

ScanHome

Barcode scanner detailed setup manual

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版本信息

Revision History

版本	日期	描述
V00	2015-06-12	第一版本
V01	2015-10-25	删除无效的内容
V02	2016-12-26	增加一些扫描配置功能

Software Development Manual

一、 Factory Default Configuration

Communication Mode: USB

Trigger Mode: Manual mode

Terminator: CR。



Factory Default Configuration

Setup Code



*open Parameter code



close Parameter code

Product information



二、 Communication Mode

1. Serial Port

Using Serial Port, read module and the host devices must match exactly in communication parameter configuration, to ensure smooth

communication and content are correct, Serial Port is configured to:
9600 baud, 8 bits of data, no parity, 1 stop bit



(1) Baud Rate

The default baud rate is 9,600





(2) parity



(3) Stop bit



*1 Stop Bit



2 Stop Bits

2. USB KBW



USB KBW

3. USB COM



USB COM

三、Trigger Mode

1. Manual mode

Press the button to trigger the reading, release the button to end the reading. Reading success or reading time over a single reading time will end the reading.



*Manual mode

2. Continuous Mode

The reading engine performs continuous work. Reading success or reading time over a single reading time will end the reading. More than the specified time will automatically trigger the next reading



Continuous Mode

(1) Interval Time

The interval time between two readings in continuous mode. Regardless of the last success or failure to read, more than the specified time will automatically trigger the next reading.

Default: 500ms,unit: 100ms,range: 0-9900ms

To set a Interval Time, scan the bar code below. Next scan two [Numeric Bar Codes](#) in appendix that correspond to the desired time-out. Single digit values must have a leading zero. For example, to set a time-out of 0.5 seconds, scan the bar code below, then scan the “0” and “5” bar codes. To change the selection or cancel an incorrect entry, scan [Cancel](#) in appendix.



Interval Time

(Default: 500ms.)

3. Automatic Induction Mode

In automatic induction mode, the scan engine detects the brightness of the surroundings. Trigger reading when the brightness changes.

Reading success or reading time over a single reading time will end the reading. Regardless of the last success or failure to read, re-enter the detection of the surrounding environment brightness.



Automatic Induction Mode

(1) Stability of Induction Time

Stability of induction time, Default: 500ms, unit:100ms, range: 0-9900ms

For example:

Set stability of induction time is 200ms

Scan stability of induction time setting code, then scan [Numeric Bar Codes](#) 0 and 2

Set stability of induction time is 1500ms

Scan stability of induction time setting code, then scan [Numeric Bar Codes](#) 1 and 5



Stability of Induction Time

(2) Sensitivity Level

There are three levels of sensitivity to choose from , Default: 500ms



*High





Low

4. Duration in Scanning

This parameter sets the maximum time decode processing continues during a scan attempt. It is programmable in 0.1 second increments from 0.50 to 25.5 seconds.

To set a duration in scanning, scan the bar code below. Next scan three [Numeric Bar Codes](#) in appendix that correspond to the desired on time. Single digit numbers must have a leading zero. For example, to set an on time of 0.5 seconds, scan the bar code below, then scan the "0", "0" and "5" bar codes; to set an on time of 10.5 seconds, scan the bar code below, then scan the "1", "0" and "5" bar codes. To change the selection or cancel an incorrect entry, scan [Cancel](#) in appendix.



Duration in Scanning(Default: 3.0 sec.)

5. Output Interval of The Same Code

To avoid reading the same barcode multiple times in continuous mode and automatic induction mode, set the scan engine to allow reading the same barcode after a delay.

Output interval of the same code is to refuse to read the same barcode within the set length of time.

Default: 500ms,unit:100ms,range: 0-9900ms

To set output interval of the same code, scan the bar code below. Next scan two Numeric Bar Codes in appendix that correspond to the desired time-out. Single digit values must have a leading zero. For example, to set a time-out of 0.5 seconds, scan the bar code below,

then scan the “0” and “5” bar codes. To change the selection or cancel an incorrect entry, scan Cancel in appendix.



Output Interval of The Same Code

四、Floodlight and Positioning lights

1. Floodlight



* Lighting when Read



Always Lighting



Always Close

2. Positioning lights



* Lighting when Read



Always Lighting



Always Close

五、Output、prompt

1. Language Keyboard



* American Keyboard



Belgium



Finland





Germany



Italy



Sweden



England



Denmark



Norway



2. Prompt sound

(1) Mute



Open



* Close

(2) Beeper Volume



* High



Middle



Low

(3) Beep After Good Decode



***Open**



Close

(4) Boot prompt



***open**



Close

(5) Setup Code Prompt



***open**



Close

3. Transmit “No Read” Message

Enable this option to transmit “NR” if a symbol does not decode during the timeout period or before the trigger is released. Any enabled prefix or suffixes are appended around this message.

When disabled, and a symbol cannot be decoded, no message is sent to the host.



***Disable No Read**



Enable No Read

4. Letter case conversion

For example If the Barcode content is: ab123dE, if set to " all uppercase ", the output is: AB123DE; if set to "all lowercase", the output is: ab123de;

if set to " Case Inversion", the output is: AB123De;

Default: **Normal Letter Case**



*** Normal Letter Case**



all uppercase



all lowercase



Case Inversion

5. Data encoding format

1:GBK(GB2312),

2:UNICODE,



*GBK



Unicode

6. Invoice Function



* Disable



Enable

六、Data editor

1. Code ID

The user can identify different barcode types by CODE ID, and CODE ID USES a character to identify them



*Disable send Code ID



Enable send Code ID

2. Terminator

Add character format: Decode Data+Terminator.



*None



CR LF



CR



TAB

七、Code Enable/Disable

1. UPC-A



* Enable



Disable

2. UPC-E



* Enable



Disable

3. EAN-8



* Enable



Disable

4. EAN-13



* Enable



Disable

5. Bookland EAN



Enable



* Disable

6. UPC/EAN Supplementals



*Ignore UPC/EAN with Supplementals



Autodiscriminate UPC/EAN Supplementals



Decode UPC/EAN with Supplementals

7. CODE 128



* Enable



Disable

8. GS1-128



* Enable



Disable

9. ISBT-128



* Enable



Disable

10. Interleaved 2 of 5



* Enable



Disable

Set Lengths for Interleaved 2 of 5

For example, to decode **Interleaved 2 of 5** symbols containing between 4 and 12 characters

first scan **Interleaved 2 of 5-Length Within Range**, then scan **0, 4, 1** and **2** (single digit numbers must be preceded by a leading zero). [Numeric Bar Codes](#) is in appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in appendix.



I 2 of 5 - Length Within Range



I 2 of 5 - Any Length

11. Matrix 2 of 5



Enable



* Disable

Set Lengths for Matrix 25

For example, to decode Matrix 25 symbols containing between 4 and 12 characters

first scan **Matrix 25 Length Within Range**, then scan **0, 4, 1** and **2** (single digit numbers must be preceded by a leading zero). [Numeric Bar Codes](#) is in appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in appendix.



Matrix 25 - Length Within Range



Matrix 25 - Any Length

12. Industrial 2 of 5



Enable



* Disable

Set Lengths for Industrial 2 of 5

For example, to decode **Industrial 2 of 5** containing between 4 and 12 characters

first scan **Industrial 2 of 5 Length Within Range**, then scan **0, 4, 1** and **2** (single digit numbers must be preceded by a leading zero). [Numeric Bar Codes](#) is in appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in appendix.



D 2 of 5 - Length Within Range



D 2 of 5 - Any Length

13. Standard 2 of 5



Enable



* Disable

Set Lengths for Standard 2 of 5

For example, to decode **Standard 2 of 5** containing between 4 and 12 characters

first scan **Standard 2 of 5 Length Within Range**, then scan **0, 4, 1** and **2** (single digit numbers must be preceded by a leading zero). [Numeric Bar Codes](#) is in appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in appendix.



Standard 25 - Length Within Range



Standard 25 - Any Length

14. Code 39



* Enable



15. Code 39 Full ASCII



16. Code 93



17. Code 11





* Disable

18. Codabar



Enable



* Disable

19. MSI



Enable



* Disable

20. GS1-Databar



Enable



* Disabl

21. QR Code



* Enable



Disable

22. Data Matrix



* Enable



Disable

23. PDF 417



* Enable



24. Aztec code



25. Maxi code



26. Hanxin





Appendix 1: numbered bar code

For parameters requiring specific numeric values, scan the appropriately numbered bar code(s).





4



5



6



7



8



9

Appendix 2: CANCEL

To change the selection or cancel an incorrect entry, scan the bar code below.



Cancel

Appendix 3: Code ID

Code character	Code type
A	UPC-A, UPC-E, EAN-8, EAN-13
B	Code 39, Code 32
C	Codabar
D	Code 128, ISBT 128
E	Code 93
F	Interleaved 2 of 5
G	Discrete 2 of 5
H	CODE11
J	MSI, MSI/Plessey
K	GS1-DataBar, /UCC/EAN-128
L	Bookland EAN, Bookland EAN/ISBN
M	Trioptic Code 39
N	Coupon Code
R	GS1 DataBar-14, GS1 DataBar Limited, GS1 DataBar Expanded, RSS

S	SETUP128
r	PDF417
u	DataMatrix(DM)
q	QR
a	Aztec Code
x	Maxi Code
v	Veri Code
c	HanXin

Appendix 3: Code ID

代码字符	条码类型
A	UPC-A, UPC-E, EAN-8, EAN-13
B	Code 39, Code 32
C	Codabar
D	Code 128, ISBT 128
E	Code 93
F	Interleaved 2 of 5/ITF, ITF14
G	Industrial 2 of 5, Standard 2 of 5
H	CODE11
J	MSI, MSI/Plessey
K	UCC/EAN-128/GS1-128
L	Bookland EAN/ISBN, ISSN
R	GS1 DataBar-14, GS1 DataBar Limited, GS1 DataBar Expanded, RSS
V	Matrix 25
r	PDF417
u	DataMatrix(DM)
q	QR
a	Aztec Code
x	Maxi Code
c	HanXin

Appendix 4: Character comparison table

Scanning value	Hexadecimal value	Keyboard function key operation	Keyboard CTRL key combination operation
1000	00h	Null	CTRL 2
1001	01h	Keypad Enter	CTRL A
1002	02h	Caps lock	CTRL B
1003	03h	Right Arrow	CTRL C
1004	04h	Up Arrow	CTRL D
1005	05h	Null	CTRL E
1006	06h	Null	CTRL F
1007	07h	Enter	CTRL G
1008	08h	Left Arrow	CTRL H
1009	09h	Horizontal Tab	CTRL I
1010	0Ah	Down Arrow	CTRL J
1011	0Bh	Vertical Tab	CTRL K
1012	0Ch	Backspace	CTRL L
1013	0Dh	Enter	CTRL M
1014	0Eh	Insert	CTRL N
1015	0Fh	Esc	CTRL O
1016	10h	F11	CTRL P
1017	11h	Home	CTRL Q
1018	12h	Print Screen	CTRL R
1019	13h	Delete	CTRL S
1020	14h	tab+shift	CTRL T
1021	15h	F12	CTRL U
1022	16h	F1	CTRL V
1023	17h	F2	CTRL W
1024	18h	F3	CTRL X
1025	19h	F4	CTRL Y
1026	1Ah	F5	CTRL Z
1027	1Bh	F6	CTRL [
1028	1Ch	F7	CTRL \

1029	1Dh	F8	CTRL]
1030	1Eh	F9	CTRL 6
1031	1Fh	F10	CTRL -
1032	20h	Space	Space
1033	21h	/A	!
1034	22h	/B	'
1035	23h	/C	#
1036	24h	/D	\$
1037	25h	/E	%
1038	26h	/F	&
1039	27h	/G	'
1040	28h	/H	(
1041	29h	/I)
1042	2Ah	/J	*
1043	2Bh	/K	+
1044	2Ch	/L	,
1045	2Dh	-	-
1046	2Eh	.	.
1047	2Fh	/	/
1048	30h	0	0
1049	31h	1	1
1050	32h	2	2
1051	33h	3	3
1052	34h	4	4
1053	35h	5	5
1054	36h	6	6
1055	37h	7	7
1056	38h	8	8
1057	39h	9	9
1058	3Ah	/Z	:
1059	3Bh	%F	;
1060	3Ch	%G	<
1061	3Dh	%H	=

1062	3Eh	%I	>
1063	3Fh	%J	?
1064	40h	%V	@
1065	41h	A	A
1066	42h	B	B
1067	43h	C	C
1068	44h	D	D
1069	45h	E	E
1070	46h	F	F
1071	47h	G	G
1072	48h	H	H
1073	49h	I	I
1074	4Ah	J	J
1075	4Bh	K	K
1076	4Ch	L	L
1077	4Dh	M	M
1078	4Eh	N	N
1079	4Fh	O	O
1080	50h	P	P
1081	51h	Q	Q
1082	52h	R	R
1083	53h	S	S
1084	54h	T	T
1085	55h	U	U
1086	56h	V	V
1087	57h	W	W
1088	58h	X	X
1089	59h	Y	Y
1090	5Ah	Z	Z
1091	5Bh	%K	[
1092	5Ch	%L	\
1093	5Dh	%M]
1094	5Eh	%N	^

1095	5Fh	%O	_
1096	60h	%W	'
1097	61h	+A	a
1098	62h	+B	b
1099	63h	+C	c
1100	64h	+D	d
1101	65h	+E	e
1102	66h	+F	f
1103	67h	+G	g
1104	68h	+H	h
1105	69h	+I	i
1106	6Ah	+J	j
1107	6Bh	+K	k
1108	6Ch	+L	l
1109	6Dh	+M	m
1110	6Eh	+N	n
1111	6Fh	+O	o
1112	70h	+P	p
1113	71h	+Q	q
1114	72h	+R	r
1115	73h	+S	s
1116	74h	+T	t
1117	75h	+U	u
1118	76h	+V	v
1119	77h	+W	w
1120	78h	+X	x
1121	79h	+Y	y
1122	7Ah	+Z	z
1123	7Bh	%P	{
1124	7Ch	%Q	
1125	7Dh	%R	}
1126	7Eh	%S	~
1127	7Fh		Undefined

