2D Bar code Scanner User Manual

Version No.: V1.0 0911



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1. Getting Start

1.1 About this manual

This user manual includes bar code type settings, function settings (lighting, keyboard type, and factory default, etc.), and interface settings. If you need to use other functions, please Scan the corresponding configuration code accordingly as below.

With (*) means factory default setting.

1.2 Factory Default Settings



Factory Default



Version No.

1.3 Interface Selections

Scan the "USB keyboard" bar code to identify it as a USB keyboard interface.

When the serial port is required, the user needs to install the driver to realize the function of identifying the USB interface as USB COM.





2. Function Mode Settings

2.01 About function mode setting

This chapter can configure the function mode of the device, including working mode (such as image brightness reverse, lighting settings, illumination configuration, LED indicator setting and speaker settings, etc.)

Please Scan the corresponding configuration code accordingly as below.

2.02 Working mode





Auto-detection

2.03 Automatic Scanning Sensitivity

Remarks:

The sensitivity of automatic scanning mode is 15 levels, 1 means the highest, and 15 means the lowest.









2.04 Interval Time Settings

Set the interval time of the same bar code in automatic scanning mode.

The same bar code time can be set to 1-127 (the minimum is 1, the maximum is 127).









200ms





2.05 Bar code types On/Off



All types On





All 1D bar code types On









2.06 QR mirror image A86761

2.07 DATAMATRIX mirror image



Enable



2.08 Mirror image for all types of bar code



A6D870 *Disable

2.09 Black and white reverse



Black & white reverse on



* Black & white reverse off





B66771 *Aiming light enable

2.10 LED settings

*Illumination enable







Led indicator reverse





Led indicator keeps lighting up







2.11 Beeper setting

B667D0 ***O**n

Normal



2.7KHz

7EB9B5 2.0KHz

7EB9B3 3.1KHz



1.6KHz



2.4KHz







2.12 Testing mode

After being configured to test mode, the device will automatically trigger decoding every second.





2.13 Sleep Mode

When making a configuration bar code, add "^ 3" character before the digital command, such as ^ 3ADBE6X (X means sleep time), and the configuration bar code should be code128 type.





2.14 Multiple-level illumination setting







2.15 Timeout settings



60s





2.16 Interface setting 2.16-1 RS232 interface





30s



120s











7BEA67













2.17-1 Stop digit





7C69B1

Μ



0





10

3. Output setting

3.1 About output setting

This chapter can configure the output of the bar code scanner, including carriage return/line feed, adding prefix/suffix, setting bar code length, removing bar code digits (start/end removal), and multiple-national keyboard switching settings.

Please scan the corresponding configuration code accordingly as below.

3.2 Carriage return/Line feed setting



Add carriage return



Remove carriage return





3.3 Remove the barcode from the front/the end

The front and the end bar codes can be removed at the same time. For example, the number of digits of the bar code "B68E6X" is removed from the beginning (X is the number of digits to be removed, and the last 1 represents one bit removed. If it is 2, remove two digits, if it is 0, it is normal.



B68E61 Remove 1 digit of barcode from the front

Remove the number of digits of the barcode "B6BE6X" from the end (X is the number of digits to be removed, the last 1 represents one digit removed if it is 2 remove two digits, if it is 0, it will not be removed normally.



Remove the barcode 1 digit from the end

Note: You can remove the front and the end barcode at the same time

3.4 Keep data from the front/end

You can only choose to keep the front or the end digit, not both. Scan "AC8760" from the digits of the reserved barcode at the front, scan "AC8761" from the digits of the reserved barcode at the barcode with the reserved digits.



Keep the front data



Keep the end data



Keep 9-bit data

"B69E6X" X is the number of bits of reserved data. For example, if 9 bits are reserved, it is B69E69. Up to 255 bits can be reserved.

3.5 Bar code length setting

The length of the bar code could be set from 1 to 255 (minimum length is 1 and the maximum length is 255).

When making a configuration bar code, add "^ 3" character before the digit command, such as ^ 367EE6X (X indicates the length of bar code), the configuration bar code should be code128 type.



Length of 1





3.6 Add-on code setting



Enable optional 2 digits Add-ons



* Disable optional 2 digits Add-ons Default



Enable optional 5 digits Add-ons



6787C0 * Disable optional 5 digits Add-ons Default





678790 * Add-on code must have off (UPC/EAN) Default

3.7 Chinese output setting for USB keyboard mode

USB keyboard mode could output Chinese Characters, scan the corresponding configuration code as below to set the Chinese output. (The default setting of the Chinese version is not open, and can be switched into other languages)





For MS Word, QQ, Not for MS Excel, MS Notebook



For MS Excel, MS Notebook, Not for MS Word, QQ

3.8 Keyboard language setting









Germany



7C8A66 USA



Spain



Singapore



Salvatore



Japan





Turkey





Hungary



Russian (Russia)



Thailand

3.8 ASCII alt code setting

You may need to output the characters in the form of ASCII code, at which time you could configure the corresponding configuration code as instruction.





Alt code mode off





4 digits alt code off

3.10 Case switching



All lower case



All higher case



4. Bar code types setting

4.1 About bar code types

This chapter is about the configuration of bar code types for scanners, including UPC/EAN, Coda bar code, Code39, Full ASCII Code39, Interleaved 2 of 5, Code93, UPC-A, GS1 Data Bar Omnidirectional, GS1 Data Bar Expanded, PDF 117, QR Code, HK 2 of 5 (post) and Airline 2 of 5 and other supporting bar code configurations, please scan the corresponding configuration code accordingly as below.

With (*) means factory default settings.

4.2 Bar code types setting





*Disable

4.2.02. Aztec Code





*Disable



66C771 Black & White reversed Aztec enable



* Black & White reversed Aztec disable

4.2.03. Coda bar



*Enable



Disable



*No Check digit



Open check digit



Open and output the check digit

4.2.04 Initial and ending characters output





* Off

4.2.05. Coda block A



Enable



*Disable

4.2.06. Coda block F





4.2.07. Code 128



Disable

4.2.08. Code 11



Enable





*1 check digit







4.2.09. Code 32





*Disable

4.2.10. Code 39



*Enable



Disable











*Initial and ending digit output off

4.2.11. Code 93



Enable



4.2.12. Composite

Enable



4.2.13. Data Matrix Code





Disable

66B781 Black & white reversed DM code enable

66B780

* Black & white reversed DM code disable

4.2.14. EAN/UPC





Disable

4.2.15. EAN-8





Disable







EAN-8 transform to EAN-13



* EAN-8 transform to EAN-13 disable

4.2.16. EAN-13





6DF781 * EAN-13 check digit output

> 6DF780 EAN-13 check digit output off

4.2.17. Full ASCII Code39





4.2.18. GS1 Data Bar Expanded





*Disable

4.2.19. GS1 Data Bar Limited



Enable



4.2.20. GS1 Data Bar Omnidirectional



Enable



4.2.21. HAN XIN





4.2.22. Hong Kong 2 of 5(China Post)



Enable



*Disable

Notice: When reading a postal, all other postal needs close.

4.2.23. Interleaved 2 of 5



*Enable



Check digit on





Disable



*Check digit off



Enable



*Disable



Matrix 2 of 5 check digit output



* Matrix 2 of 5 check digit output off

4.2.25. Maxi code



Enable



4.2.26. MicroPDF417



Enable



4.2.27. Micro QR Code





*Disable



Black & white reversed micro QR enable



4.2.28. MSI





*Disable

4.2.29. PDF417





Disable

4.2.30. Pharmacology



Enable



4.2.31. QR Code



*Enable



Disable



Black and white reversed QR enable



* Black and white reversed QR Disable



*Web site address on



4.2.32. Straight 2 of 5 Industrial





*Disable

4.2.33. Telepen



Enable



*Disable

4.2.34. Trioptic Code



Enable



4.2.35. UPC-A



6DB7D1 *UPC-A check digit output

*Enable

6687C0

Disable



UPC-A check digit output off



*UPC-A number system digit output





UPC-A transform to EAN-13



*UPC-A transform to EAN-13 off





6DB7C0 *UPC-E check digit output off

6DB7C1

UPC-E check digit output



***UPC-E outputs the first character off**



UPC-E outputs the first character





* UPC-E expand to 12 digits off

5. Special function setting

5.1 About special function setting

This chapter enumerates some configuration examples of equipment used, specifies the configuration method of special functions, which is convenient for users to operate the scanner. The configuration of special functions could be set by scanning the corresponding configuration bar codes in the instruction.

5.2 Interleaved 2 of 5 suffix setting



On



5.3 Invoice information bar code setting

Scan the following configuration bar codes in turn:



For MS Notebook and Excel, not for MS Word



On



5.4 Bar code length locking configuration

Add a length locking configuration process for a single bar code type:

Example 1

Lock the code 128 type length to 10 digits. Look-up the bar code types table, the code 128 number is 083.

- 1. Scan the "enter/exit the program mode" setting code, enter the program mode
- 2. Scan the "setting the bar code length type 1" code
- 3. Scan the byte code "0"," 1"," 0" in turn
- 4. Scan the "setting the bar code types" code
- 5. Scan the byte code "0"," 8"," 3" in turn
- 6. Scan the "enter/exit the program mode" setting code, exit the program mode

Add length locking for 2 different bar code types:

Example 2

- 1. Scan the "enter/exit the program mode" setting code, enter the program mode
- 2. Scan the "setting the bar code length type 1" code for bar code type 1
- 3. Scan the 3 byte-codes in turn
- 4. Scan the "setting the bar code types type 1" code for bar code type 1
- 5. Scan the 3 byte-codes in turn
- 6. Scan the "setting the bar code length type 2" code for bar code type 2
- 7. Scan the 3 byte-codes in turn
- 8. Scan the "setting the bar code types type 2" code for bar code type 2
- 9. Scan the 3 byte-codes in turn
- 10. Scan the "enter/exit the program mode" setting code, exit the program mode



Enter/Exit the program mode





Configuration bar code type 1 byte



Configure bar code type 2 length



Configuration bar code type 2



Configure bar code type 3 length

bytes

bytes



Configure bar code type 4 length

bytes



Configure bar code type 5 length



Configuration bar code type 3



Configuration bar code type 4



Configuration bar code type 5

bytes



Configure bar code type 6 length

bytes

5.5 Byte codes list(decimal)











Configuration bar code type 6











5.6	Bar	code	Types	Table
-----	-----	------	-------	-------

Bar code No.	Bar code type
002	UPC-E
003	EAN-8
004	UPC-A
005	EAN-13
080	CODE 39
081	CODABAR
082	INTERLEAVED 2 OF 5
083	CODE 128
084	CODE 93
091	MSI
092	CODE 11
093	AIRLINE 2 OF 5
094	MATRIX 2 OF 5
095	TELEPEN
096	UK PLESSEY
097	AIRLINE(13 DIGITS)
098	STANDARD 2 OF 5
099	TRIOPTIC
101	RSS14
102	RSS LIMIT
103	RSS EXT
104	PDF417
105	MICRO PDF417
106	DATA MATRIX
107	AZTEC
108	QR
109	MAXICODE

5.7 Add prefix/suffix (maximum 10 characters)

The process to add prefix:

Example 1, add a one-byte prefix and the character is "(", the ASCII code decimal number is 040. Scan the "enter/exit the program mode" setting code, enter the program mode
Scan the "byte 1 prefix setting" bar code
Scan the byte-code "0", " 4", " 0"

- 4. Scan the "enter/exit the program mode" setting code, exit the program mode

The process to add suffix:

Example 2, add a one-byte suffix and the character is ")", the ASCII code decimal number is 041.

- 1. Scan the "enter/exit the program mode" setting code, enter the program mode
- 2. Scan the "byte 1 suffix setting" bar code
- 3. Scan the byte-code "0" ," 4" ," 1"
- 4. Scan the "enter/exit the program mode" setting code, exit the program mode

The process to add multiple prefixes:

Example 3, add multiple prefixes

- 1. Scan the "enter/exit the program mode" setting code, enter the program mode
- 2. Scan the "byte 1 prefix setting" bar code
- 3. Scan the byte-code for the byte 1 prefix
- 4. Scan the "byte 2 prefix setting" bar code
- 5. Scan the byte-code for the byte 2 prefix
- 6. Scan the "enter/exit the program mode" setting code, exit the program mode

The process to add multiple suffixes:

Similar to add multiple prefixes

Delete all the prefix:

Scan the "Delete all prefix" setting code

Delete all the suffix:

Scan the "Delete all suffix" setting code



Enter/Exit the program mode



Configure the 1st byte of the prefix





Configure the 3rd byte of the prefix



Configure the 4th byte of the prefix





Configure the 6th byte of the prefix





Configure the 8th byte of the prefix



Configure the 9th byte of the prefix



Configure the 10th byte of the prefix



Delete all prefix





Configuration suffix 2nd byte





Configuration suffix 4th byte





Configuration suffix 6th byte



Configuration suffix 7th byte



Configuration suffix 8th byte



Configuration suffix 9th byte





5.8 Byte codes list(decimal)











Appendix: ASCII List

Decimal number	Character	Decimal number	Character	Decimal number	Character	Decimal number	Character
000	NUL	032	SP	064	@	096	6
001	SOH	033	!	065	A	097	а
002	STX	034		066	в	098	b
003	ЕТХ	035	#	067	с	099	с
004	EOT	036	\$	068	D	100	d
005	ENQ	037	%	069	E	101	е
006	АСК	038	&	070	F	102	f
007	BEL	039	•	071	G	103	g
008	BS	040	(072	н	104	h
009	НТ	041)	073	I	105	i
010	LF	042	*	074	J	106	j
011	VT	043	+	075	к	107	k
012	FF	044	,	076	L	108	1
013	CR	045	-	077	м	109	m
014	SOH	046		078	N	110	n
015	SI	047	1	079	0	111	0
016	DLE	048	0	080	Р	112	р
017	DC1	049	1	081	Q	113	q
018	DC2	050	2	082	R	114	r
019	DC3	051	3	083	S	115	s
020	DC4	052	4	084	т	116	t
021	NAK	053	5	085	U	117	u
022	SYN	054	6	086	v	118	v
023	ETB	055	7	087	W	119	w
024	CAN	056	8	088	x	120	x
025	EM	057	9	089	Y	121	у
026	SUB	058	:	090	z	122	z
027	ESC	059	;	091	1	123	{
028	FS	060	<	092	١	124	
029	GS	061	=	093]	125	}
030	RS	062	>	094	^	126	~
031	US	063	?	095		127	DEL

ASCII extended (CP-1252)

Decimal number	Character	Decimal number	Character	Decimal number	Character	Decimal number	Character
128	€	160		192	À	224	à
129		161	i	193	Á	225	á
130	,	162	¢	194	Â	226	â
131	f	163	£	195	Ã	227	ã
132	"	164	¤	196	Ä	228	ä
133		165	¥	197	Å	229	å
134	t	166		198	Æ	230	æ

135	ŧ	167	§	199	Ç	231	ç
136	^	168		200	È	232	è
137	‰	169	©	201	É	233	é
138	Š	170	а	202	Ê	234	ê
139	<	171	«	203	Ë	235	ë
140	Œ	172	7	204	ì	236	ì
141		173		205	Í	237	í
142	ž	174	®	206	î	238	î
143		175	-	207	Ï	239	ï
144		176	0	208	Ð	240	ð
145	"	177	±	209	Ñ	241	ñ
146	,	178	2	210	Ò	242	ò
147	"	179	3	211	Ó	243	Ó
148	"	180		212	Ô	244	ô
149	•	181	μ	213	Õ	245	õ
150	_	182	¶	214	Ö	246	ö
151	—	183	•	215	×	247	÷
152	~	184	2	216	ø	248	ø
153	тм	185	1	217	Ù	249	ù
154	Š	186	0	218	Ú	250	ú
155	>	187	»	219	Û	251	û
156	œ	188	1/4	220	Ü	252	ü
157		189	1/2	221	Ý	253	ý
158	ž	190	3/4	222	Þ	254	þ
159	Ÿ	191	ć	223	ß	255	ÿ