

2D Mobile Scanner

User's Manual

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turn -off



turn-on

Chapter 1 Setting code turn-on/off

If to make use of setting code, the reading device must startup the function of setting code at first, that is, to read the startup code “turn on” first on the top. Read the close code “turn off ” after the setting; that is to turn off the function of setting.

Attention: when the function of setting code is under the state of startup, the reading device will automatically turn off the function of setting code if it read the non-setting code.

Chapter 2 Overall Setup

2.1 Done and cancel



Done



Abort One Data of Current Setting



Abort One String of Current Setting



Abort Current Setting

2.2 Hex Numbers



0



1



2



3



4



5



turn -off



turn-on



6



7



8



9



A



B



C



D



E



F

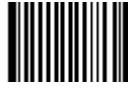


turn -off



turn-on

2.3 Overall Setup



Set All Default **



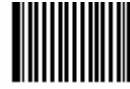
Save Current Setting as User Default



Reset to User Default



Set All Bar Codes Disable



Set All Bar Codes Enable



Set All 1D Bar Codes Disable



Set All 1D Bar Codes Enable



Set All 2D Bar Codes Disable



Set All 2D Bar Codes Enable



turn -off



turn-on

2.4 Double-1D setting



Only read single 1D Bar Code **



Only read double 1D bar code (the same type)



Read Both single and 1D bar code (the same type)

2.5 Setting of some parameters



Startup user batch deal setting



ESN setting of start-up product

2.6 Message of setting code to send setup



Don't Transmit Setting Code



Transmit Setting Code



turn -off



turn-on

2.7 Message of system to send setup



Send message related to system



Don't display when power on **



Display when power on

Chapter 3 Communication

3.1 Baud Rate

Range from 1200bit/s to 115200bit/s. Host machine should setup to same speed.◦



1200



2400



4800



9600 **



14400



19200



38400



57600



115200



turn -off



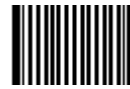
turn-on

Chapter 4 Light param

4.1 Illumination



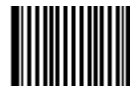
Flashing **



Always On



Keep On When Reading



Always Off

4.2 Aiming



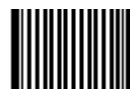
Flashing**



Always On



Sense mode



Always Off



turn -off



turn-on

Chapter 5 Data Format

5.1 Setup all prefix and suffix enable

Disable: set not to add prefix and suffix to all decoding message.

Enable: set to add prefix and suffix to all decoding message.

Order of data format:

CodeID prefix + AIM suffix + user-defined prefix + data message + user-defined suffix + suffix of terminal character

[User define Code ID] [AIM define Code ID] [Prefix] data string [suffix] [terminator]



Disable Prefix **



Enable Prefix

5.2 Setup prefix order

Default prefix order: CodeID prefix + AIM prefix + user defined prefix



CodeID+AIM+ SelfDefine



CodeID+ SelfDefine+AIM



AIM+CodeID+ SelfDefine



AIM+ SelfDefine+CodeID



SelfDefine+CodeID+ AIM



SelfDefine+AIM+ CodeID



turn -off



turn-on

5.3 User Define Prefix



Disable Prefix

**



Enable Prefix



Define Prefix

5.4 User Define Suffix



Disable Suffix

**



Enable Suffix



Define Suffix



turn -off



turn-on

5.5 AIM



Disable **



Only Enable One Character



Only Enable Two Characters



Enable All

5.6 CodeID



Disable **



Enable



All the barcode use the default CodeID

5.7 Define 1D Code ID

Refer to Appendix B for ASCII table, find the ID you wanted then go to Appendix A for Hex table. Attention: every barcode's CodeID could just set a character, and it must be letter. For example: to set J as code ID for Code 128. Scan "Code 128" first, find "J" at ASCII table position 6A, then go to Hex table to scan "6", "A" and "Done"

There is only one byte for each Code ID.



Code128



UCC/EAN-128



turn -off



turn-on



EAN-8



EAN-13



UPC-E



UPC-A



Interleaved 2 OF 5



ITF-14



ITF-6



China Post25



Code39



Codabar



Code93



turn -off



turn-on

5.8 Define 2D Code ID



PDF417



QR Code



DataMatrix



VeriCode (non-standard)

5.9 Terminator



Disable **



Enable



User Define

Note: default value for RS232 is CR/LF, for KBW is CR



turn -off



turn-on

Chapter 6 Reading Mode

6.1 Scan mode



Single Scan **



Auto Scan



Continue Scan



Once Continue Scan

6.2 CMOS Sensibility

Sensibility: the sense to the environment when the scan mode under “auto scan”。



Low



Normal



High **



Higher



Set value of sensitivity (maximum 50)



turn -off



turn-on

6.3 Time-out

Under Auto Scan condition, LED will on when CMOS sense bar code, which will last for 2000ms if no good read. For same bar code, system will delay 1500ms to avoid duplicate reading.

For example: to change Time-Out to 2350ms,

Step 1: scan "Time-Out Of Each Reading"

Step 2. scan "2", "3", "5", "0" and "Done".



Time-Out of Each Reading



No Duplicate Reading **

Completely delay: Don't read the same code within a certain period.

Incompletely delay: It is not of absoluteness for the time to read a same barcode, that is, still able to read the same barcode even when the environment around is changed. For example: to put a barcode within a reading area, remove it away after reading and return to the area again, it is still able to read just the same even though it does not yet reach the same enactment time to read the code.



Incompletely delay **



Completely delay



turn -off



turn-on

Chapter 7 Setup for 1D Symbologies

All available 1D codes are: Code128, UCC/EAN-128, EAN-8, EAN-13, UPC-E, UPC-A, Interleaved 2 OF 5, ITF-14, ITF-6, China Post 25, Code 39, Codabar, Code93.

Message Length

In order to reduce the chances of a misread, the best way is to predefine data length in advance. Please scan below bar code setup to define both minimum length and maximum length according to your requirements. And pay attention to the following notes:

1. Both minimum and maximum lengths must not be zero.
2. Minimum length should be smaller than maximum length.
3. If both minimum length and maximum lengths are the same, read one length only.
4. The maximum length for any 1D bar code should be not more than 127.
5. Must scan "Done" to save the length definition.

e.g. Decode only those bar codes with 8 to 12 characters.

Minimum Length = 8 Maximum Length = 12

Step 1: fine the bar code type

Step 2: scan "Minimum Length"

Step 3: scan "8", see Hex Numbers

Step 4: scan "Done"

Step 5: san "Maximum Length"

Step 6: scan "1", "2" and "Done"



turn -off



turn-on

7.1 Code128



Set All Default **



Disable



Enable **



Minimum Length (1)



Maximum Length (48)



turn -off



turn-on

7.2 UCC/EAN-8



Set All Default **



Disable



Enable **



Don't Transmit Check Digit



Transmit Check Digit **



Don't Extend To EAN-13 **



Extend To EAN-13



turn -off



turn-on

7.3 EAN-13



Set All Default **



Disable



Enable **



Don't Transmit Check Digit



Transmit Check Digit **



turn -off



turn-on

7.4 UPC-E



Set All Default **



Disable



Enable **



Don't Transmit Check Digit



Transmit Check Digit **



Don't Transmit system '0' **



Transmit system '0'



Don't Extend To UPC-A **



Extend To UPC-A



turn -off



turn-on

7.5 UPC-A



Set All Default **



Disable



Enable **



Don't Transmit Check Digit



Transmit Check Digit **



Don't Transmit system '0' **



Transmit system '0'



turn -off



turn-on

7.6 Interleaved 2 OF 5



Set All Default **



Disable



Enable **



Minimum Length (4)



Maximum Length (80)



Don't Check Digit **



Validate Check Digit, But Don't Transmit



Validate Check Digit, and Transmit



turn -off



turn-on

Define Fixed Length



Disable Fixed Length **



Enable Fixed Length



Define Fixed Length (range)



Cancel Define Fixed Length (range)



turn -off



turn-on

7.7 ITF



Set All Default **



Decode ITF-14, but don't transmit check digit



Decode ITF-14 and transmit check digit



Don't decode ITF-6 **



Decode ITF-6, but don't transmit check digit



Decode ITF-6 and transmit check digit



turn -off



turn-on

7.8 China Post25



Set All Default **



Disable **



Enable



Minimum Length (4)



Maximum Length (80)



turn -off



turn-on

7.9 Code 39



Set All Default **



Disable



Enable **



Minimum Length (1)



Maximum Length (48)



turn -off



turn-on



Don't Transmit Start/Stop Characters



Transmit Start/Stop Characters **



Don't Check Character **



Check Character, But Don't Transmit



Check Character, and Transmit



Disable Full ASCII 39 **



Enable Full ASCII 39



turn -off



turn-on

7.10 Codabar



Set All Default **



Disable



Enable **



Minimum Length (2)



Maximum Length (60)



Don't Transmit Start/Stop Characters



Transmit Start/Stop Characters **

Note: Start & Stop Characters are: A、 B、 C and D



turn -off



turn-on

7.11 Code93



Set All Default **



Disable



Enable **



Minimum Length (1)



Maximum Length (48)



turn -off



turn-on

Chapter 8 Setup for 2D Symbologies

All available 2D bar codes are: PDF417、QR Code 、DataMatrix and VeriCode.

Message Length

In order to reduce the chances of a misread, the best way is to predefine data length in advance. Please scan below bar code setup to define both minimum length and maximum length according to your requirements. And pay attention to the following notes:

1. Both minimum and maximum lengths must not be zero.
 2. Minimum length should be smaller than maximum length.
 3. If both minimum length and maximum lengths are the same, read one length only.
 4. The maximum length for any 2D bar code should be not more than 65535.
 5. Must scan “Done” to save the length definition.
-



turn -off



turn-on

8.1 Macro

Mode1: Transmit right after scan

Mode2: Transmit according to code sequence, small number will transmit first, system will automatically accumulate information to want previous number. The memory buffer is 64kbyte

Mode3: Read all bar codes in memory buffer, then send out at once. The maximum buffer is 64kbyte



Mode1



Mode2



Mode3 **



Delete the Data of Macro Buffer



turn -off



turn-on

8.2 PDF417



Set All Default **



Disable



Enable **



Minimum Length (1)



Maximum Length (2710)



turn -off



turn-on

8.3 QR Code



Set All Default **



Disable



Enable **



Minimum Length (1)



Maximum Length (3500)



turn -off



turn-on

8.4 DataMatrix



Set All Default **



Disable



Enable **



Minimum Length (1)



Maximum Length (1500)



turn -off



turn-on

8.5 VeriCode



Set All Default **



Disable



Enable **



Minimum Length (1)



Maximum Length (65535)



turn -off



turn-on

Chapter 9 Setup for OCR

9.1 SPEC_OCR_B



Set All Default **



Disable **



Enable

Chapter 10 Nonstandard parameter setting of 2D

10.1 Nonstandard parameter setting of QR code



setup value



default (0) **



254+(251<<8)



254+(252<<8)



255

Chapter 11 ASCII TABLE

HEX	Character	HEX	Character	HEX	Character	HEX	Character
00	NUL	20	SP	40	@	60	`
01	SOH	21	!	41	A	61	a
02	STX	22	“	42	B	62	b
03	ETX	23	#	43	C	63	c
04	EOT	24	\$	44	D	64	d
05	ENQ	25	%	45	E	65	e
06	ACK	26	&	46	F	66	f
07	BEL	27	'	47	G	67	g
08	BS	28	(	48	H	68	h
09	HT	29	)	49	I	69	I
0A	LF	2A	*	4A	J	6A	j
0B	VT	2B	+	4B	K	6B	k
0C	FF	2C	,	4C	L	6C	l
0D	CR	2D	-	4D	M	6D	m
0E	SO	2E	.	4E	N	6E	n
0F	SI	2F	/	4F	O	6F	o
10	DLE	30	0	50	P	70	p
11	DC1	31	1	51	Q	71	q
12	DC2	32	2	52	R	72	r
13	DC3	33	3	53	S	73	s
14	DC4	34	4	54	T	74	t
15	NAK	35	5	55	U	75	u
16	SYN	36	6	56	V	76	v
17	ETB	37	7	57	W	77	w
18	CAN	38	8	58	X	78	x
19	EM	39	9	59	Y	79	y
1A	SUB	3A	:	5A	Z	7A	z
1B	ESC	3B	;	5B	[	7B	{
1C	FS	3C	<	5C	\	7C	|
1D	GS	3D	=	5D	]	7D	}
1E	RS	3E	>	5E	^	7E	~
1F	US	3F	?	5F	_	7F	DEL

Chapter 12 A contrast list of default for CodeID and AIM

Type of Barcode	Code ID	Hex	AIM ID	Hex
CODE128	j	6A	C	43
UCC/EAN-128	j	6A	C	43
UPC-E	c	63	E	45
UPC-A	c	63	E	45
EAN-8	d	64	E	45
EAN-13	d	64	E	45
INTERLEAVED 2 OF 5	e	65	I	49
ITF-14	e	65	I	49
ITF-6	e	65	I	49
CHINA POST25	e	65	I	49
CODE39	b	62	A	41
CODABAR	a	61	F	46
CODE93	i	69	G	47
PDF417	r	72	L	4C
QR	s	73	Q	51
DATAMATRIX	u	75	d	6D
VeriCode	v	76	V	56

Chapter 13 A contrast list of barcode and serial number

Type of Barcode	NO.	Type of Barcode	NO.
Code128	002	China Post 25	011
UCCEAN128	003	Code39	013
EAN-8	004	Codabar	015
EAN-13	005	Code93	017
UPC-E	006	PDF417	032
UPC-A	007	QR Code	033
Interleaved 2 OF 5	008	DataMatrix	035
ITF-14	009	VeriCode	037
ITF-6	010	SPEC_OCR_B	064
