



**BARCODE SCANNER
SAT LD101R+**

User Manual



WWW.SATPCS.COM

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1. System Settings



View version number

1.1. Restore Default Settings



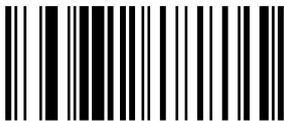
Restore default settings

1.2. Reading Mode Selection



*** Manual reading mode**

The default mode is manual reading mode, in which the scanner starts reading after pressing the trigger button, and stops reading after reading the code successfully or releasing the trigger button.



Always lighting reading mode

After the setting is completed, the laser is in always lighting, and the barcode is automatically read by the scanner when the barcode passes. The same barcode cannot be read repeatedly unless it is removed and reread.



Flashing reading mode

After the setting is completed, the scan is required to be manually triggered, the laser is blinking, and the scanner starts to detect changes in the environment before the window. After the reading is completed, the red light is always on for 3 seconds. After 3 seconds, the bar code is not read automatically and enters the flashing state.



Key delay single reading mode

After the setting is completed, press the trigger button, the laser will light for 3 seconds, if unread code light will be off after 3 seconds, or the light will be off after the reading is completed. The button will not work until the light is off. The default time of the button is 3 seconds. 1-15 seconds can be set.



Open inductive reading mode

Once setup is complete, the scanner does not need to be triggered, and the scanner begins to detect changes in the environment before the window. After the reading is completed, it stops and is in the monitoring state to wait for the next environmental change. Reading the code can also be initiated by clicking the trigger button in this mode.



* Close inductive reading mode

Note: When using this mode, it needs to be switched by the manual reading mode.

1.3. Sound Settings



* Enable sound



Close sound



Sound increase



Sound reduction

1.4. Data Transmission Speed

The user can set the transmission speed of the USB device.



Fast transfer speed



* Moderate transmission speed



Slow transfer speed



Slowest transfer speed

1.5. Image Recognition Mode



* Forward image recognition



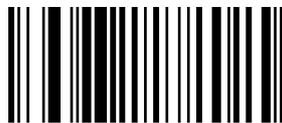
Reverse image recognition

2. Communication Settings

2.1. Interface Settings



* USB-KB



USB-COM



TTL/RS232

2.2. Country/Language Keyboard Options



* USA/China (American English)



Brazil (Portuguese)



Netherlands (Dutch)



Spain (Spanish - international)



Argentina (Latin American)



Canada (French)



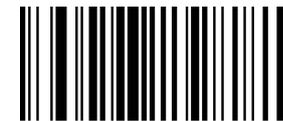
Denmark (Danish)



United Kingdom (British English)



Italy (Italian)



France (French)



Germany (German)



Norway (northern sami)



Sweden/Finland (Swedish/Finnish)



Slovakia (slovak)



Portugal (Portuguese)



Czech republic (Czech)



Belgium (Dutch)



Turkish -F



Turkish -Q



Poland (polish 214)



Switzerland (German/French)



Croatia (Croatian)



Hungary (Hungarian)



Japan (Japanese)

2.3. Serial Port Settings



2400bps



4800bps



*** 9600bps**



19200bps



57600bps



115200bps



*** 8-bit data bit**



7-bit data bit



*** 1 stop bit**



2 stop bits



Odd check



Even check



* None parity check

3. Data Editing

Data editing format: <Prefix><Barcode Data><Suffix>< End Character >

3.1. Prefix Settings



Set prefix

Prefix characters can be added up to 32 characters.

1. Read "Set prefix "
2. Read the corresponding barcode in "Appendix - Character Table"
3. Read "Exit to add prefix and suffix"



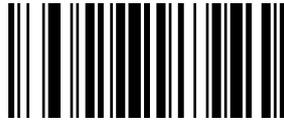
Exit to add prefix and suffix

Scan "Clear all prefixes" bar code to clear all set prefix characters.



Clear all prefixes

3.2. Suffix Settings



Set suffix

Suffix characters can be added up to 32 characters.

1. Read "Set suffix "
2. Read the corresponding barcode in "Appendix - Character Table"
3. Read "Exit to add prefix and suffix"



Exit to add prefix and suffix

Scan "Clear all suffixes" barcode to clear all set suffix characters.

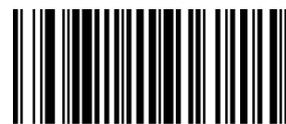


Clear all suffix

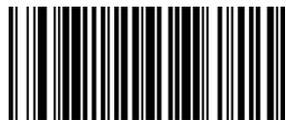
3.3. End character setting



* Add enter CR



Add a line break LF



Add enter and a line break



Add Tab

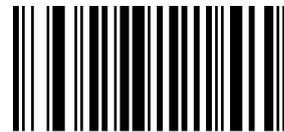


None end character

3.4. Barcode ID Settings



Barcode ID in front



Barcode ID at the back



* Close Barcode ID

3.5. Character Conversion

By setting the character conversion function of the scanner, you can convert the English letters of the barcode output data to upper and lower case.

For example, if the barcode content is aBC123, set the scanner as "all lowercase", and the host will get the data as "abc123". The default is Normal output



* Case unconverted



All caps



All lowercase



Case opposite

Note: this parameter is only valid in standard keyboard input mode and keyboard simulation input control character mode.

4. Barcode Parameter Settings

4.1. UPC-A



* Enable UPC-A



* Transfer check bit



* Transfer system character



* Bar code information does not extend



Disable UPC-A



Not Transfer check bit



Not Transfer system character



The barcode information is extended and the type is converted to EAN-13

4.2. UPC-E



* Enable UPC-E



* Transfer check bit



* Transfer system character



* Bar code information does not extend



Disable UPC-E



Not Transfer check bit



Not Transfer system character



The barcode information is extended and the type is converted to UPC-A

4.3. EAN-8



*** Enable EAN-8**



*** Transfer check bit**



*** Transfer system character**



Disable EAN-8



Not Transfer check bit



Not Transfer system character

4.4. EAN-13



*** Enable EAN-13**



*** Transfer check bit**



The barcode information is extended to ISBN



The barcode information is extended to ISSN



Disable EAN-13



Not Transfer check bit



*** The barcode information isn't extended to ISBN**



*** The barcode information isn't extended to ISSN**

4.5. Code 128



*** Enable Code 128**



Disable Code 128

4.6. Code 39



*** Enable Code 39**



Disable Code 39



Transfer start and end characters



*** Not Transfer start and end characters**



*** Recognize all ASCII characters**



Not Recognize all ASCII characters

4.7. Code 93



*** Enable Code 93**



Disable Code 93



Transfer check



*** Not Transfer check**

4.8. Code 11



*** Enable Code 11**



Disable Code 11

4.9. Interleaved 2 of 5



*** Enable Interleaved 2 of 5**



Disable Interleaved 2 of 5

4.10. Matrix 2 of 5



*** Enable Matrix 2 of 5**



Disable Matrix 2 of 5

4.11. Industrial 2 of 5



*** Enable Industrial 2 of 5**



Disable Industrial 2 of 5

4.12. Standard 2 of 5(IATA)



*** Enable Standard 2 of 5**



Disable Standard 2 of 5

4.13. Codabar (NW-7)



*** Enable Codabar**



Disable Codabar



Transfer start and end characters



*** Not Transfer start and end characters**

4.14. MSI Plessey



Enable MSI Plessey



*** Disable MSI Plessey**

4.15. GS1 DataBar Limited (RSS Limited)



Enable RSS Limited



* Disable RSS Limited

4.16. GS1 DataBar Omnidirectional (RSS Omnidirectional)



Enable RSS Omnidirectional



* Disable RSS Omnidirectional

4.17. China Post (Datalogic 2 of 5)



Enable China Post



* Disable China Post

4.18. UPC/EAN/JAN code extra bit setting



Enable 2 extra bits



Enable 5 extra bits



Enable 2 extra bits and 5 extra bits



* Close Extra bits

5. Appendix

5.1. Appendix - Default Settings Table

Description	Default	Notes
General setting		
Setting code function	ON	The default open
Send setting code	OFF	The default close
Reading mode	Manual reading	
Decoding sound	Open	
Sound frequency	Medium frequency - loud	
Sound frequency	2.0KHZ	
USB fast pass	Close	
USB transmission speed	Moderate speed	
Image recognition mode	Forward image recognition	
Communication Settings		
Interface mode	USB-KBW	
The keyboard mode	American English	
Baud rate	9600	
A serial port check	None check	
Data bits	8	
Stop bits	1	
Data edit		
Transfer Code ID	OFF	
Transfer prefixes	OFF	
Transfer suffixes	OFF	
Transfer end character suffix	ON	Enable enter
Character conversion	OFF	Normal
Bar code parameter setting		
UPC-A		
Enable	ON	
Transfer check bit	ON	

Read 2-bit additional bits	OFF	
Read 5-bit additional bits	OFF	
Additional bits are required, allowing 2 bits	OFF	
Additional bits are required, allowing 5 bits	OFF	
Transmission system character	ON	
Extend to EAN-13	OFF	
UPC-E		
Enable	ON	
Transfer check bit	ON	
Read 2-bit additional bits	OFF	
Read 5-bit additional bits	OFF	
Additional bits are required, allowing 2 bits	OFF	
Additional bits are required, allowing 5 bits	OFF	
Transmission system character	ON	
Extend to UPC-A	OFF	
When extended, the type is converted to UPC-A	OFF	
EAN-8		
Enable	ON	
Transfer check bit	ON	
Read 2-bit additional bits	OFF	
Read 5-bit additional bits	OFF	
Additional bits are required, allowing 2 bits	OFF	
Additional bits are required, allowing 5 bits	OFF	
Transmission system character	ON	
EAN-13		

Enable	ON	
Transfer check bit	ON	
Read 2-bit additional bits	OFF	
Read 5-bit additional bits	OFF	
Additional bits are required, allowing 2 bits	OFF	
Additional bits are required, allowing 5 bits	OFF	
Extend to ISBN	OFF	
Code 128		
Enable	ON	
Transfer check bit	OFF	
Code 39		
Enable	ON	
Transmit start and end characters	OFF	
Full ASCII recognize	ON	
Code 93		
Enable	ON	
Transfer check bit	OFF	
Code 11		
Enable	ON	
Check	ON	
Transmit check bit	C check	
Interleaved 2 of 5		
Enable	ON	
Matrix 2 of 5		
Enable	ON	
Industrial 2 of 5		
Enable	ON	
Standard 2 of 5		
Enable	ON	

Codabar		
Enable	ON	
Transmit start and end characters	OFF	
Plessey		
Enable	OFF	
MSI Plessey		
Enable	OFF	
RSS Limited		
Enable	OFF	
RSS Omnidirectional		
Enable	OFF	
China Post		
Enable	OFF	
Additional bit setting		
Enable additional bit	OFF	
Force the inclusion of additional bits	OFF	

5.2. Appendix -Barcode ID

Number	Barcode type	Code ID code	Bar code type code (prefix and suffix)
1	All barcode	@	00
2	CODE 128	a	01
3	EAN 8	c	03
4	EAN 13	d	04
5	UPC-A	e	05
6	UPC-E	zz f	06
7	CODE 93	i	09
8	GS1 Omnidirectional	j	0A
9	GS1 Limited	k	0B
10	CODE 39	m	0D
11	Interleaved 2 of 5	n	0E
12	Industrial 2 of 5	o	0F
13	Standard 2 of 5	p	10
14	Matrix 2 of 5	q	11
15	China Post	r	12
16	MSI	s	13
17	Plessey	t	14
18	Code 11	u	15
19	Codabar	v	16

5.3. Appendix - Character Table (for adding prefixes and suffixes)



1001
SOH (01)



1002
STX (02)



1003
ETX (03)



1004
EOT (04)



1005
ENQ (05)



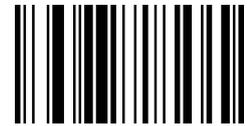
1006
ACK (06)



1007
BEL (07)



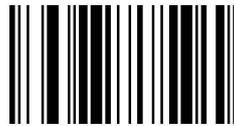
1008
Backspace (08)



1009
HT (09)



1010
LF (0A)



1011
VT (0B)



1012
FF (0C)



1013
CR (0D)



1014
SO (0E)



1015
SI (0F)



1016
DEL (10)



1017
DC1 (11)



1018
DC2 (12)



1019
DC3 (13)



1020
DC4 (14)



1021
NAK (15)



1022
SYN (16)



1025
EM (19)



1028
FS (1C)



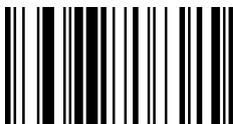
1031
US (1F)



1034
" (22)



1037
% (25)



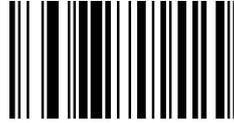
1040
((28)



1043
+ (2B)



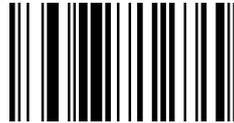
1023
ETB (17)



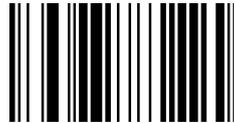
1026
SUB (1A)



1029
GS (1D)



1032
Space (20)



1035
(23)



1038
& (26)



1041
) (29)



1044
, (2C)



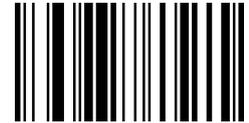
1024
CAN (18)



1027
ESC (1B)



1030
RS (1E)



1033
! (21)



1036
\$ (24)



1039
' (27)



1042
* (2A)



1045
- (2D)



1046
.(2E)



1049
1 (31)



1052
4 (34)



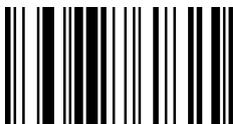
1055
7 (37)



1058
:(3A)



1061
=(3D)



1064
@(40)



1067
C (43)



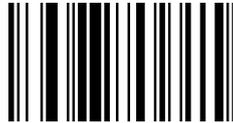
1047
/ (2F)



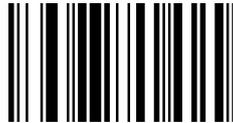
1050
2 (32)



1053
5 (35)



1056
8 (38)



1059
;(3B)



1062
> (3E)



1065
A (41)



1068
D (44)



1048
0 (30)



1051
3 (33)



1054
6 (36)



1057
9 (39)



1060
< (3C)



1063
? (3F)



1066
B (42)



1069
E (45)



1070
F (46)



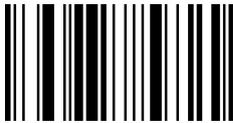
1073
I (49)



1076
L (4C)



1079
O (4F)



1082
R (52)



1085
U (55)



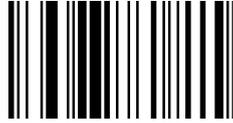
1088
X (58)



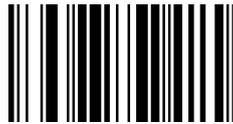
1091
[(5B)



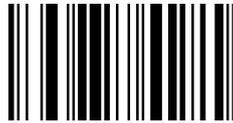
1071
G (47)



1074
J (4A)



1077
M (4D)



1080
P (50)



1083
S (53)



1086
V (56)



1089
Y (59)



1092
\ (5C)



1072
H (48)



1075
K (4B)



1078
N (4E)



1081
Q (51)



1084
T (54)



1087
W (57)



1090
Z (5A)



1093
] (5D)



1094

^ (5E)



1095

_ (5F)



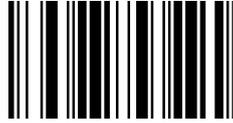
1096

` (60)



1097

a (61)



1098

b (62)



1099

c (63)



1100

d (64)



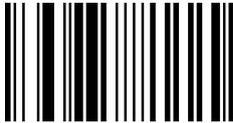
1101

e (65)



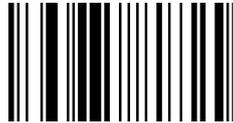
1102

f (66)



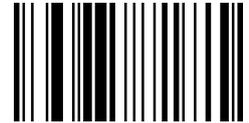
1103

g (67)



1104

h (68)



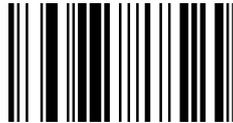
1105

i (69)



1106

j (6A)



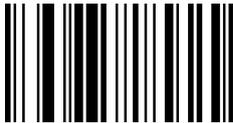
1107

k (6B)



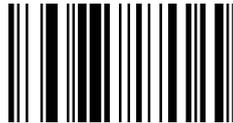
1108

l (6C)



1109

m (6D)



1110

n (6E)



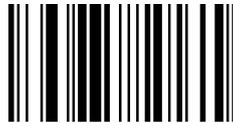
1111

o (6F)



1112

p (70)



1113

q (71)



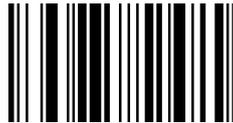
1114

r (72)



1115

s (73)



1116

t (74)



1117

u (75)



1118
v (76)



1119
w (77)



1120
x (78)



1121
y (79)



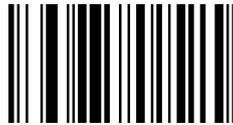
1122
z (7A)



1123
{ (7B)



1124
| (7C)



1125
} (7D)



1126
~ (7E)



1127
Delete (7F)