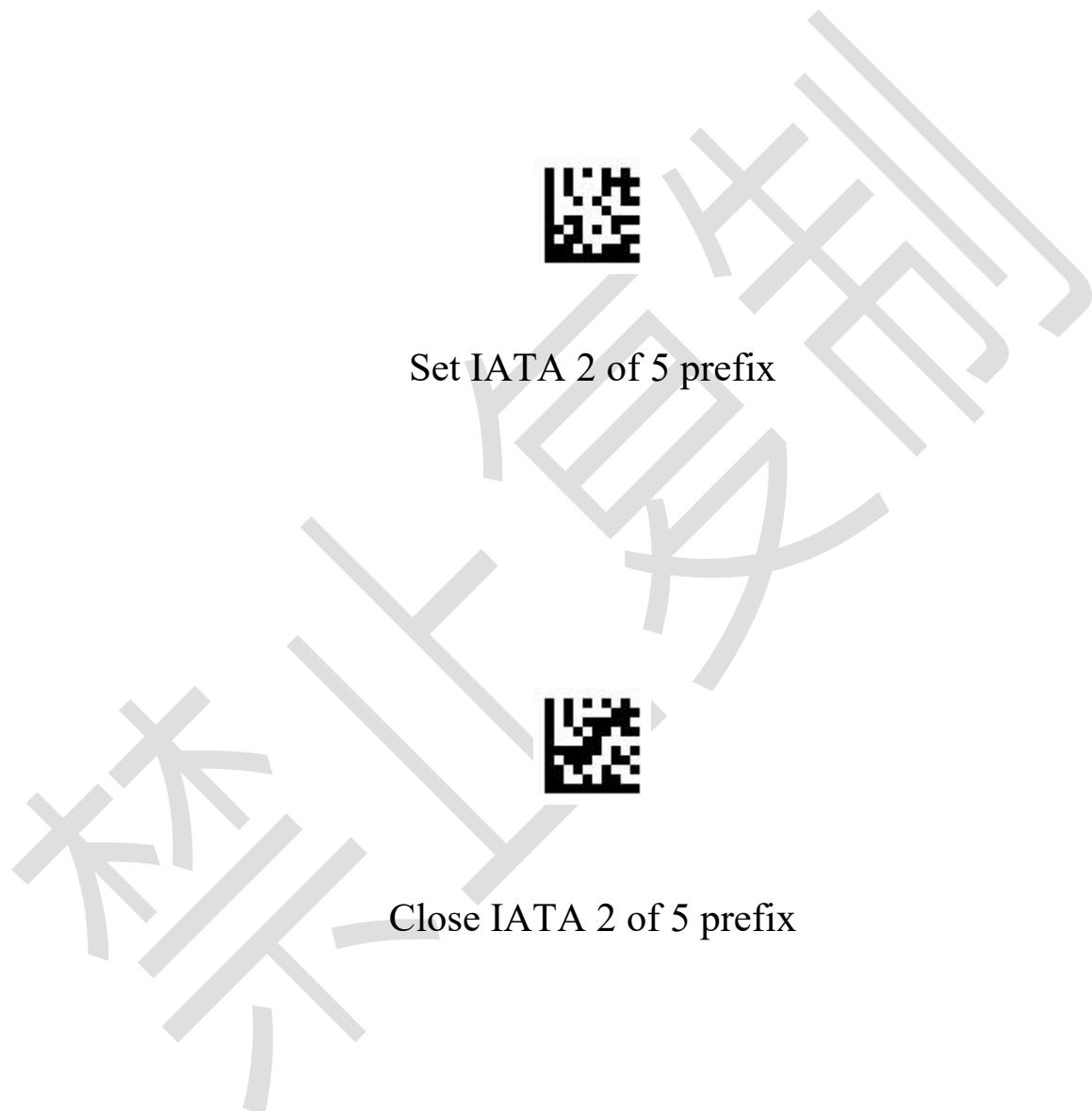


End Setting

Prefix

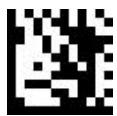


Start setting

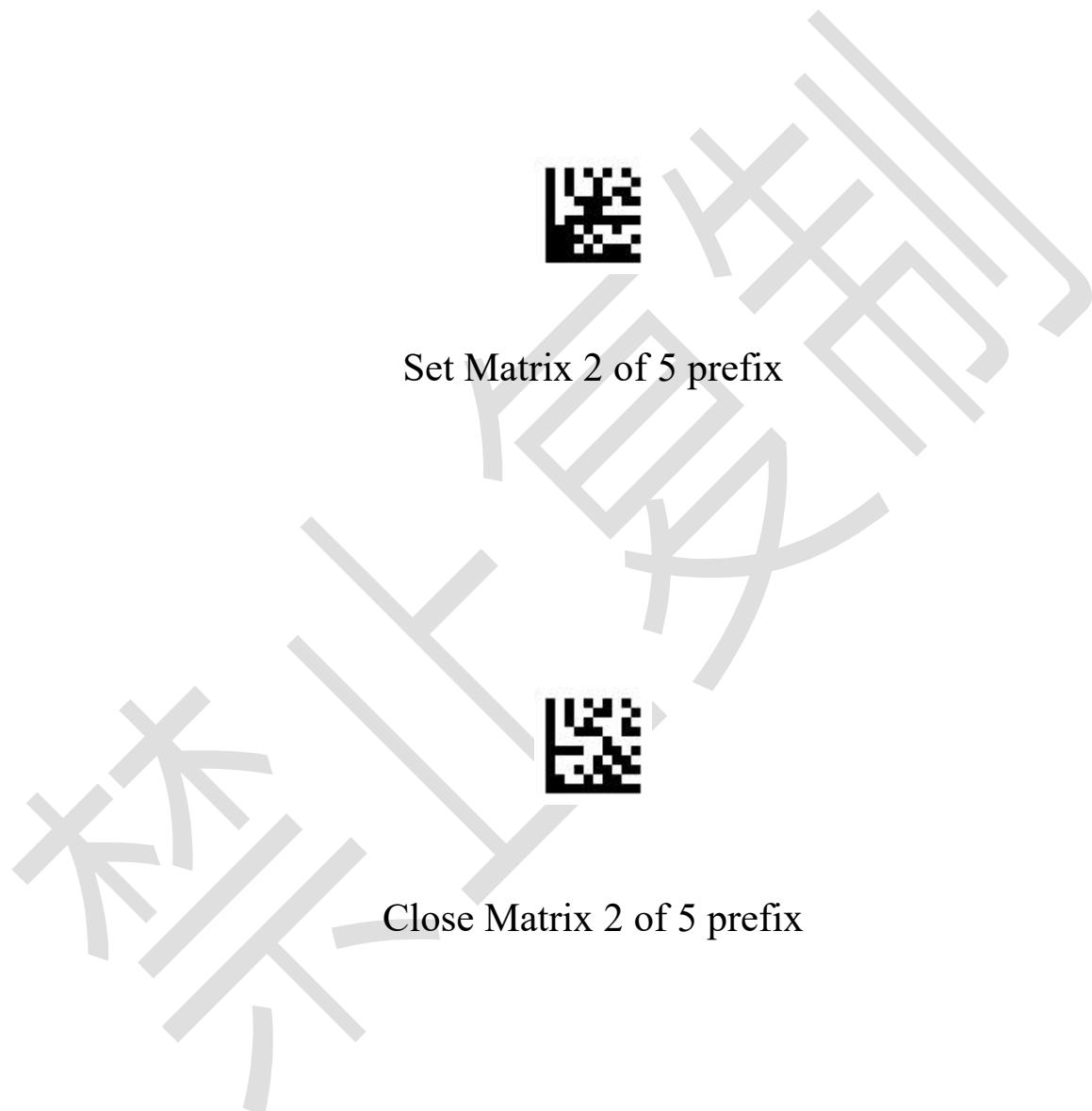


End Setting

Prefix



Start setting

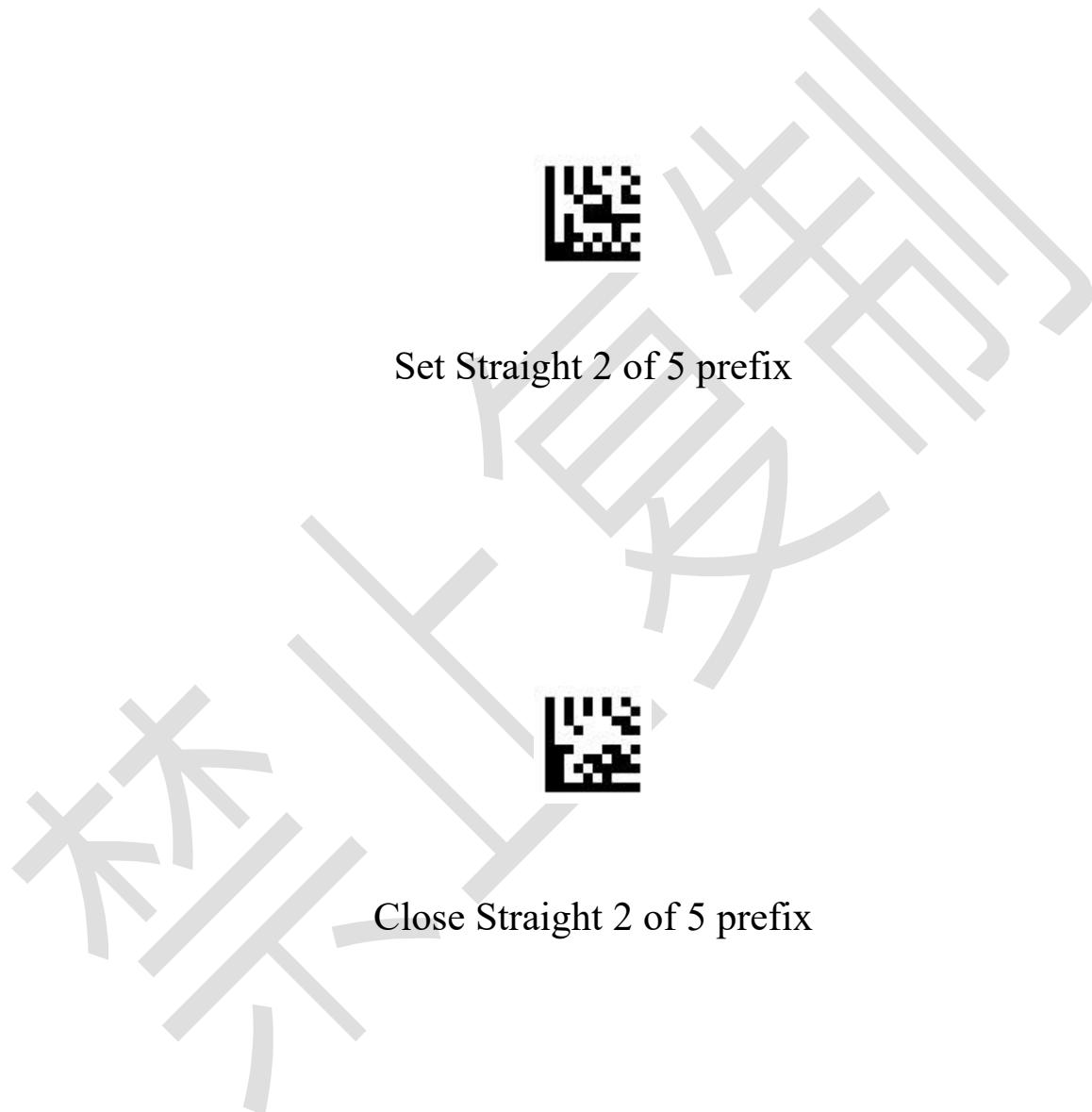


End Setting

Prefix



Start setting



End Setting

Prefix



Start setting

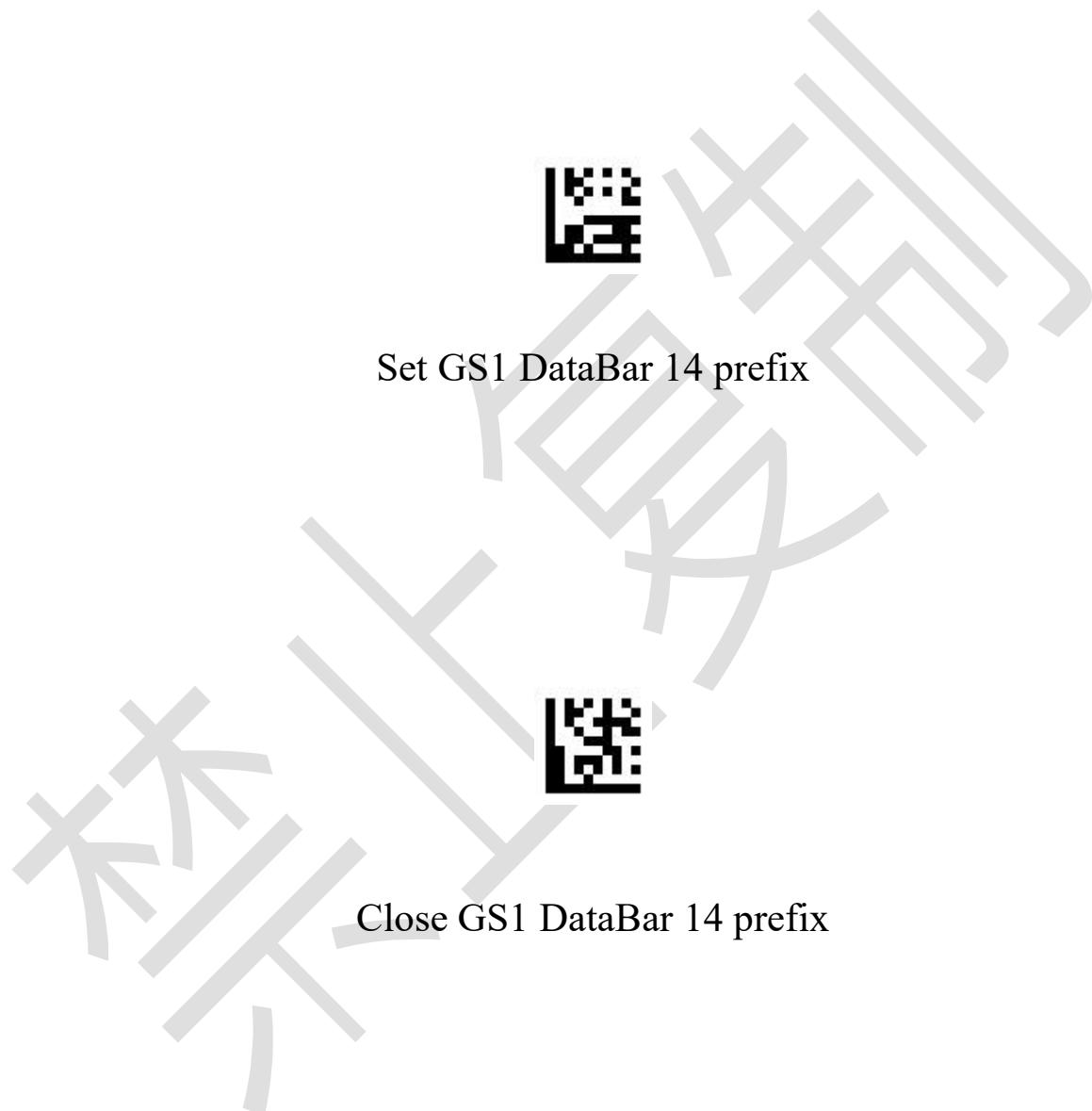


End Setting

Prefix



Start setting



End Setting

Prefix



Start setting



End Setting

Prefix



Start setting

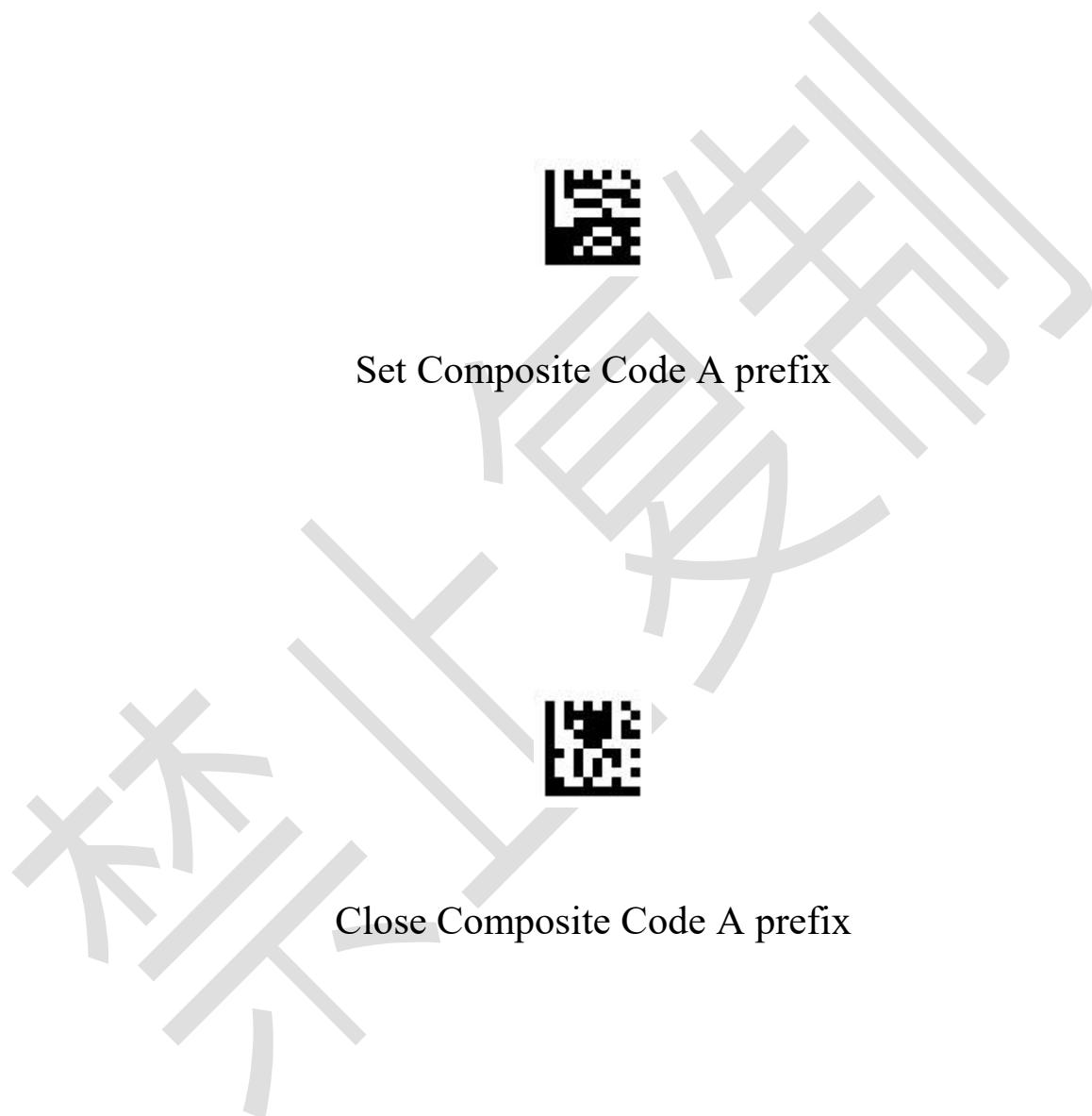


End Setting

Prefix



Start setting



Close Composite Code A prefix

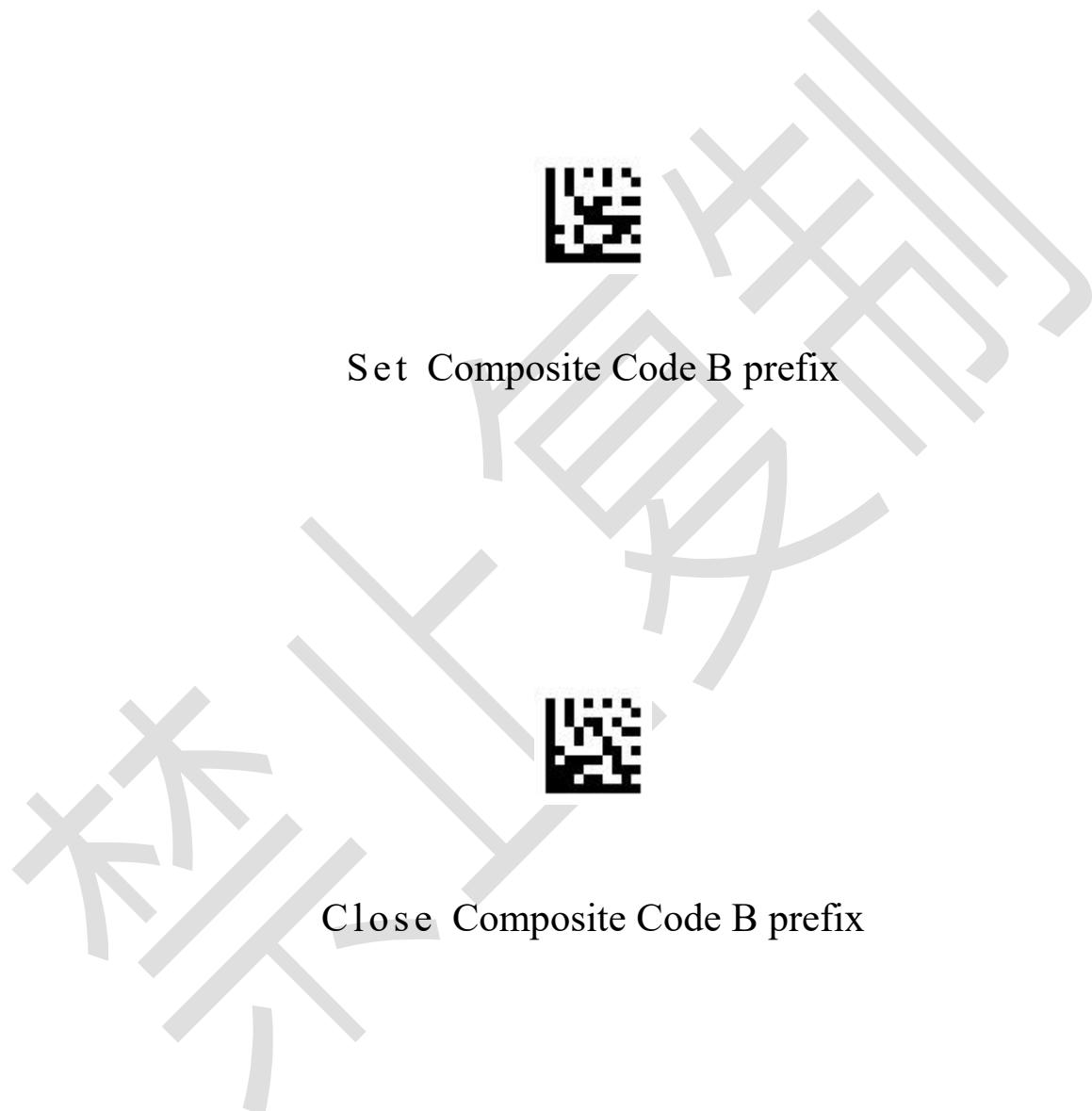


End Setting

Prefix



Start setting

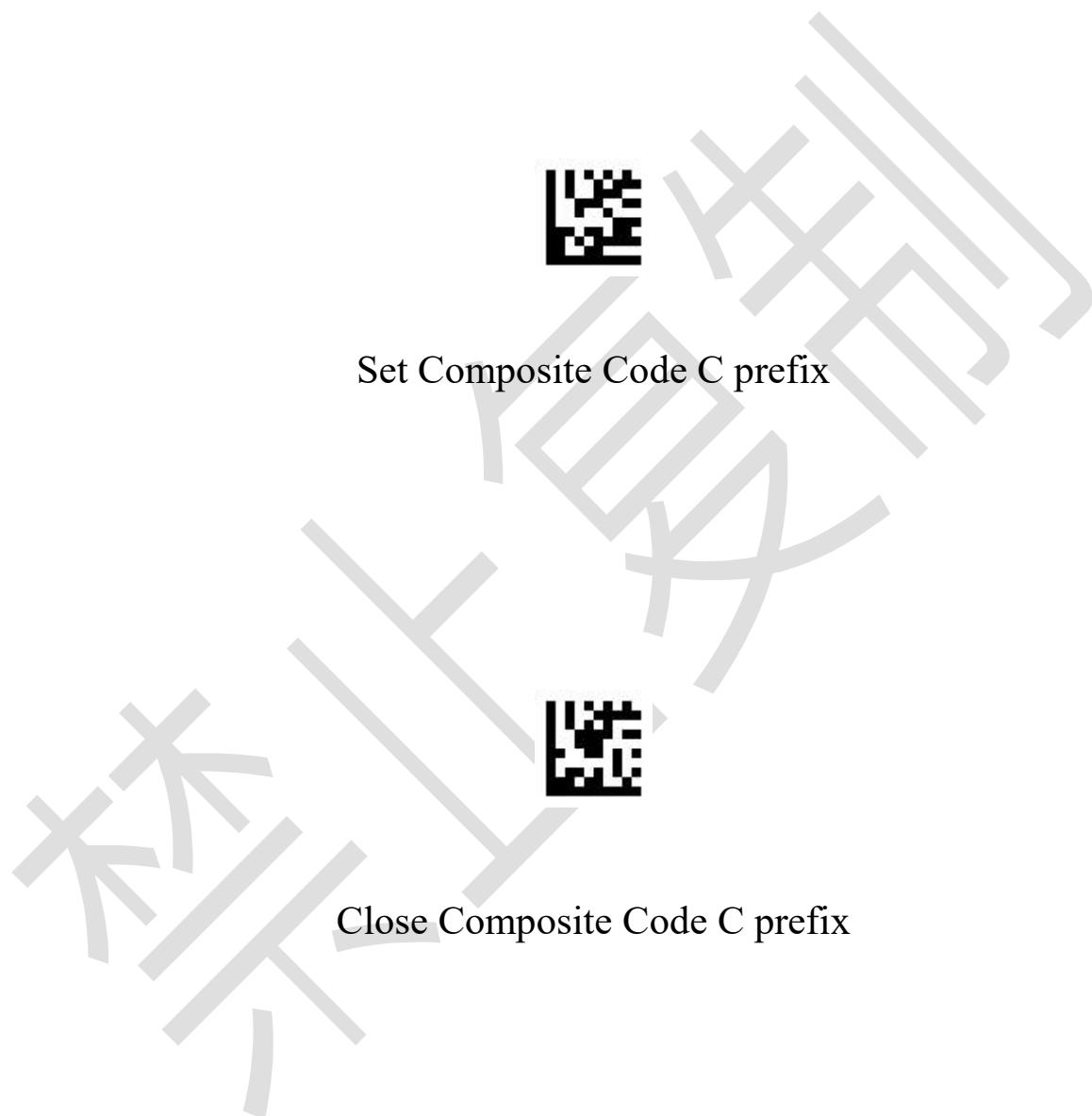


End Setting

Prefix



Start setting

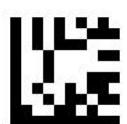


End Setting

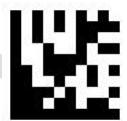
Prefix



Start setting



Set PDF417 prefix



Close PDF417
prefix



End Setting

Prefix



Start setting



Set Micro PDF417 prefix



Close Micro PDF417 prefix

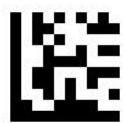


End Setting

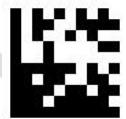
Prefix



Start setting



Set Data Matrix prefix



Close Data Matrix prefix

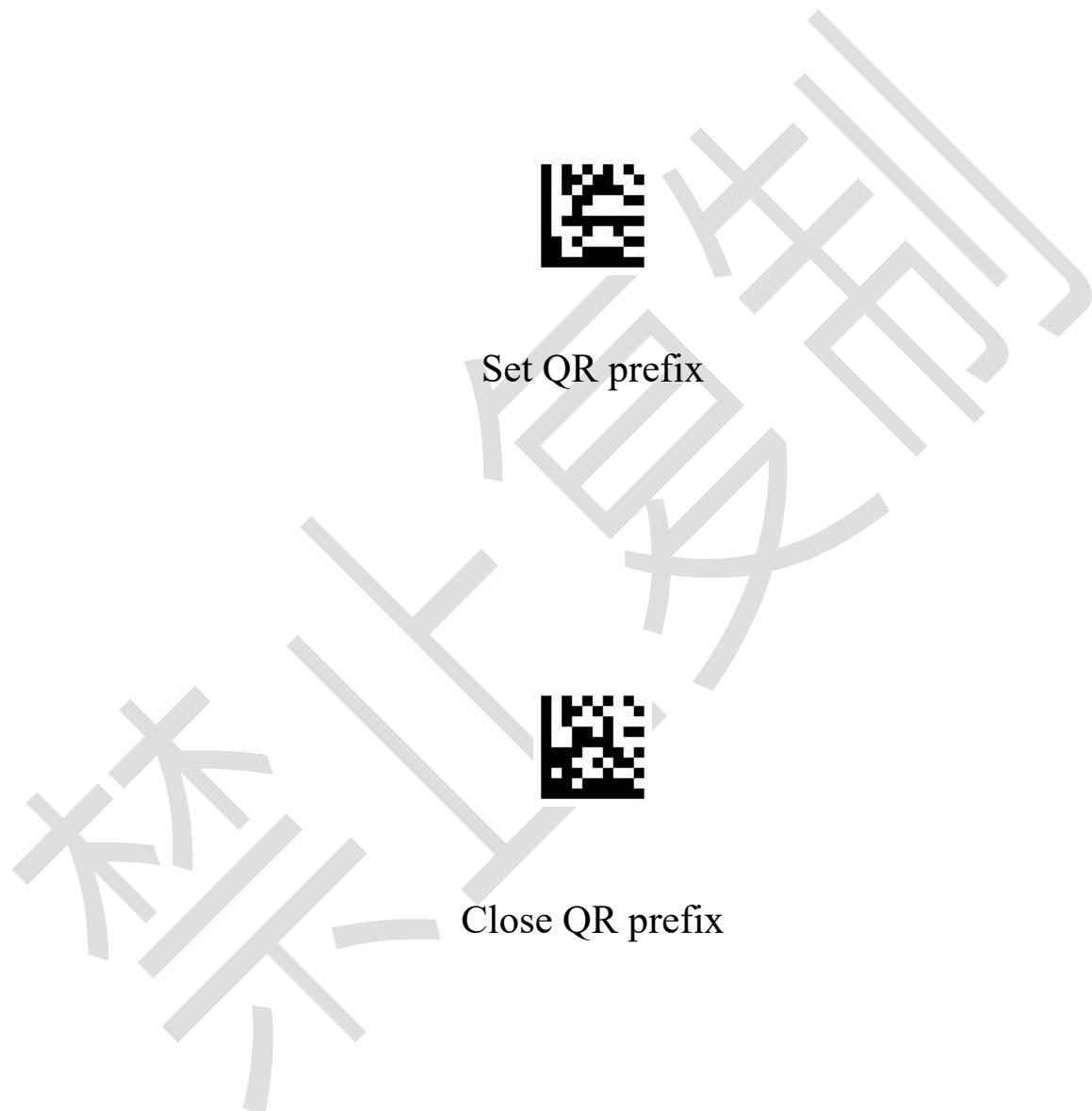


End Setting

Prefix



Start setting



End Setting

Prefix



Start setting



End Setting

Prefix



Start setting



End Setting

Prefix



Start setting



End Setting

Suffix

Add output word element after bar code data, can set up to 4 words element to add a word element after all bar code data:

1. Scan "start setting"
2. Scan "set all code suffix"
3. Scan the ASCII Code table, a setting code
4. Scan "end setting"

Remove suffix:

1. Scan "start setting"
2. "Scan "close all code suffix"
3. Scan "end setting"

After adding & 13 characters to the EAN 13 barcode data:

1. Scan "start setting"
2. Scan "set EAN 13 suffix"
3. Scan ASCII Code table, & setup code
4. Scan ASCII Code table, 1 setup code
5. Scan ASCII Code table, 3 setup code
6. Scan "end setting"

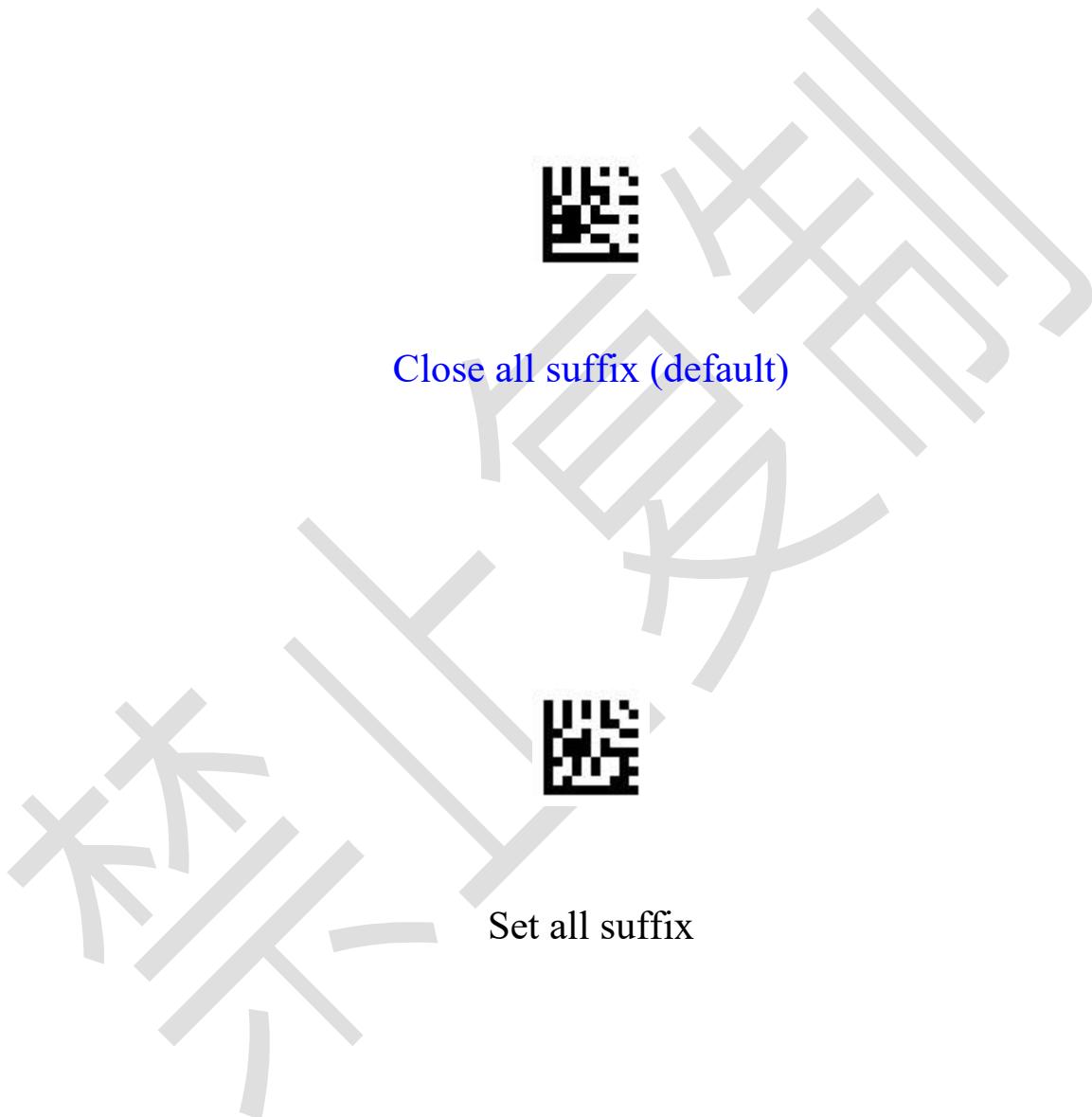
Remove EAN 13 suffix:

1. Scan "start setting"
2. Scan "Close EAN 13 suffix"
3. Scan "end setting"

Suffix



Start setting

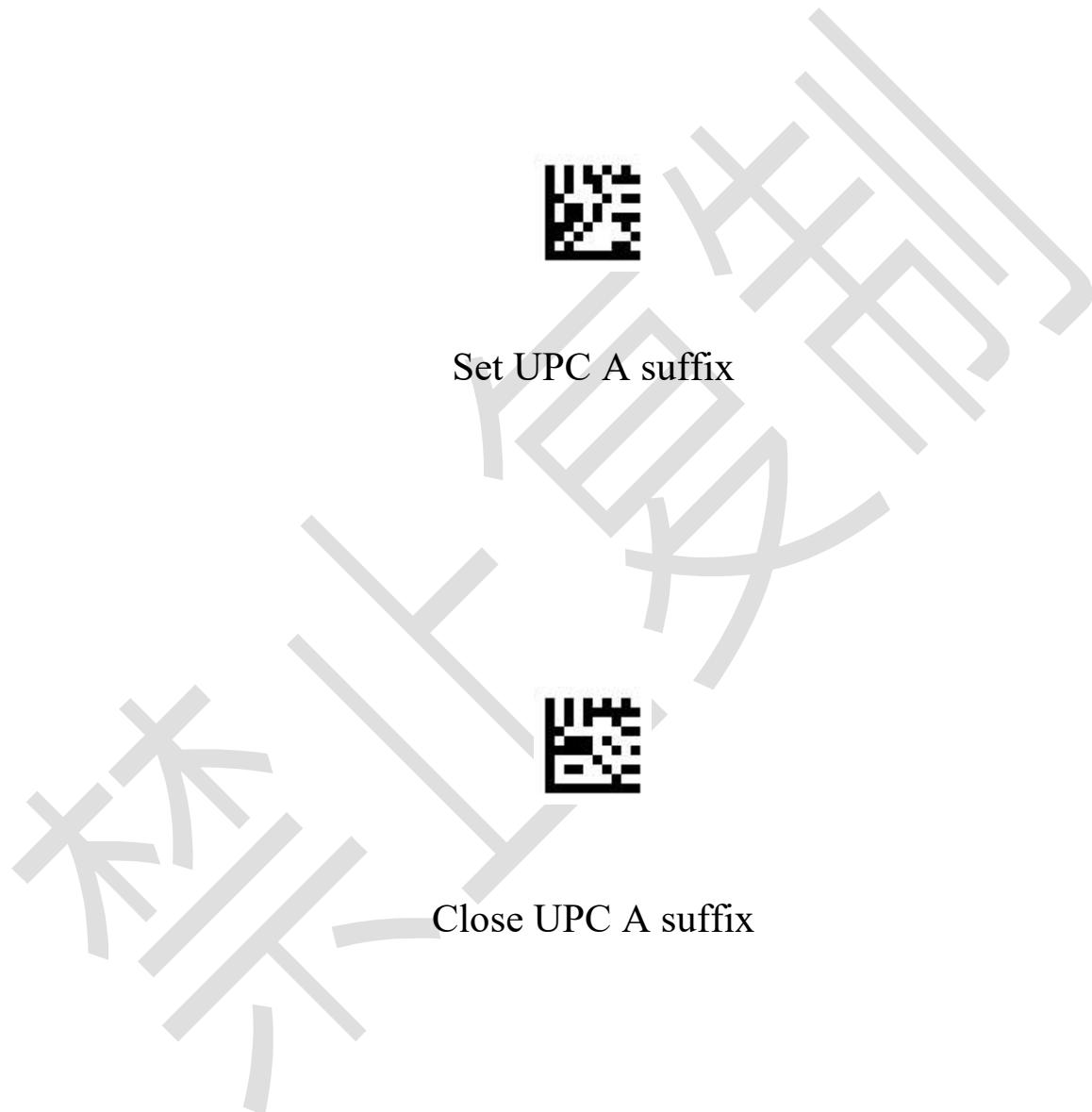


End Setting

Suffix



Start setting

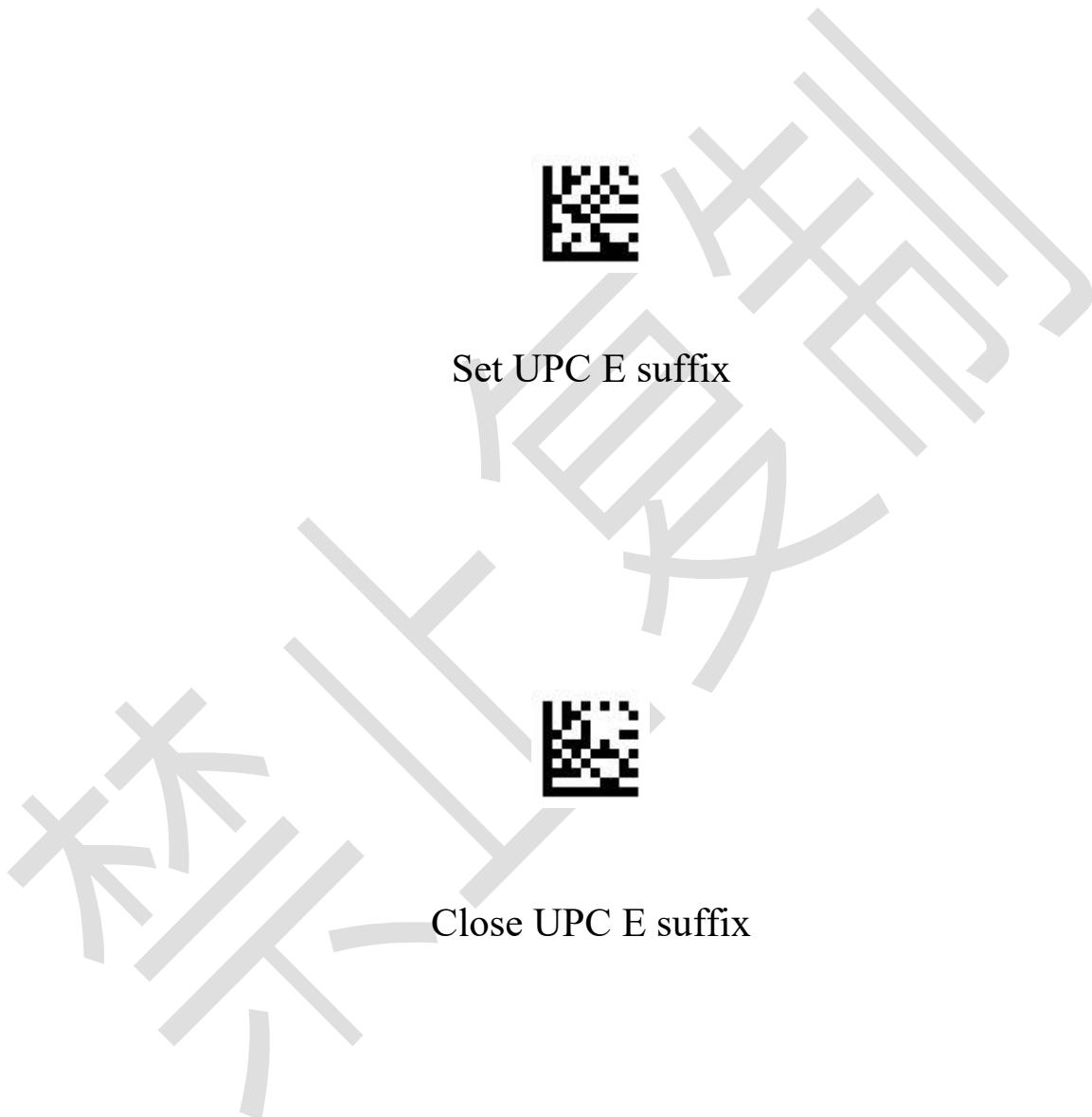


End Setting

Suffix

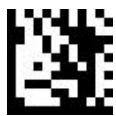


Start setting



End Setting

Suffix



Start setting



End Setting

Suffix



Start setting



End Setting

Suffix



Start setting

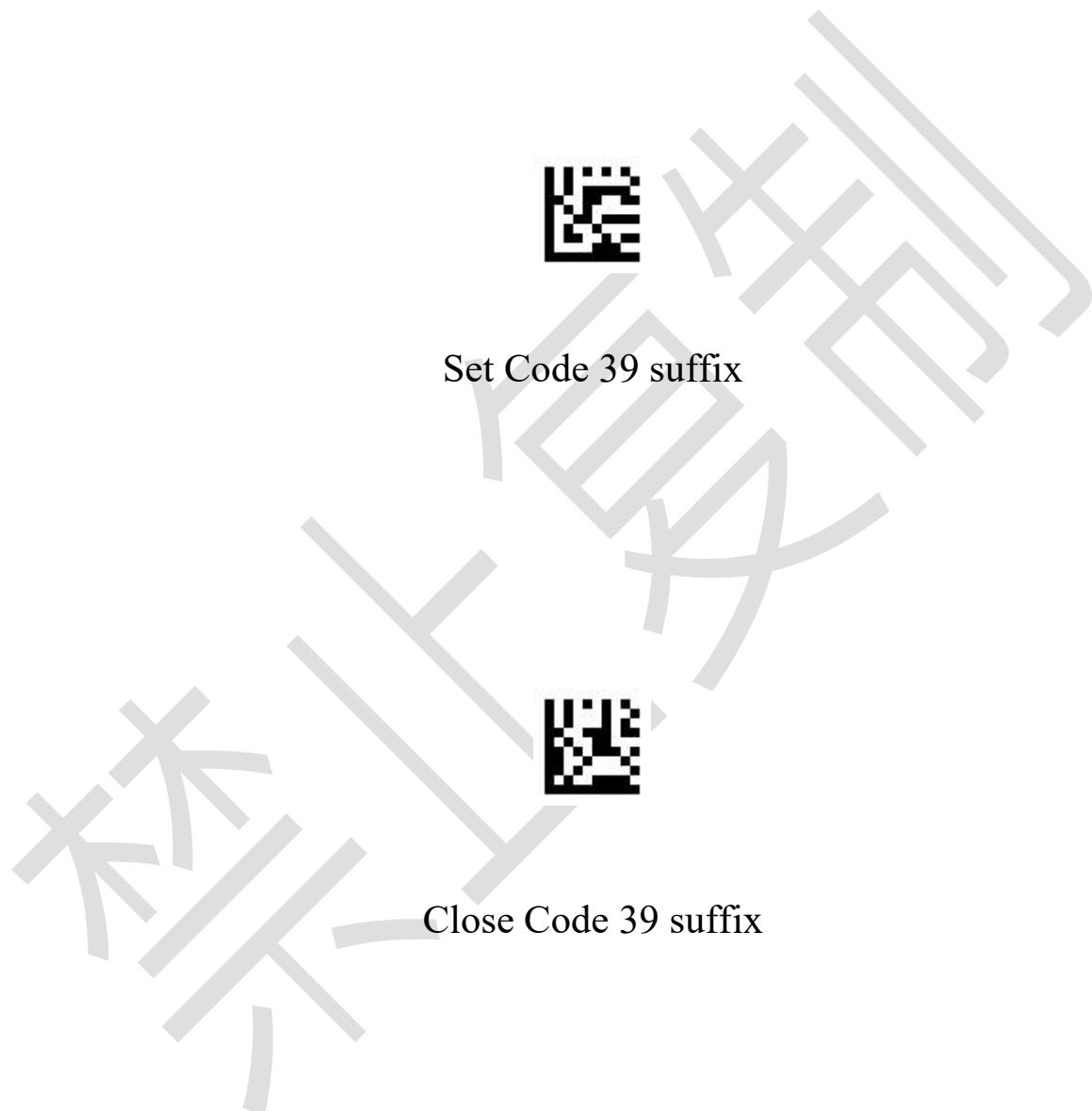


End Setting

Suffix



Start setting

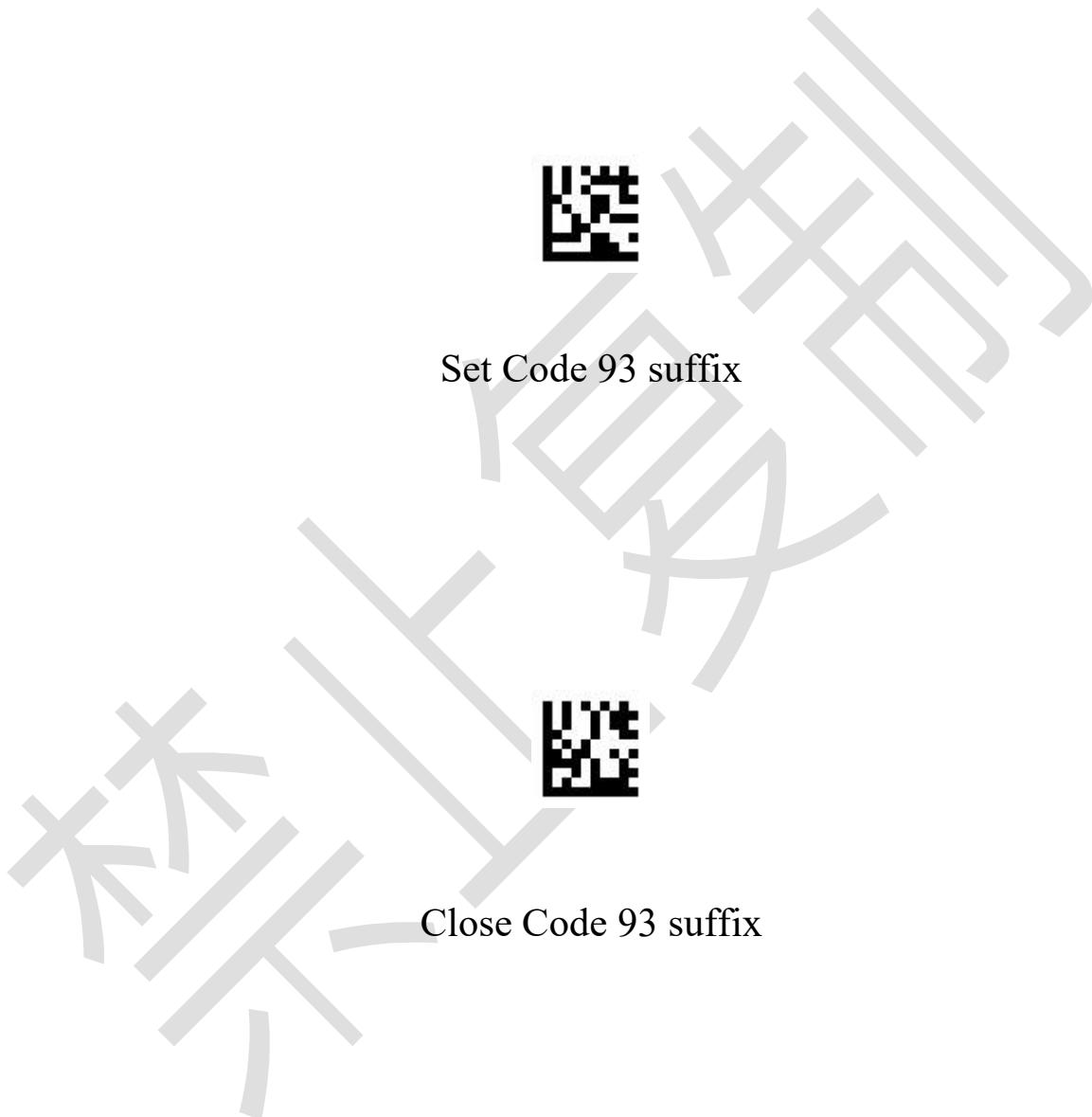


End Setting

Suffix



Start setting

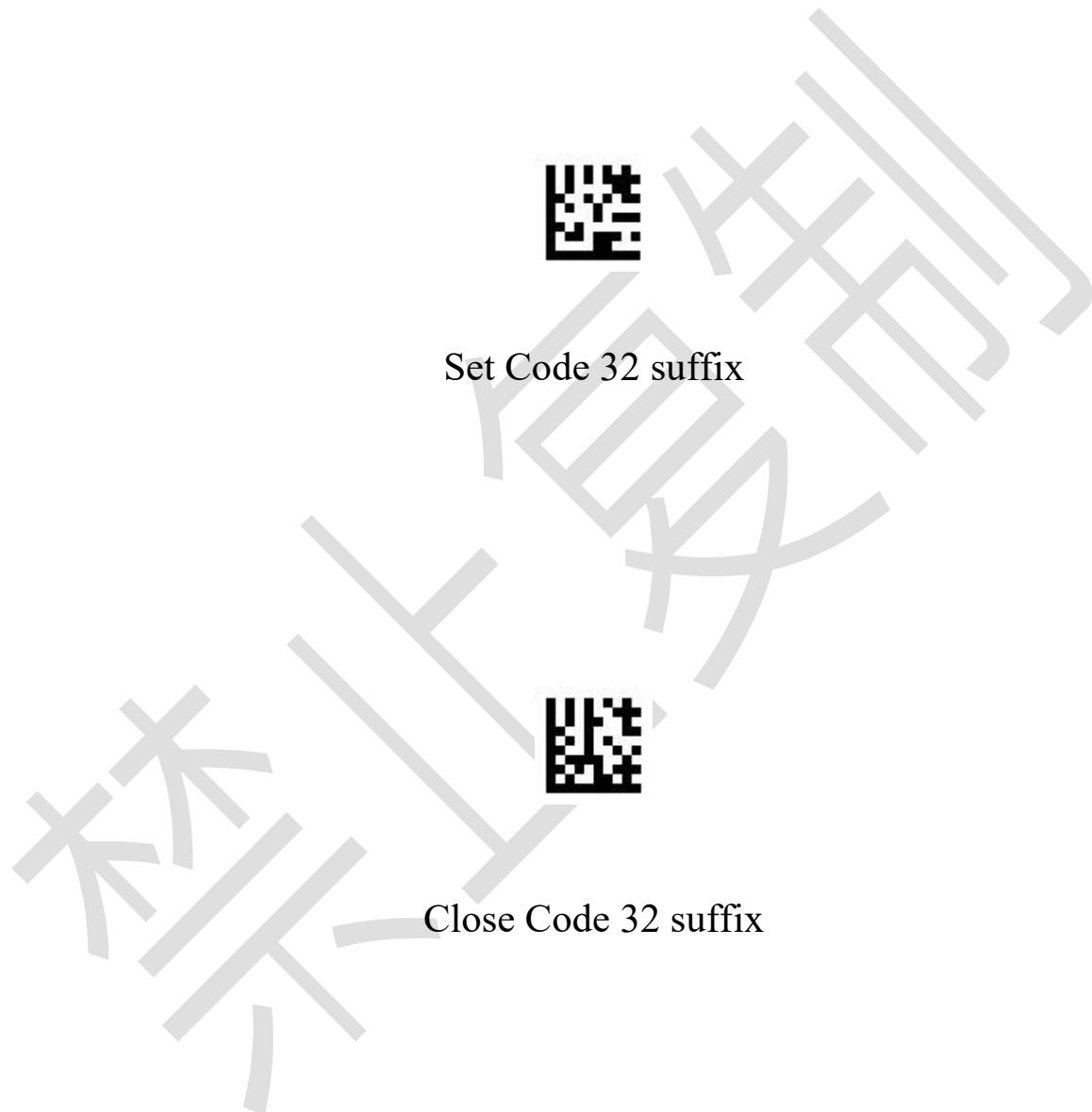


End Setting

Suffix



Start setting

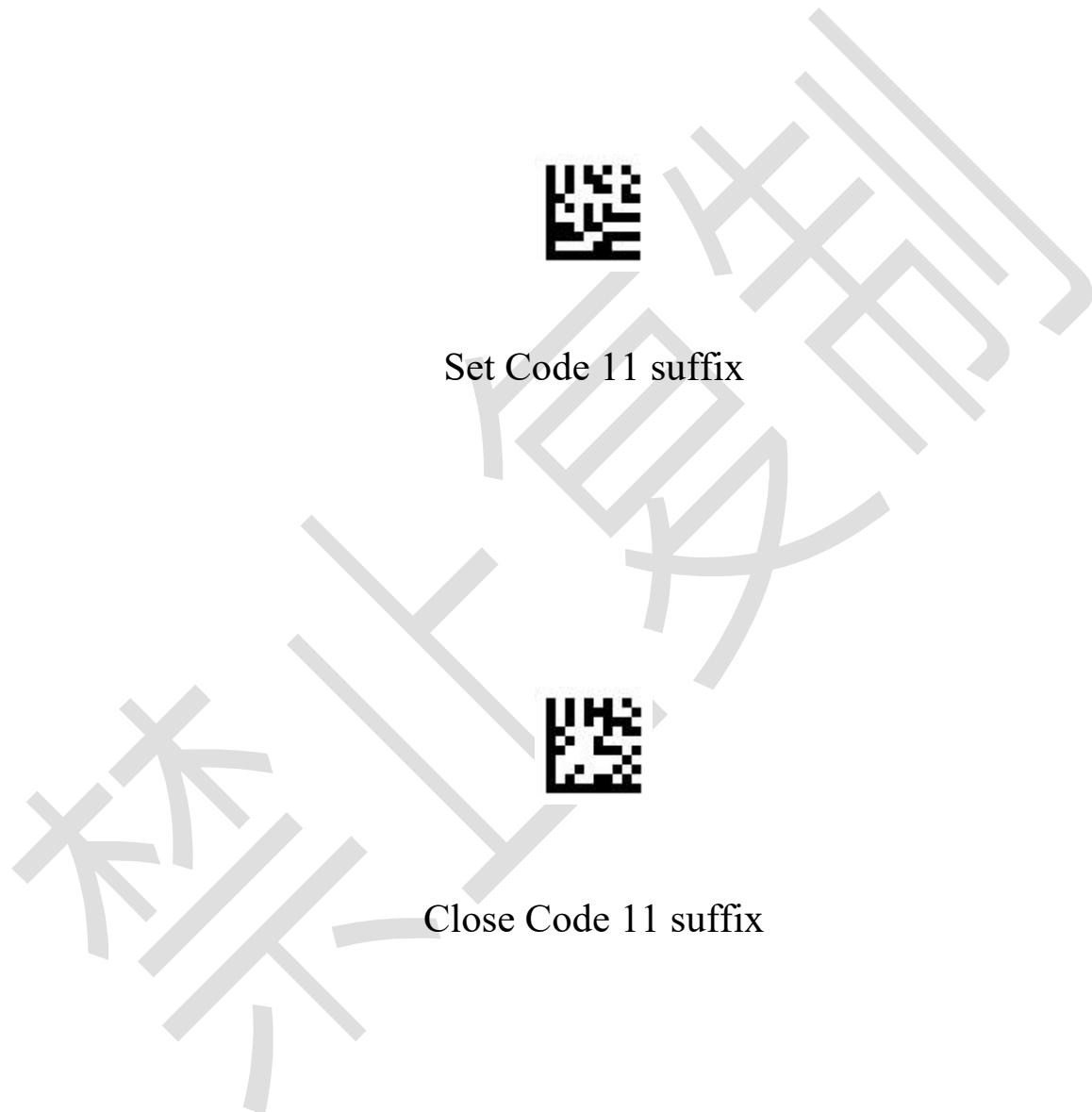


End Setting

Suffix



Start setting



End Setting

Suffix



Start setting



End Setting

Suffix



Start setting



End Setting

Suffix



Start setting



End Setting

Suffix



Start setting



End Setting

Suffix



Start setting



End Setting

Suffix



Start setting



End Setting

Suffix



Start setting



End Setting

Suffix



Start setting



End Setting

Suffix



Start setting



Set GS1 DataBar 14 suffix



Close GS1 DataBar 14 suffix



End Setting

Suffix



Start setting



Set GS1 DataBar Expanded suffix



Close GS1 DataBar Expanded suffix



End Setting

Suffix



Start setting



Set GS1 DataBar Limited suffix



Close GS1 DataBar Limited suffix

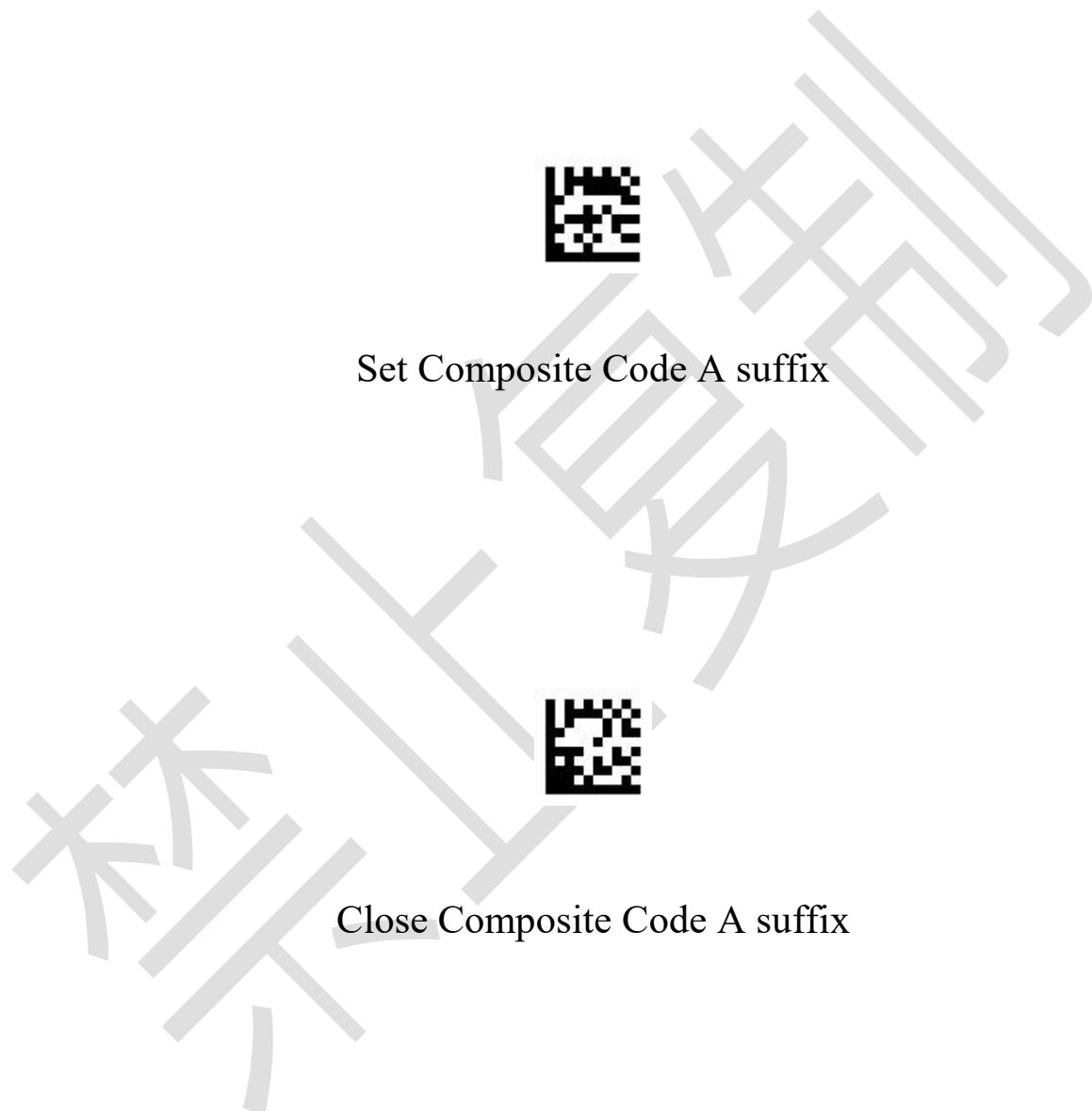


End Setting

Suffix



Start setting

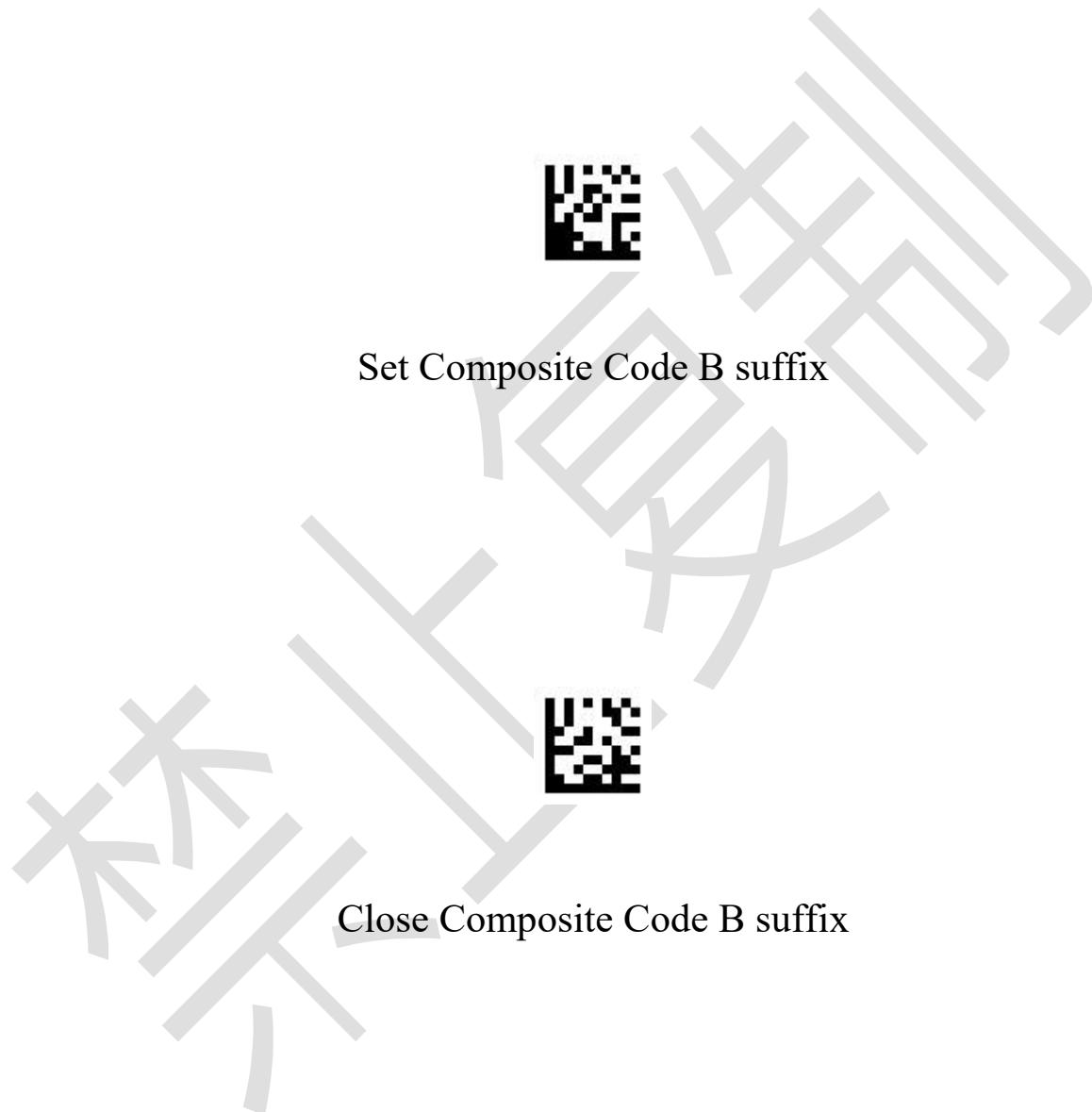


End Setting

Suffix



Start setting

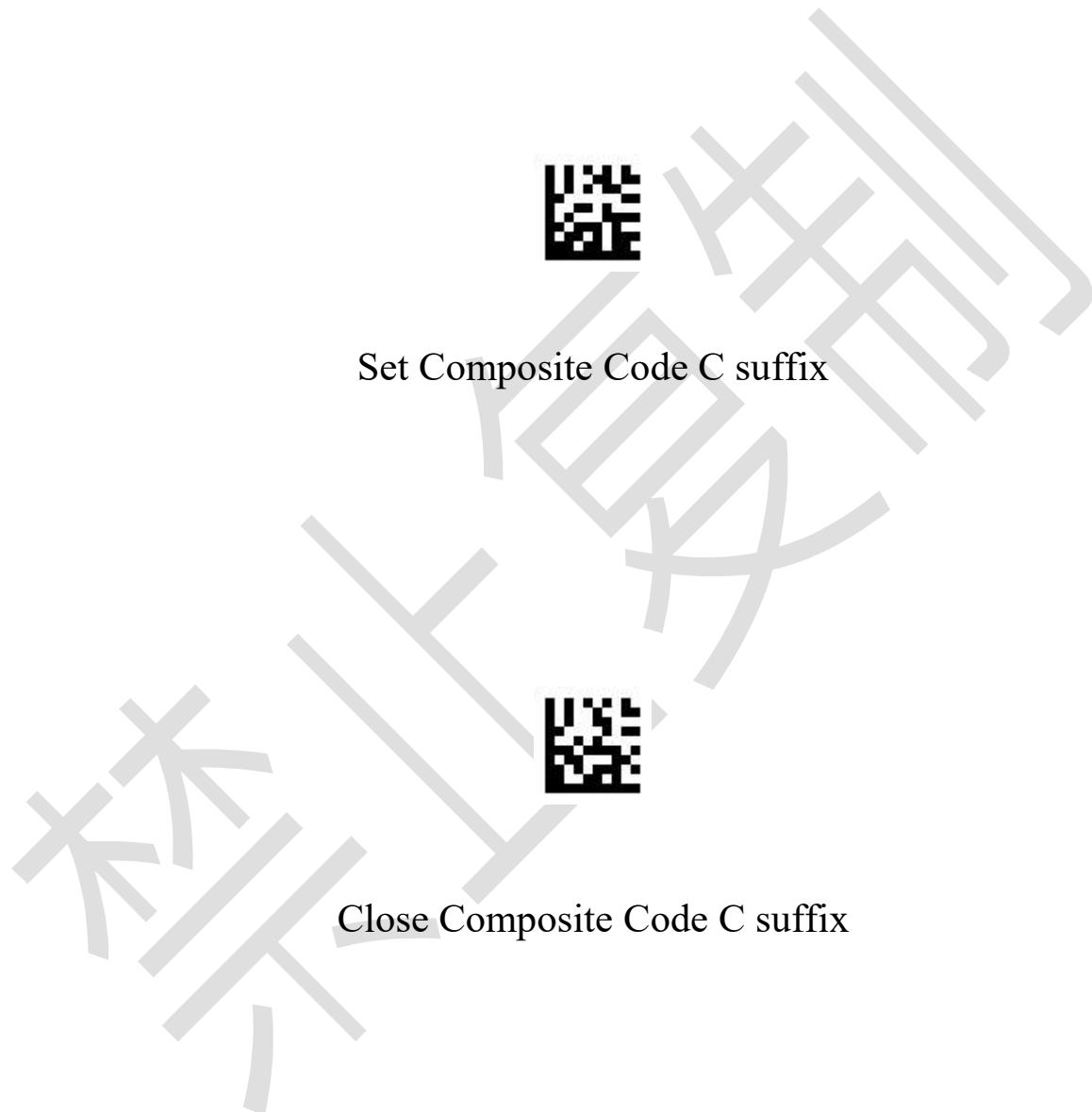


End Setting

Suffix



Start setting

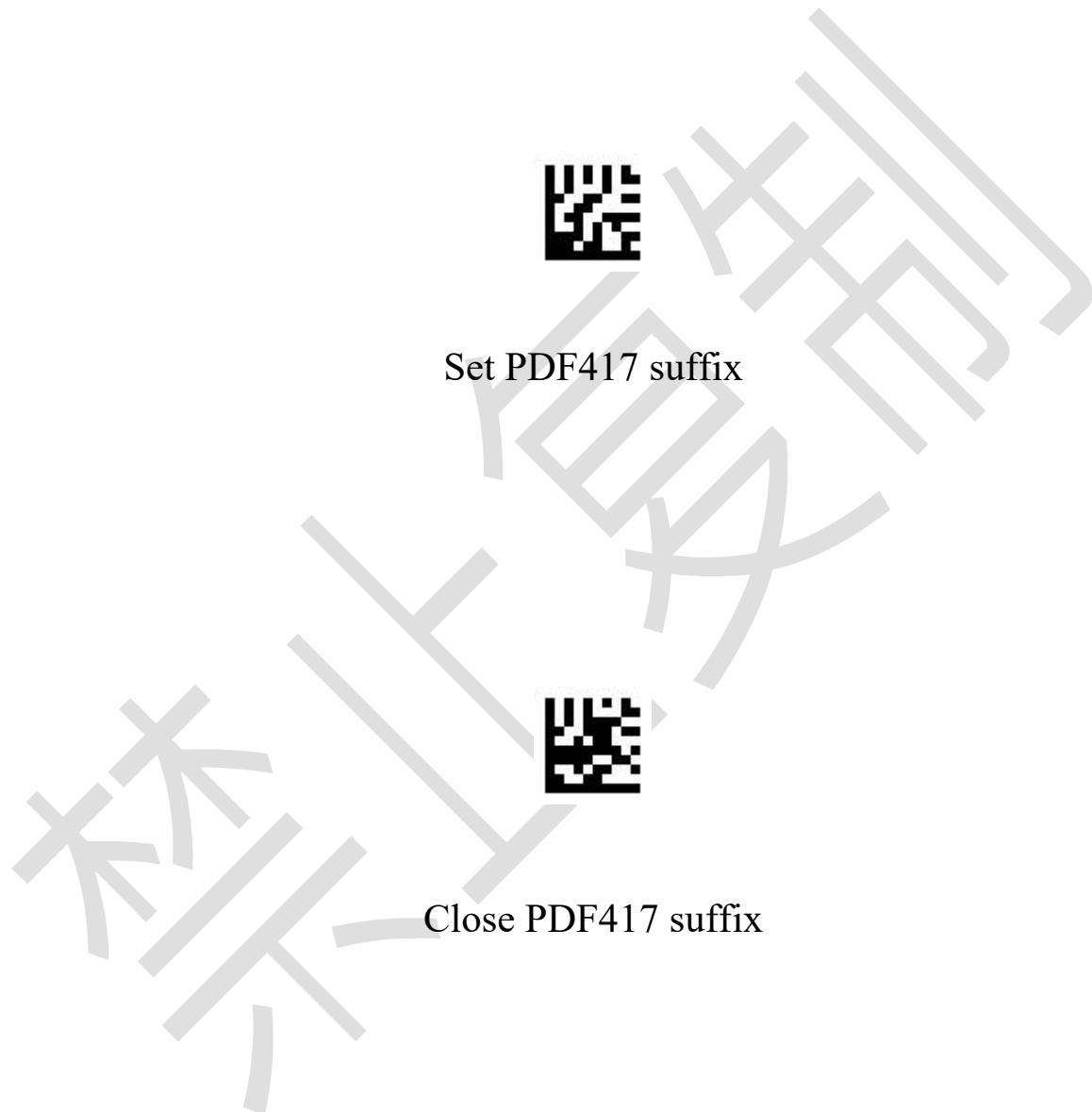


End Setting

Suffix



Start setting



End Setting

Suffix



Start setting



Set Micro PDF417 suffix



Close Micro PDF417 suffix



End Setting

Suffix



Start setting



Set Data Matrix suffix

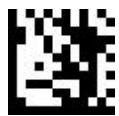


Close Data Matrix suffix

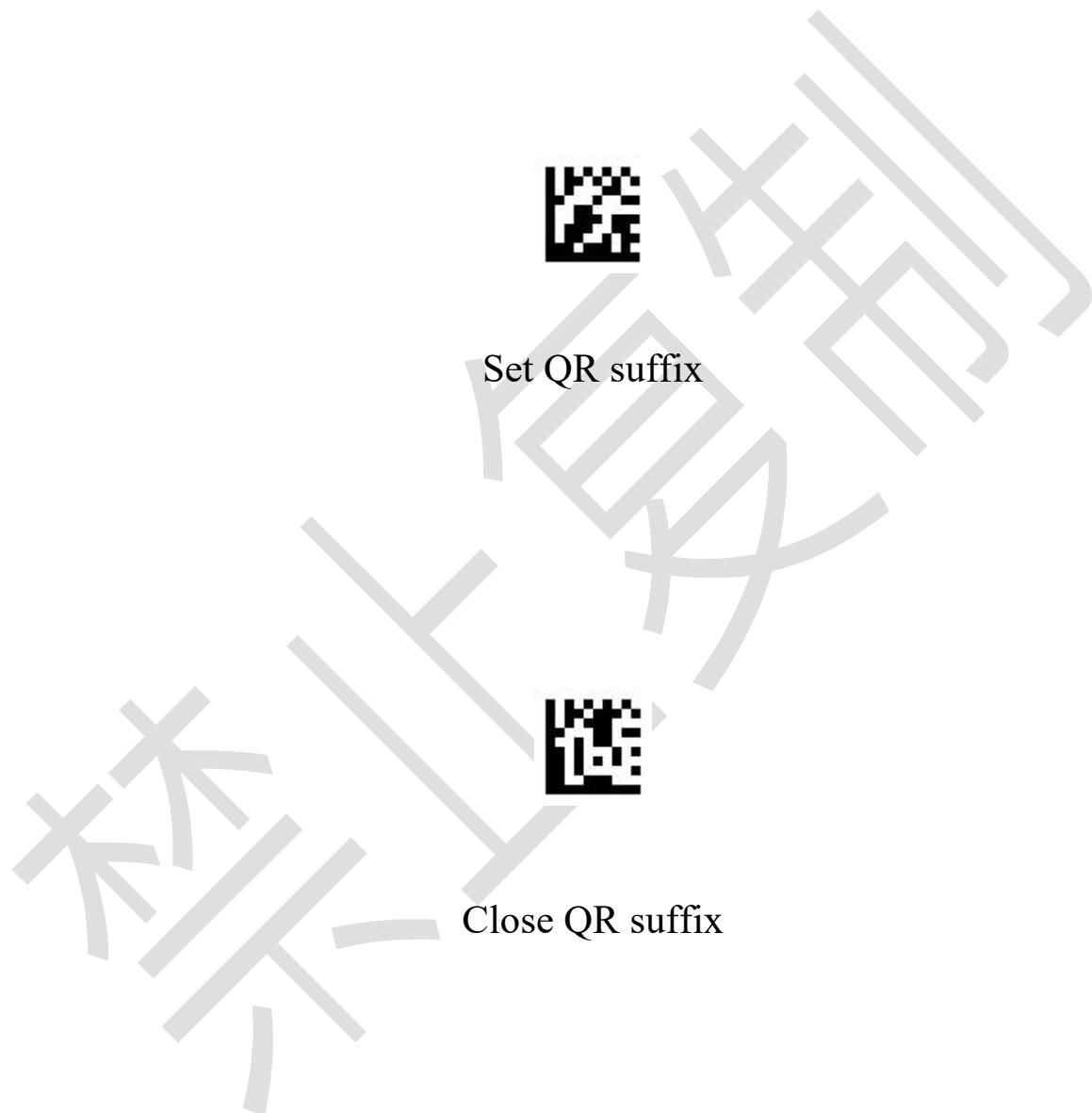


End Setting

Suffix



Start setting



End Setting

Suffix

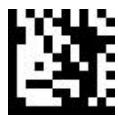


Start setting



End Setting

Suffix



Start setting



End Setting



Suffix



Start setting



End Setting

Barcode identification code



Start setting



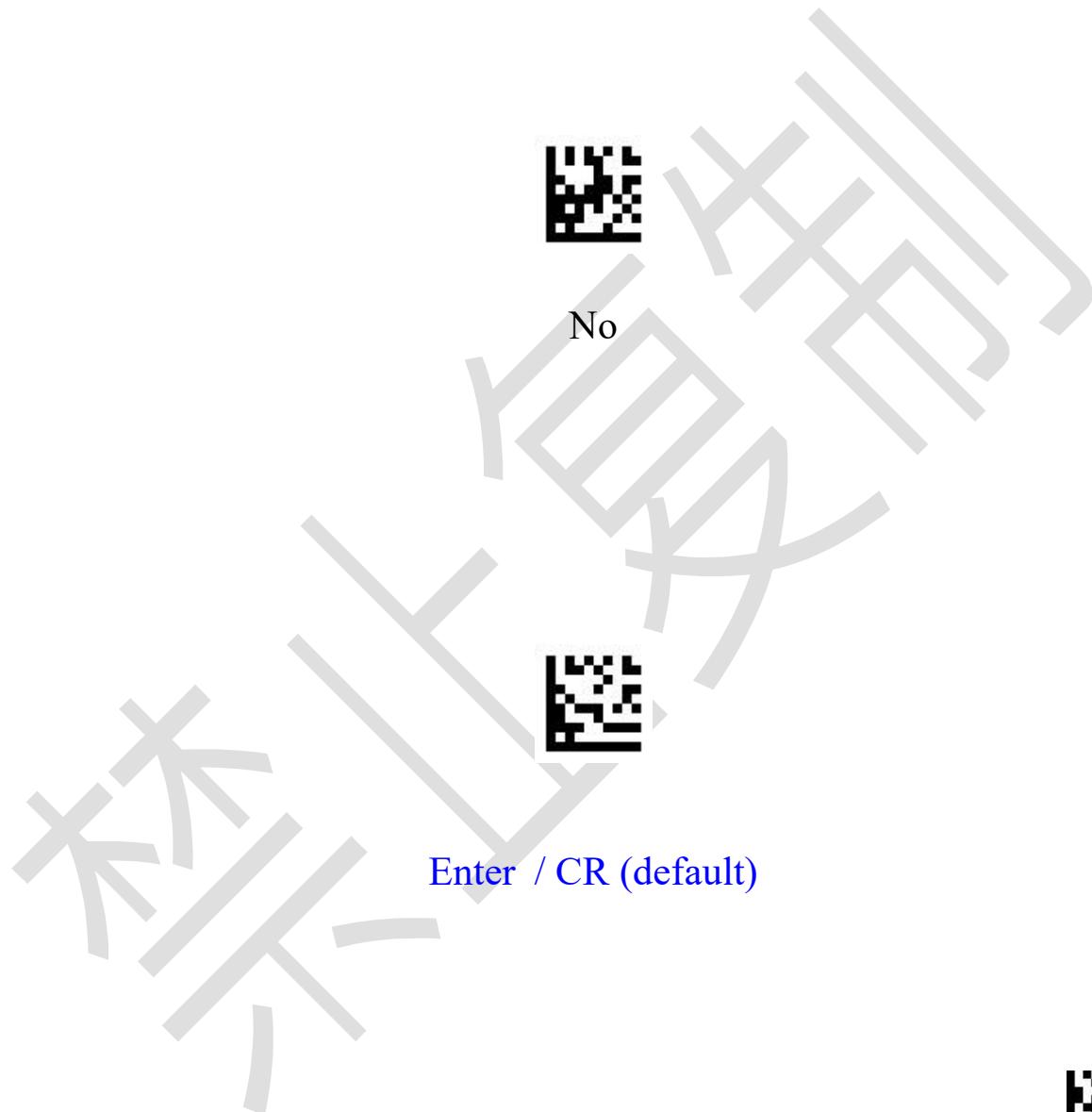
Barcode identification code table

Symbology	Mexxen	AIM
UPC-A	A	E
UPC-E	E	E
EAN-8	FF	E
EAN-13	F	E
Code 128	K	C
Code 39	M	A
Code 93	L	G
Code 32	M	A
Code 11	O	H
Codabar	N	F
Plessey	P	P
MSI / Plessey	a	M
Interleaved 2 of 5	I	I
IATA 2 of 5	Z	R
Matrix 2 of 5	G	X
Straight 2 of 5	S	S
Pharmacode	H	X
GS1 DataBar 14	RS	e
GS1 DataBar Expanded	RX	e
GS1 DataBar Limited	RL	e
Composite CC-A	m	e
Composite CC-B	n	e
Composite CC-C	i	e
PDF417	r	L
Micro PDF417	s	L
Data Matrix	t	d
QR	u	Q
Micro QR	j	Q
Aztec	e	Z
MaxiCode	v	U

Suffix



Start setting

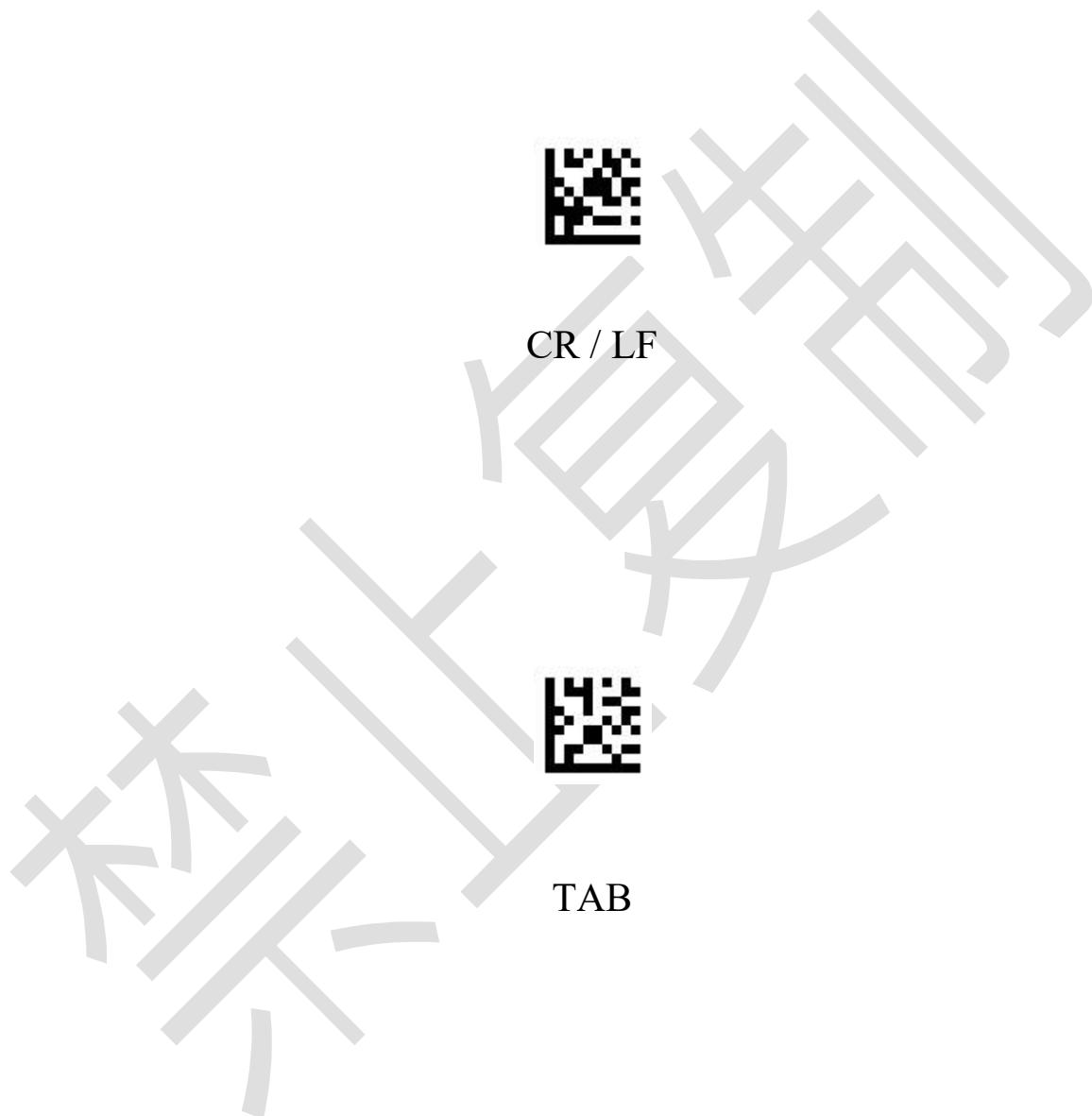


End Setting

Suffix



Start setting

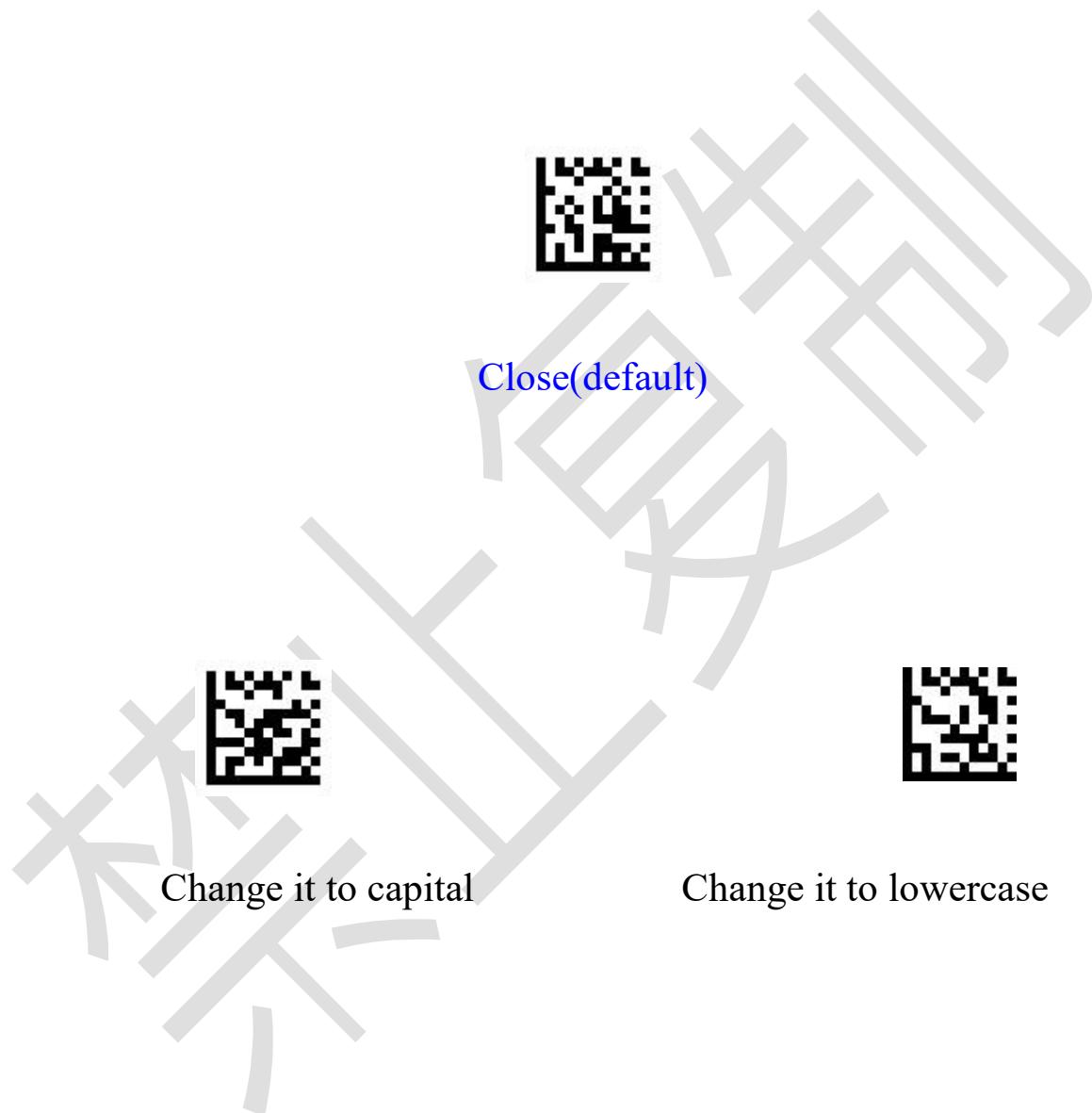


End Setting

Letter case conversion



Start setting



End Setting



Caps lock



Start setting



End Setting

GS element conversion

Convert the GS element to the other ASCII Code in keyboard mode

Set GS element to # output:

1. Scan "start setting"
2. Scan "convert GS word element"
3. Scan the ASCII Code table, with the # Set code
4. Scan "end setting"

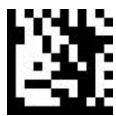
Set the GS element to return output:

1. Scan "Start setting"
2. Scan "convert GS word element"
3. Scan the ASCII Code table and return the enter setting code
4. Scan "end setting"

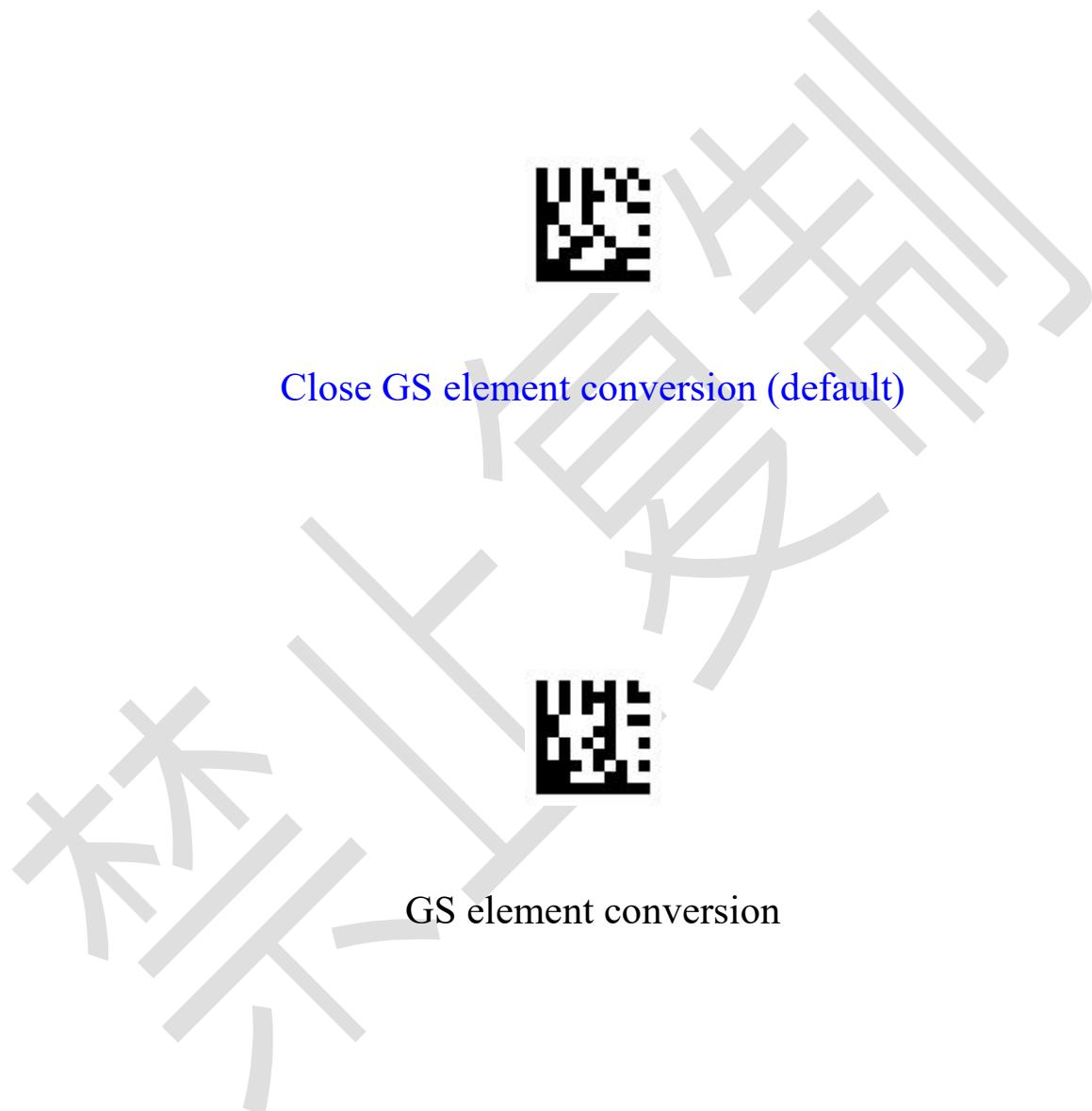
Recover GS word element default value

1. Scan "start setting"
2. Scan "Close the GS element conversion"
3. Scan "end setting"

GS element conversion



Start setting

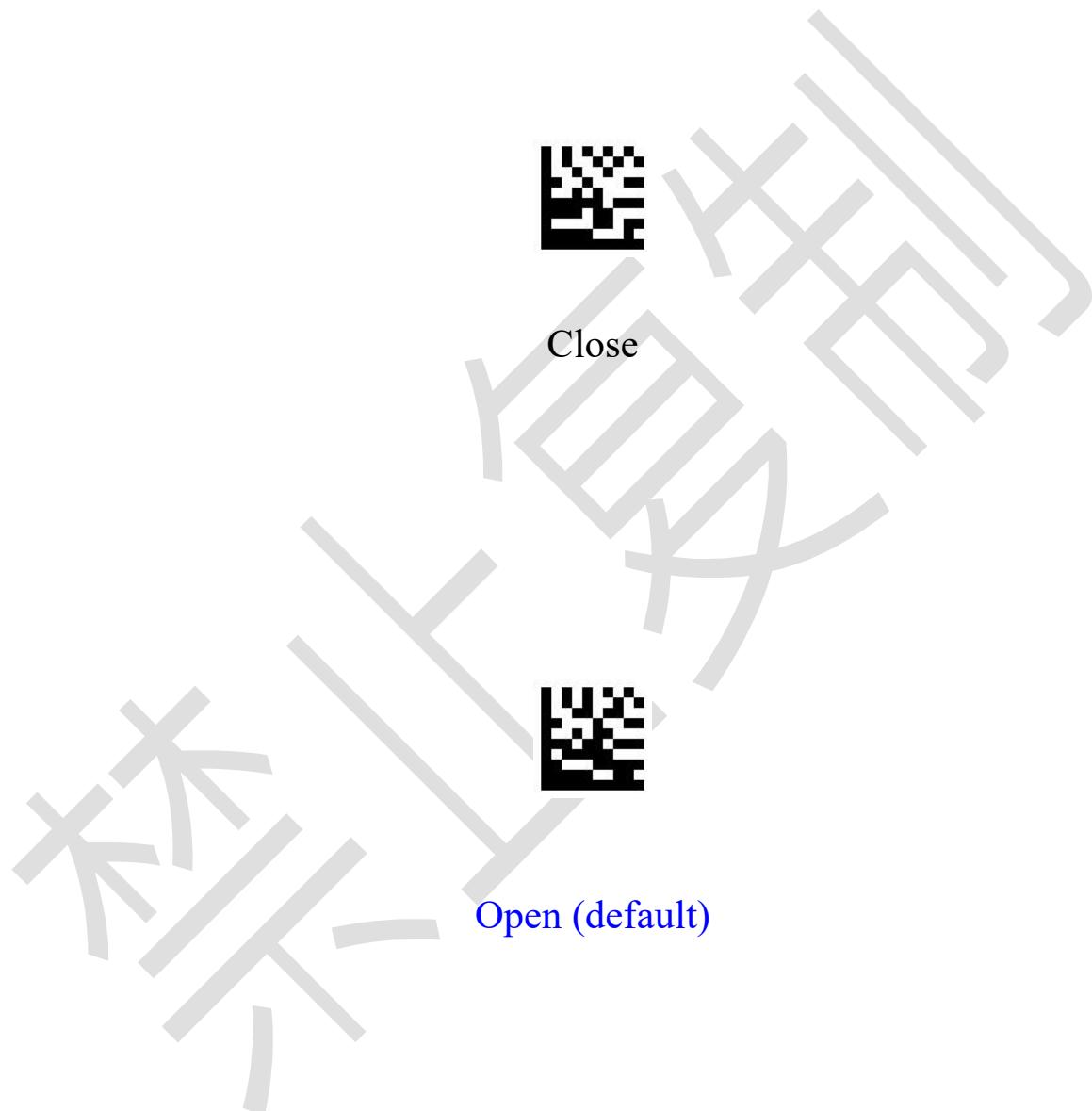


End Setting

Function key mapping



Start setting

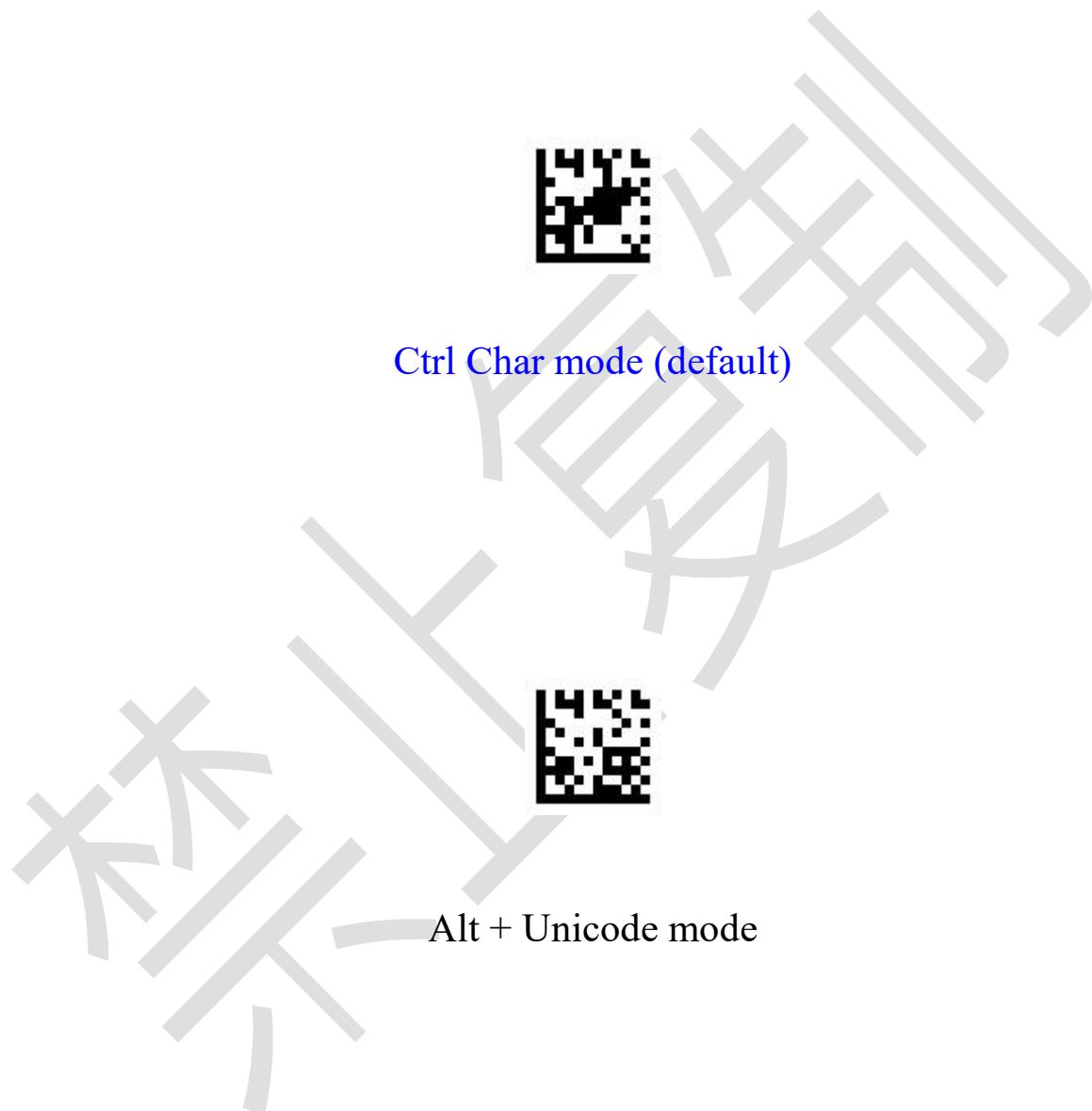


End Setting

Function key mapping



Start setting



End Setting

String command

Transfer and receive format, feedback message

Instruction format: The following are the instruction transfer and column receiving format

Length (1 Byte)	Source (1 Byte)	ExID (1 Byte)	ExCMD (1 Byte)	Data (MAX 32 Bytes)	High Byte of Checksum (1 Byte)	Low Byte of Checksum (1 Byte)
--------------------	--------------------	------------------	-------------------	------------------------	--------------------------------------	-------------------------------------

Length: Data length without Checksum (minimum of 5 bits; max. 36 bits) Source: 0x57 means suffix sent to decoder or 0x52 indicates decoder sent to

Suffix ExID: Instruction identification code

ExCMD: Instructions

Data (MAX 32 Bytes): setting code up to 32 Bytes

High Byte of Checksum: Checksum high bit

Low Byte of Checksum: The Checksum low bit

Checksum calculation method

Checksum = $0x10000 - [\text{Length}] - [\text{Source}] - [\text{ExID}] - [\text{ExCMD}] - [D1 + D2 + D3 + \dots]$

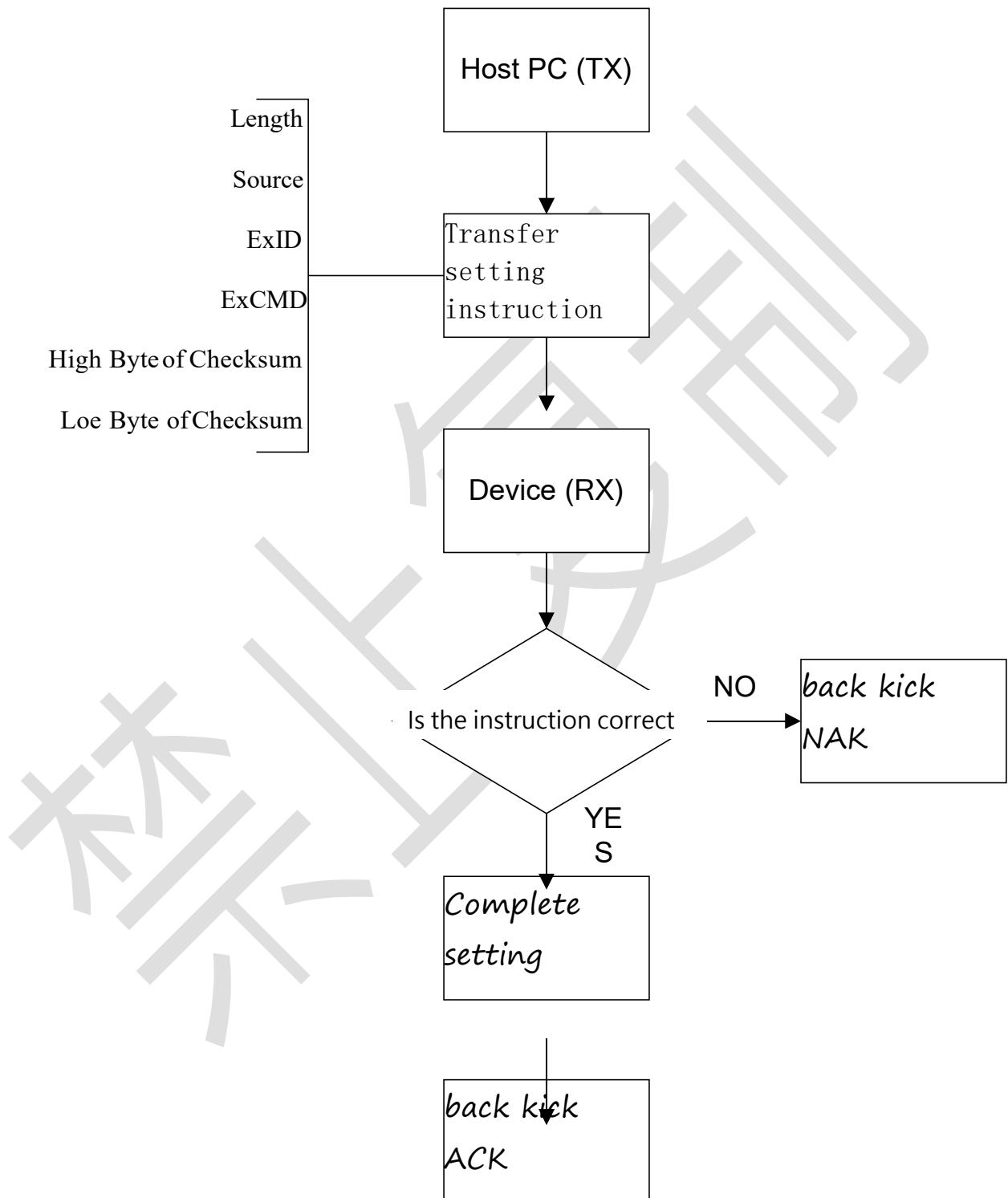
Feedback message: When suffix transfers the instruction to the device, the device will transfer the following message so that suffix can judge the success or failure. If the instruction is successful, the following 5 bytes sixteen data (ACK) will be transferred to suffix.

52	A0	EC	FE	74
----	----	----	----	----

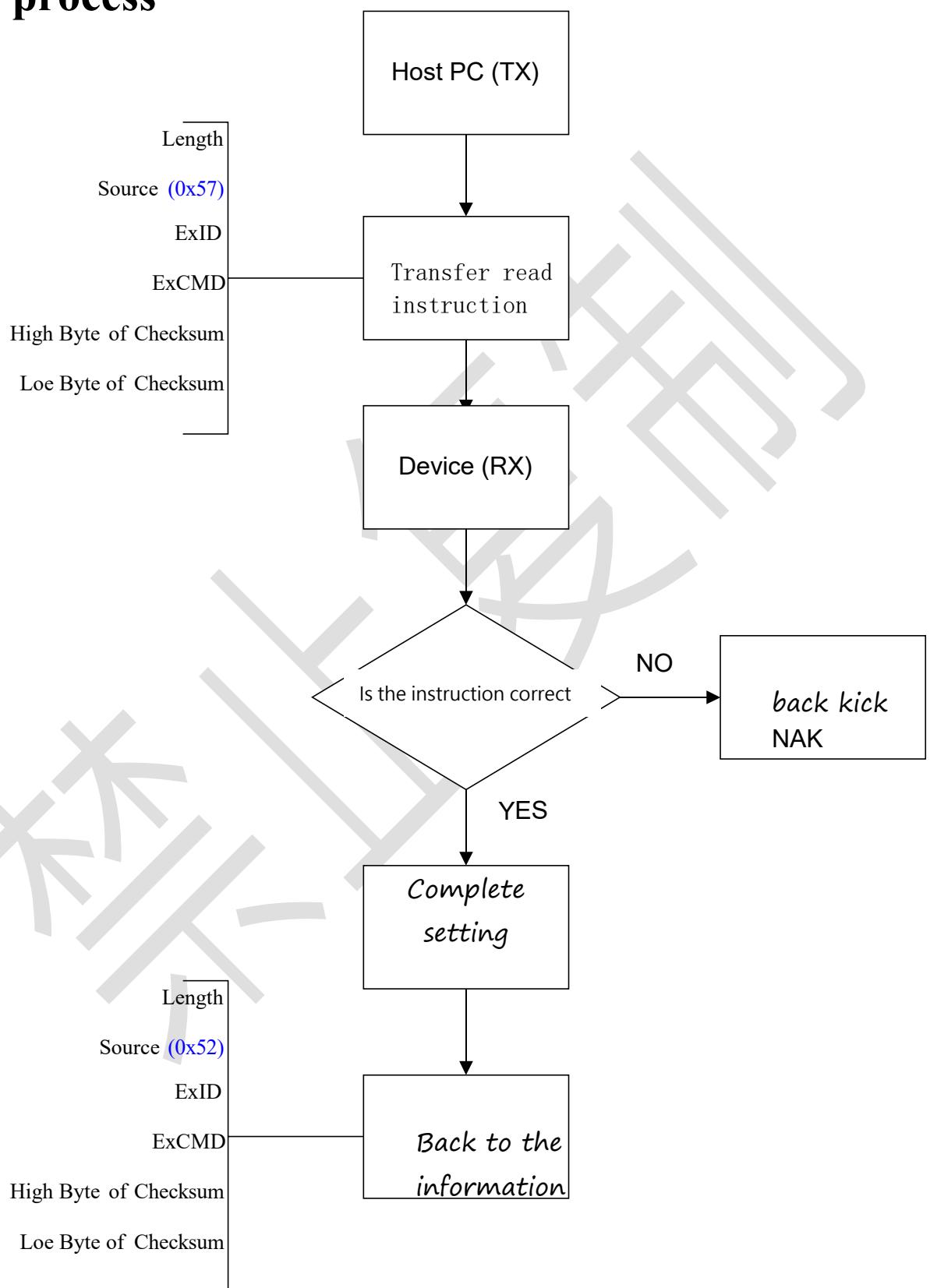
If the setting fails, transfer the following 5 bytes hexadecimal data (NAK) to suffix.

52	A0	E0	FE	80
----	----	----	----	----

Set process



Read process



Order set

function	ID	CMD	Data
Confirm communication status	0E	0D	01
Read version	0E	0D	02
Read scan mode	0E	0D	03
Read scan status	0E	0D	04
Read decoding result	0E	0D	05
ACK echo	Open	A0	00
	Close	A0	00
scanning control	Start scanning	A0	01
	Stop scanning	A0	01
Storage setting	A0	08	01
Restore default	A1	01	0x0F
scan mode	Key scan	A1	02
	Auto scan	A1	02
	Continuous scanning	A1	02
Sight light	Close	A1	03
	Scanning open	A1	03
	Always open	A1	03

Function	ID	CMD	Data
Supplementary light operating mode	Close	A1	04
	Scanning open	A1	04
	Always open	A1	04
Buzzer	Open	A1	05
	Close	A1	05
Decoding time	No limit	A1	06
	5 Second	A1	06
	10 Second	A1	06
Sleep time	Not sleep	A1	07
	After 1 second	A1	07
	After 2 second	A1	07
	After 3 second	A1	07
	After 5 second	A1	07
	After 7 second	A1	07
	After 10 second	A1	07
	After 15 second	A1	07

Function	ID	CMD	Data
Same — code read interval	Close	A1	08
	Not read the same code	A1	08
	100 millisecond	A1	08
	200 millisecond	A1	08
	300 millisecond	A1	08
	500 millisecond	A1	08
	1 second	A1	08
	2 second	A1	08
	3 second	A1	08
	4 second	A1	08
Supplementary light intensity	5 second	A1	08
	Low brightness	A1	09
	Middle brightness	A1	09
Automatic sensing sensitivity	High brightness	A1	09
	low sensitivity	A1	0A
	Medium sensitivity	A1	0A
	high sensitivity	A1	0A

	Function	ID	CMD	Data
Decode data check	Close	A1	0B	01
	Read two times	A1	0B	02
	Read three times	A1	0B	03
Decode message	Open	A2	01	0E
	Close	A2	01	0D
Barcode identification code	Close	A2	02	00
	AIM ID	A2	02	01
	MEXXEN ID	A2	02	02
Suffix	No	A2	03	01
	CR/LF	A2	03	02
	CR	A2	03	03
	TAB	A2	03	04
Open All code system read	B0		01	0E
Close all barcode	B0		01	0D
Only open 1D code	B0		01	01
Only open 2D code	B0		01	02
Close1D code	B0		01	03
Close 2D code	B0		01	04

Function		ID	CMD	Data
UPC / EAN 2 / 5-bit additional code	open	B0	02	0E
	Close	B0	02	0D
UPC A63+	Open	B1	01	0E
	Close	B1	01	0D
	Transfer first bit	B1	02	0E
	Not transfer first bit	B1	02	0D
	Open check code	B1	03	0E
	Close check code	B1	03	0D
	Opening EAN-13 transfer	B1	04	0E
	Closing EAN-13 transfer	B1	04	0D

	Function	ID	CMD	Data
UPC E	Open	B2	01	0E
	Close	B2	01	0D
	Transfer first bit	B2	02	0E
	Not transfer first bit	B2	02	0D
	Open check code	B2	03	0E
	Close check code	B2	03	0D
	Opening UPC A transfer	B2	04	0E
	Closing UPC A transfer	B2	04	0D
EAN 8	Open	B3	01	0E
	Close	B3	01	0D
	Transfer first bit	B3	02	0E
	Not transfer first bit	B3	02	0D
	OpeningEAN-13 transfer	B3	03	0E
	Closing EAN-13 transfer	B3	03	0D

	Function	ID	CMD	Data
EAN 13	Open	B4	01	0E
	Close	B4	01	0D
	Transfer first bit	B4	02	0E
	Not transfer first bit	B4	02	0D
	Opening ISBN transfer	B4	03	0E
	Closing ISBN transfer	B4	03	0D
	Opening ISSN transfer	B4	04	0E
	Closing ISSN transfer	B4	04	0D
Code 128	Open	B5	01	0E
	Close	B5	01	0D
Code 39	Open	B6	01	0E
	Close	B6	01	0D
	Open ASCII	B6	02	0E
	Close ASCII	B6	02	0D
	Transfer prefix/suffix	B6	03	0E
	No transfer prefix/suffix	B6	03	0D

Function		ID	CMD	Data
Code 39	Not check	B6	04	01
	Check and transfer	B6	04	02
	Check not to transfer	B6	04	03
Code 93	Open	B7	01	0E
	Close	B7	01	0D
Code 32	Open	B8	01	0E
	Close	B8	01	0D
Code 11	Open	B9	01	0E
	Close	B9	01	0D
Codabar	Open	BA	01	0E
	Close	BA	01	0D
	Not check	BA	02	01
	Check and transfer	BA	02	02
	Check not transfer	BA	02	03
	Transfer prefix/suffix	BA	03	0E
	Not transfer prefix/suffix	BA	03	0D

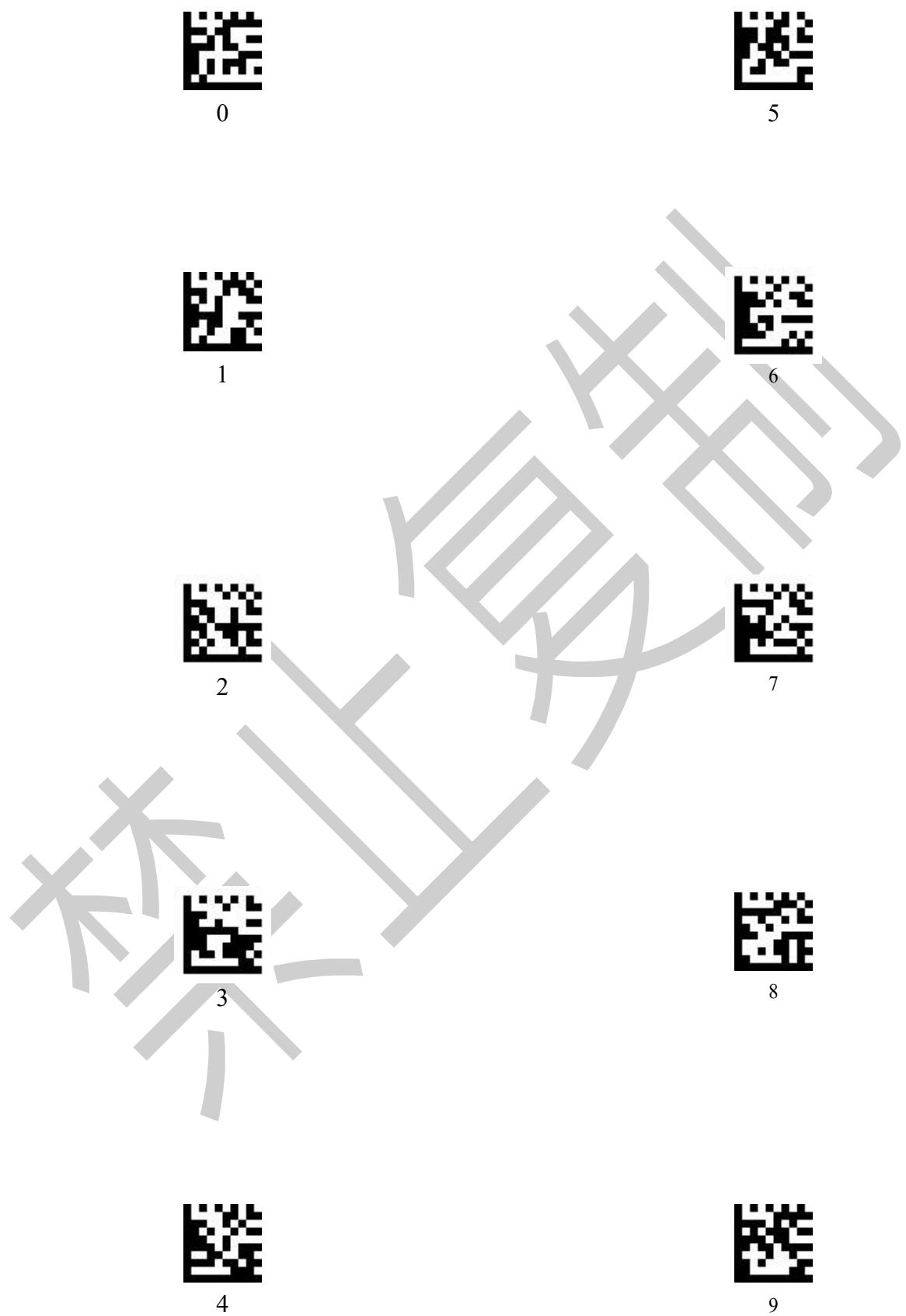
Function		ID	CMD	Data
Plessey	Open	BB	01	0E
	Close	BB	01	0D
MSI Plessey	Open	BC	01	0E
	Close	BC	01	0D
	Not check	BC	02	01
	Mod 10 check	BC	02	02
	Mod 10/10 check	BC	02	03
	Mod 11/10 check	BC	02	04
	Transfer check bit	BC	03	0E
	Not transfer check bit	BC	03	0D
Interleaved 2 of 5	Open	BD	01	0E
	Close	BD	01	0D
	Not check	BD	02	01
	Check and transfer	BD	02	02
	Check not transfer	BD	02	03

Function		ID	CMD	Data
IATA 2 of 5	Open	BE	01	0E
	Close	BE	01	0D
Matrix 2 of 5	Open	BF	01	0E
	Close	BF	01	0D
Straight 2 of 5	Open	D0	01	0E
	Close	D0	01	0D
Pharmacode	Open	D1	01	0E
	Close	D1	01	0D
GS1 DataBar 14	Open	D2	01	0E
	Close	D2	01	0D
GS1 DataBar 14 Stacked	Open	D2	02	0E
	Close	D2	02	0D
GS1 DataBar Expanded	Open	D3	01	0E
	Close	D3	01	0D
GS1 DataBar Expanded Stacked	Open	D3	02	0E
	Close	D3	02	0D

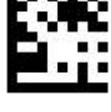
Function		ID	CMD	Data
GS1 DataBar Limited	Open	D4	01	0E
	Close	D4	01	0D
CC-A	Open	D5	01	0E
	Close	D5	01	0D
CC-B	Open	D6	01	0E
	Close	D6	01	0D
CC-C	Open	D7	01	0E
	Close	D7	01	0D
PDF 417	Open	D8	01	0E
	Close	D8	01	0D
Micro PDF 417	Open	D9	01	0E
	Close	D9	01	0D
Data Matrix	Open	DA	01	0E
	Close	DA	01	0D
Rectangular Data Matrix	Open	DA	03	0E
	Close	DA	03	0D

Function		ID	CMD	Data
QR	Open	DB	01	0E
	Close	DB	01	0D
Micro QR	Open	DC	01	0E
	Close	DC	01	0D
Aztec	Open	DD	01	0E
	Close	DD	01	0D
MaxiCode	Open	DE	01	0E
	Close	DE	01	0D

Appendix I decimalism



Appendix II ASCII Code Table

Hexadecimal	Decimalism	ASCII	Function Key Mapping		
			Close	Ctrl Char mode	Alt+Unicode mode
00	0	NUL	Null	Ctrl+@	Alt + 000
01	1	SOH	Home	Ctrl+A	Alt + 001
02	2	STX	End	Ctrl+B	Alt + 002
03	3	ETX	Up Arrow	Ctrl+C	Alt + 003
04	4	EOT	Down Arrow	Ctrl+D	Alt + 004
05	5	ENQ	Left Arrow	Ctrl+E	Alt + 005
06	6	ACK	Right Arrow	Ctrl+F	Alt + 006
07	7	BEL	Null	Ctrl+G	Alt + 007
08	8		Backspace	Backspace	Alt + 008
09	9		TAB	TAB	Alt + 009
0A	10	LF	Null	Ctrl+J	Alt + 010
0B	11	VT	Null	Ctrl+K	Alt + 011
0C	12	FF	Null	Ctrl+L	Alt + 012

0D	13		Enter	Enter	Enter
0E	14	S O	Page Up	Ctrl+N	Alt + 014
0F	15	S I	Page Down	Ctrl+O	Alt + 015

Hexadecimal	Decimalism	ASCII	Function Key Mapping		
			Clos e	Ctrl Char mode	Alt+Unicode mode
10	16	DLE	F11	Ctrl+P	Alt + 016
11	17	DC1	Null	Ctrl+Q	Alt + 017
12	18	DC2	Null	Ctrl+R	Alt + 018
13	19	DC3	Null	Ctrl+S	Alt + 019
14	20	DC4	Null	Ctrl+T	Alt + 020
15	21	NA K	F12	Ctrl+U	Alt + 021
16	22	SYN	F1	Ctrl+V	Alt + 022
17	23	ETB	F2	Ctrl+W	Alt + 023
18	24	CA N	F3	Ctrl+X	Alt + 024
19	25	EM	F4	Ctrl+Y	Alt + 025
1A	26	SUB	F5	Ctrl+Z	Alt + 026
1B	27	ESC	F6	Ctrl+[Alt + 027
1C	28	FS	F7	Ctrl+\	Alt + 028
1D	29	GS	F8	Ctrl+]	Alt + 029
1E	30	RS	F9	Ctrl+^	Alt + 030
1F	31	US	F10	Ctrl+_	Alt + 031

Hexadecimal	decimalism	ASCII	
20	32	SPACE	
21	33	!	
22	34	"	
23	35	#	

Hexadecimal	Decimalism	ASCII	
24	36	\$	
25	37	%	
26	38	&	
27	39	,	

Hexadecimal	Decimalism	ASCII	
28	40	(
29	41)	
2A	42	*	
2B	43	+	

Hexadecimal	Decimalism	ASCII	
2C	44	,	
2D	45	-	
2E	46	.	
2F	47	/	

Hexadecimal	Decimalism	ASCII	
30	48	0	
31	49	1	
32	50	2	
33	51	3	

Hexadecimal	Decimalism	ASCII	
34	52	4	
35	53	5	
36	54	6	
37	55	7	

Hexadecimal	Decimalism	ASCII	
38	56	8	
39	57	9	
3A	58	:	
3B	59	;	

Hexadecimal	Decimalism	ASCII	
3C	60	<	
3D	61	=	
3E	62	>	
3F	63	?	

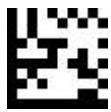
Hexadecimal	Decimalism	ASCII	
40	64	@	
41	65	A	
42	66	B	
43	67	C	

Hexadecimal	Decimalism	ASCII	
44	68	D	
45	69	E	
46	70	F	
47	71	G	

Hexadecimal	Decimalism	ASCII	
48	72	H	
49	73	I	
4A	74	J	
4B	75	K	

Hexadecimal	Decimalism	ASCII	
4C	76	L	
4D	77	M	
4E	78	N	
4F	79	O	

Hexadecimal	Decimalism	ASCII	
50	80	P	
51	81	Q	
52	82	R	
53	83	S	

Hexadecimal	Decimalism	ASCII	
54	84	T	
55	85	U	
56	86	V	
57	87	W	

Hexadecimal	Decimalism	ASCII	
58	88	X	
59	89	Y	
5A	90	Z	
5B	91	[

Hexadecimal	Decimalism	ASCII	
5C	92	\	
5D	93]	
5E	94	^	
5F	95	-	

Hexadecimal	Decimalism	ASCII	
60	96	'	
62	97	a	
62	98	b	
63	99	c	

Hexadecimal	Decimalism	ASCII	
64	100	d	
65	101	e	
66	102	f	
67	103	g	

Hexadecimal	Decimalism	ASCII	
68	104	h	
69	105	i	
6A	106	j	
6B	107	k	

Hexadecimal	Decimalism	ASCII	
6C	108	I	
6D	109	m	
6E	110	n	
6F	111	o	

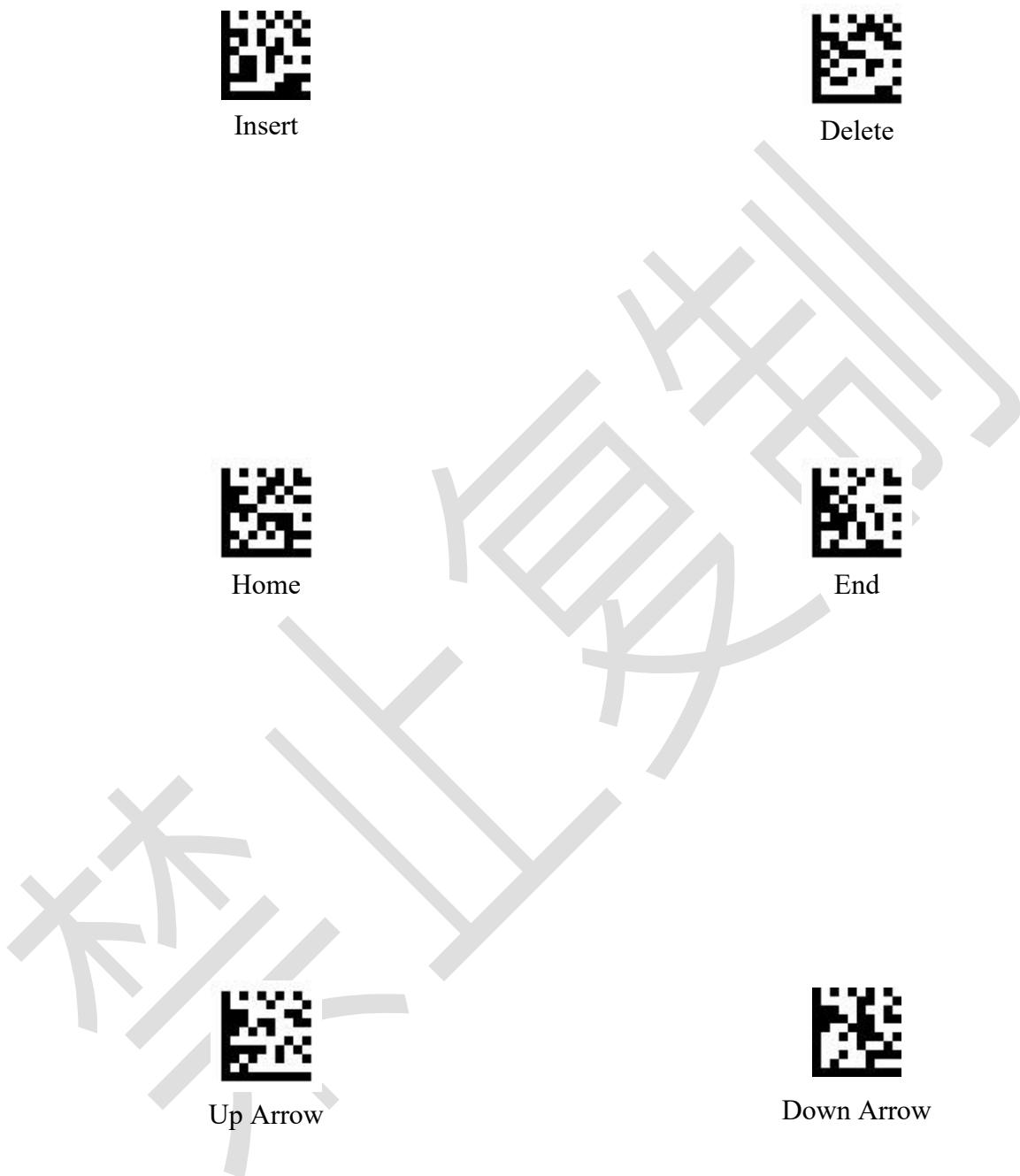
Hexadecimal	Decimalism	ASCII	
70	112	p	
71	113	q	
72	114	r	
73	115	s	

Hexadecimal	Decimalism	ASCII	
74	116	t	
75	117	u	
76	118	v	
77	119	w	

Hexadecimal	Decimalism	ASCII	
78	120	x	
79	121	y	
7A	122	z	
7B	123	{	

Hexadecimal	Decimalism	ASCII	
7C	124		
7D	125	{	
7E	126	~	
7F	127	Delete	

Appendix III Function Key





Left Arrow



Right Arrow



Shift



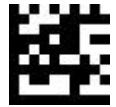
ESC



Ctrl



Alt



Page Up



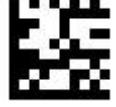
Page Down



F1



F2



F3



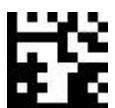
F4



F5



F6



F7



F8



F9



F10



F11



F12