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BARCODE SCANNER
SAT LI102NW+

User Manual

Notes

- **Please read this user manual carefully before using this barcode scanner.**

- **The working voltage of the scanner is 5V. Please use the company's original connecting cable and power adapter to ensure the normal operation of the scanner.**

- **Copyright and patent rights. This product and its accessories (including firmware, setup software, documentation, appearance, etc.) have applied for multiple patents, copyrights and software copyrights.**

- **The contents of this manual are subject to change without prior notice.**

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Restore factory settings and information query

Restore factory settings

If the barcode scanner does not work properly due to settings, please restore the factory settings.

Restore factory settings

Information query

Firmware version number query

Display battery level

2.4G pairing method

A: Turn on the scanner to scan "2.4G mode". The green light of the scanner flashes.

2.4G mode

B: Scan the "Receiver Forced Pairing" barcode to enter the pairing state, and the green light flashes quickly.

Receiver Forced Pairing

C: Plug in the receiver, hear a "beep" sound, the pairing is successful, and the green light is always on.

Note: Double-click the scanner to exit the pairing state

Wireless mode

In wireless mode, the scanned data is directly transmitted to the computer via wired or wireless. After the transmission is successful, the scanner will emit a low-frequency short tone and the green indicator light will flash once. If the transmission fails, 3 low-frequency short beeps will sound to alert, and the green light will flash 3 times. In wireless mode, if the transmission fails, the scanned barcode will be lost.

Wireless mode

Storage mode

If the scanner works beyond the wireless transmission range, it is recommended to use storage mode. In Storage mode, the scanned data is stored in the internal storage of the scanner.

In storage mode, after scanning a barcode, the scanner will emit a short beep (frequency first low and then high), and at the same time the green light will flash once, and the scanned barcode will be automatically stored in the scanner memory. If the internal storage is full, the scanner will emit 3 low-frequency short beeps to alert, and the green light will flash 3 times.

Storage mode

Show Storage Quantity

Check the number of barcodes stored in the storage area by scanning the "Show Storage Quantity" barcode:

Show Storage Quantity

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Data Upload

Upload storage data by scanning the "Data Upload" barcode. After the data is uploaded, the barcode stored in the scanner will not be automatically deleted, Users can upload storage data multiple times by scanning "Data Upload".

Data Upload

Note: When uploading data, please try to ensure a good wireless signal connection, or upload with a data cable connected.

Clear Storage Data

Clear the barcode data in the storage area by scanning the "Clear Storage Data" barcode. After the barcode is cleared, you will no longer be able to upload it. Please confirm whether the data has been uploaded before clearing it.

Clear Storage Data

Scan mode settings

Manual mode: Press the button, the scanner emits laser and starts decoding. After decoding is completed, the scanner automatically turns off the laser and sends a prompt signal.

Manual mode*

Automatic sensing mode: When an object approaches, the scanner automatically turns on the laser to read the barcode. The scanner will not start the next scan until the current object leaves the automatic sensing area. In auto-sensing mode, scanning can also be triggered by pressing the button.

Auto-sensing mode

Continuous scanning mode: The scanner's laser is always on. As long as a readable barcode enters the reading area, the barcode data will be automatically read. But only after the currently read barcode has left, the next barcode can be read.

Continuous scanning mode

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Buzzer volume settings

||||||||||||| |||| ||| |||||||||

Loud*

||||||||||||| |||| ||| |||||||||

Mid

||||||||||||| |||| ||| |||||||||

Small

||||||||||||| |||| ||| |||||||||

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Sleep time settings

The scanner will automatically shut down if there is no operation within the specified time.

||||||||||||||||||||||||||||||||||||||||

1 minute

||||||||||||||||||||||||||||||||||||||||

5 minutes

||||||||||||||||||||||||||||||||||||||||

30 minutes

||||||||||||||||||||||||||||||||||||||||

No sleep

||||||||||||||||||||||||||||||||||||||||

Shut down

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Case conversion

Convert to lowercase

Convert to uppercase

Convert between upper and lower case

Cancel case conversion

Bluetooth HID mode pairing

Method 1: Manually enter Bluetooth HID mode

A: Start the scanner, press and hold for 8 seconds to enter Bluetooth HID pairing mode, the blue light flashes quickly.

B: Turn on Bluetooth in the device and search for Barcode Scanner HID.

C: Click on the Bluetooth device to enter the pairing state

D: There will be a "beep" sound when pairing is successful, and the blue light is always on. In Bluetooth mode, the Android device needs to switch to the English input method.

Method 2: Scan to enter Bluetooth HID mode

A: Scan Bluetooth HID mode

Bluetooth HID mode

B: Scan "Bluetooth Pairing" to enter the waiting state, and the blue light flashes quickly.

Bluetooth Pairing

C: Turn on Bluetooth in the device and search for Barcode Scanner HID

D: Click on the Bluetooth device to enter the pairing state

F: There will be a "beep" sound when pairing is successful, and the blue light will always be on.

Bluetooth SPP mode pairing (Android devices)

A: Scan the Bluetooth SPP mode barcode

Bluetooth SPP mode

B: Scan "Bluetooth Pairing" to enter the waiting state, the blue light flashes

C: Connect Bluetooth in the customized software and search for Barcode Scanner SPP

D: There will be a "beep" sound when pairing is successful, and the blue light will always be on.

Bluetooth BLE mode pairing (IOS devices)

A: Scan the Bluetooth BLE mode barcode

Bluetooth BLE mode

B: Scan "Bluetooth Pairing" to enter the waiting state, the blue light flashes

C: Connect Bluetooth in the customized software and search for Barcode Scanner SPP

D: There will be a "beep" sound when pairing is successful, and the blue light will always be on.

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Bluetooth transmission speed setting

Select the desired transmission rate (rate selection is related to reading barcodes)

Fast speed

Mid speed

Low speed

Ultra-low speed

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Bluetooth Personalization

Select the personalized barcode you need (please operate with caution before reading the following instructions thoroughly)

How to set the Bluetooth name: first scan the Set Bluetooth name barcode, then scan a barcode, and the barcode will be set as the Bluetooth name.

Note: a) The name can only be set up to 16 bytes. If the name barcode exceeds 16 bytes, the scanner will only take the first 16 bytes as the Bluetooth name.

b) The complete name of Bluetooth includes: Bluetooth name + protocol type. Only the modification of Bluetooth name is supported. After modifying the Bluetooth name, the names of all Bluetooth protocols have been changed.

For example: If the Bluetooth name is set to Scanner, the Bluetooth HID name is Scanner HID, the SPP name is Scanner SPP, and the BLE name is Scanner BLE.

Set Bluetooth name

Query the current Bluetooth name

Read Bluetooth name

long press to enter HID search settings

Allow long press to enter HID search

Disable long press to enter HID search.

HID keyboard pop up/hide

When the Bluetooth HID connection is successful and the English keyboard is used, double-click to pop up/hide the keyboard. (Effective in IOS system)

HID keyboard pop up/hide

Enable double-click to pop up/hide HID keyboard

Disable double-click to pop up/hide HID keyboard

Terminator add settings

Select what you want to add at the end

Add a carriage return at the end

Add newline at the end

Add carriage return and line feed at the end

Add Tab at the end

Cancel

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Add character settings before and after the barcode

To add a prefix or suffix, first scan "set prefix" or "set suffix", then scan the prefix and suffix character table, one by one, and add up to 32 bytes. For more settings, refer to Appendix 1-character table.

To cancel the prefix and suffix, scan "set prefix" or "set suffix" without scanning the character table.

Set prefix

Set suffix

Example 1: Add the character "HY" before barcode 12345

    Step 1: Scan "Set Prefix".

Set Prefix

    Step 2: Find the barcode settings corresponding to "H" and "Y" in the character table.

H

Y

    At this time, the scanner output of scanning barcode 12345 is HY12345.

Example 2: Add the character "HY" after the barcode 12345

  Step 1 Scan "Set Suffix".

Set Suffix

Step 2: Find the barcode settings corresponding to "H" and "Y" in the character table.

H

Y

At this time, the scanner output of scanning barcode 12345 is 12345HY.

Hidden character settings before and after barcode

To hide the barcode, first scan before or after the hidden barcode, then scan the hidden digits, hiding up to 4 bytes.

Before hiding barcode

After hiding the barcode

Hide 1 digit

Hide 2 digits

Hide 3 digits

Hide 4 digits

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Language settings

American English

German

French

Spanish

Italian

Japanese

Belgium

Portugal

United Kingdom (English)

Brazilian Portuguese

Russian

Czech

Turkey Q

Turkey F

Sweden

Mexico (Spain)

Denmark

Norway

Croatia

Switzerland (German)

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Switzerland (French)

Netherlands

Hungary

Poland

Canada (French)

Argentina

Slovakia

International

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Barcode parameter settings

Each type of barcode has its own unique properties, and the barcode scanner can be adjusted to adapt to these property changes through the setting codes in this chapter. The fewer barcode types that have "Enable Reading" turned on, the faster the scanner can read. You can disable the barcode scanner from reading unused barcode types to improve the barcode scanner's performance.

UPC-A

Enable UPC-A*

Disable UPC-A

Turn on check digit*

Turn off check digit

Turn on system characters*

Turn off system characters

Turn on UPCA convert to EAN13

Turn off UPCA convert to EAN13*

UPC-E

Enable UPC-E*

Disable UPC-E

SAT

‖‖‖‖‖‖‖‖‖‖‖‖

Turn on check digit *

‖‖‖‖‖‖‖‖‖‖‖‖

Turn off check digit

‖‖‖‖‖‖‖‖‖‖‖‖

Turn on system characters *

‖‖‖‖‖‖‖‖‖‖‖‖

Turn off system characters

‖‖‖‖‖‖‖‖‖‖‖‖

Turn on UPC-E convert to UPC-A

‖‖‖‖‖‖‖‖‖‖‖‖

Turn off UPC-E convert to UPC-A

EAN-8

‖‖‖‖‖‖‖‖‖‖‖‖

Enable EAN-8*

‖‖‖‖‖‖‖‖‖‖‖‖

Disable EAN-8

‖‖‖‖‖‖‖‖‖‖‖‖

Turn on check digit *

‖‖‖‖‖‖‖‖‖‖‖‖

Turn off check digit

‖‖‖‖‖‖‖‖‖‖‖‖

Turn on system characters *

‖‖‖‖‖‖‖‖‖‖‖‖

Turn off system characters

EAN-13

Enable EAN-13*

Disable EAN-13

Transmit check digit *

Don't Transmit check digit

Turn on EAN-13convert to ISBN

Turn off EAN-13convert to ISBN *

Turn on EAN-13convert to ISSN

Turn off EAN-13convert to ISSN*

Code 128

Enable Code 128*

Disable Code 128

Code 39

Enable Code 39*

Disable Code 39

||||| |||||||||||||||||
Turn on Start and end characters

||||| |||||||||||||||||
Turn off Start and end characters

||||| |||||||||||||||||
Turn on Full ASCII characters *

||||| |||||||||||||||||
Turn off Full ASCII characters

Code 93

||||| |||||||||||||||||
Enable Code 93*

||||| |||||||||||||||||
Disable Code 93

||||| |||||||||||||||||
Turn on check

||||| |||||||||||||||||
Turn off check

Code 11

||||| |||||||||||||||||
Enable Code 11*

||||| |||||||||||||||||
Disable Code 11

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Interleaved 2 of 5

Enable Interleaved 2 of 5*

Disable Interleaved 2 of 5

Matrix 2 of 5

Enable Matrix 2 of 5*

Disable Matrix 2 of 5

Industrial 2 of 5

Enable Industrial 2 of 5*

Disable Industrial 2 of 5

Standard 2 of 5(IATA)

Enable Standard 2 of 5*

Disable Standard 2 of 5

Codabar（NW-7）

Enable Codabar*

Disable Codabar

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Turn on Start and end characters

Turn off Start and end characters

MSI Plessey
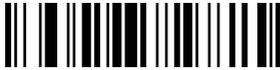
Enable MSI Plessey

Disable MSI Plessey*

GS1 DataBar Limited

Enable RSS Limited

Disable RSS Limited*

GS1 DataBar Omnidirectional

Enable RSS Omnidirectional

Disable RSS Omnidirectional*

China Post（Datalogic 2 of 5）

Enable China Post

Disable China Post*

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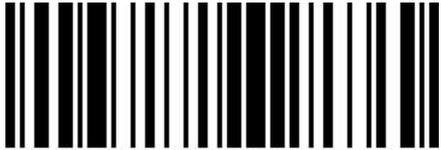
Turn on 2 additional bits

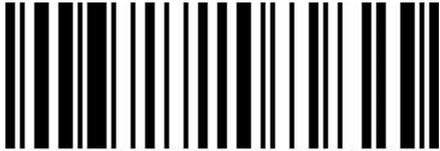Turn on 5 additional bits

Turn on 2 and 5 additional bits

Turn off additional bit*

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Appendix 1 Character table

10 hex	ASCII	Set barcode
32	space	%%20
33	!	%%21
34	"	%%22
35	#	%%23
36	$	%%24
37	%	%%25
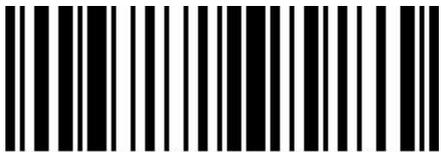
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38	&	%%26
39	'	%%27
40	(	%%28
41	)	%%29
42	*	%%2A
43	+	%%2B

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44	,	%%2C
45	-	%%2D
46	.	%%2E
47	/	%%2F
48	0	%%30
49	1	%%31

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50	**2**	%%32
51	**3**	%%33
52	**4**	%%34
53	**5**	%%35
54	**6**	%%36
55	**7**	%%37

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56	**8**	%%38
57	**9**	%%39
58	**:**	%%3A
59	**;**	%%3B
60	**<**	%%3C
61	**=**	%%3D

SAT
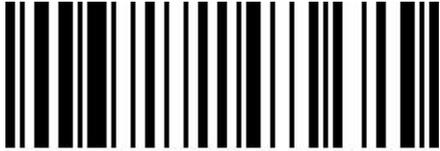
62	>	%%3E
63	?	%%3F
64	@	%%40
65	A	%%41
66	B	%%42
67	C	%%43

SAT
P C B
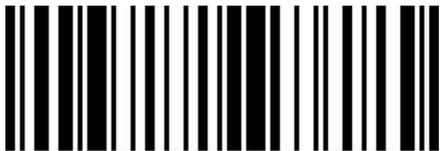
68	D	%%44
69	E	%%45
70	F	%%46
71	G	%%47
72	H	%%48
73	I	%%49

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74	J	%%4A
75	K	%%4B
76	L	%%4C
77	M	%%4D
78	N	%%4E
79	O	%%4F

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80	P	‖‖‖ ‖ ‖‖‖ ‖‖‖ %%50
81	Q	‖‖‖ ‖ ‖‖‖ ‖‖‖ %%51
82	R	‖‖‖ ‖ ‖‖‖ ‖‖‖ %%52
83	S	‖‖‖ ‖ ‖‖‖ ‖‖‖ %%53
84	T	‖‖‖ ‖ ‖‖‖ ‖‖‖ %%54
85	U	‖‖‖ ‖ ‖‖‖ ‖‖‖ %%55

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86	V	%%56
87	W	%%57
88	X	%%58
89	Y	%%59
90	Z	%%5A
91	[	%%5B

SAT
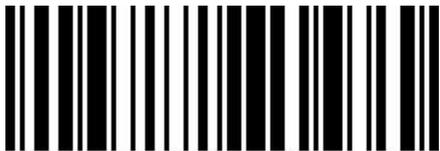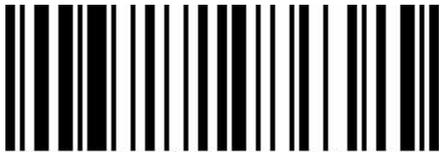
92	\	%%5C
93	]	%%5D
94	^	%%5E
95	_	%%5F
96	`	%%60
97	a	%%61

SAT
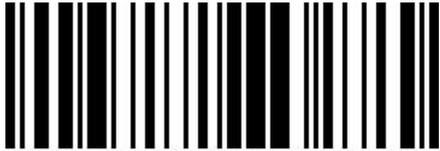
98	b	%%62
99	c	%%63
100	d	%%64
101	e	%%65
102	f	%%66
103	g	%%67

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104	h	%%68
105	i	%%69
106	j	%%6A
107	k	%%6B
108	l	%%6C
109	m	%%6D

SAT
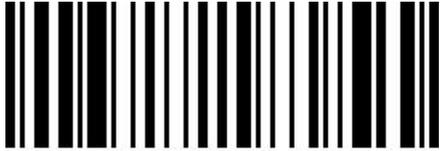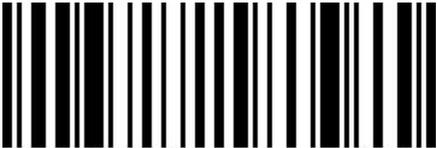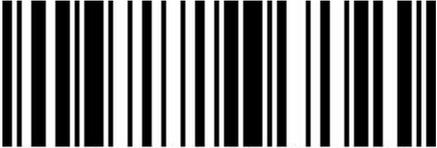
110	n	%%6E
111	o	%%6F
112	p	%%70
113	q	%%71
114	r	%%72
115	s	%%73

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116	t	%%74
117	u	%%75
118	v	%%76
119	w	%%77
120	x	%%78
121	y	%%79

SAT
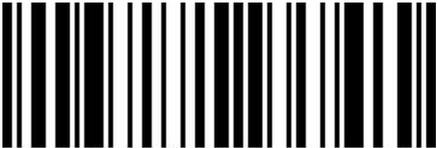
122	z	%%7A
123	{	%%7B
124	|	%%7C
125	}	%%7D
126	~	%%7E
127	DEL	%%7F

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199	Ç	%%C7
231	ç	%%E7

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