

2D Desktop Barcode Scanner

Full Manual

V1.2

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Overview

This manual is used for setting of 2D desktop scanner, It's intended for engineers and users who want to learn more about this device.

This document lists the main functions of the scanner, including: barcode reading, barcode type support, data editing, command settings and advanced functions, etc.

Installation Method

This scanner supports USB, USB virtual COM and RS232 interface, it supports plug and play for USB interface, a VCOM driver is needed if using USB virtual COM interface, and the RS232 interface scanner uses the standard RS232 port.

Basic Function



AB000

Restore Factory Default



AB020

Enable All Codes



AB010

Disable All Codes



AB040

Enable All 1D Codes



AB030

Disable All 1D Codes



AB060

Enable All 2D Codes



AB050

Disable All 2D Codes



AD001

Version Info

Data Interface



JA000

RS232



JA020

USB-KBW (Default)



JA060

USB Virtual Com(*driver is needed)

Scan Mode



DC020

Continuous Scan



DC030

Single Continuous Scan(Default)

Keyboard Function

Language Setting



JD200

English (USA) (Default)



JD201

Japanese



JD202

Portuguese (Brazil)



JD203

Czech



JD204

Danish



JD205

Swedish



JD206

French



JD207

Italian



JD208

Norwegian



JD209

Spanish



JD210

Slovak



JD211

Turkish



JD212

English (UK)



JD213

German



JD214

Greek



JD215

Hungarian



JD216

Turkish F



JD217

Finnish



JD217

Russian



JD219

Dutch (Netherlands)

Number Lock Function



JD110

Enable



JD120

Disable(Default)

Character Input Delay

Set the data input speed under USB-KBW interface. If the PC is an old version with lower performance, please choose high input delay to ensure the accuracy of data transfer.



JD050

No Delay



JD053

5ms(Default)



JD054

10ms



JD056

20ms



JD058

40ms

Virtual Keyboard



ZA153

Disable(Default)



JD062

Enable

Non-Visible Characters Output



JD190

Enable(Default)



JD191

Ignore Non-Visible Characters(Except 0D,0A)

Input Encoding Format



ZA330

Auto(Default)



ZA344

KOI8-R



ZA345

BIG5



ZA346

JIS

Output Encoding Format



JD160

Default



JD170

GBK (Notepad/excel)



JD171

UNICODE (Word)



JD172

JIS



JD173

UTF-8



JD174

BIG5

GS Control Character Replacement



ZA132

Do Not Replace (Default)



ZA137

Replace Ç



ZA133

Replace |



ZA134

Replace ^]



ZA135

Replace]



ZA136

Replace <GS>

RS232 Function

Baud Rate



BA000

1200 bps



BA010

2400 bps



BA020

4800 bps



BA030

9600 bps(Default)



BA040

19200 bps



BA050

38400 bps



BA060

57600 bps



BA070

115200 bps

Parity Bit



BB000

No Parity(Default)



BB010

Even Parity



BB020

Odd Parity

Stop Bit



BC000

1 Stop Bit(Default)



BC010

2 Stop Bits

Data Bit



BD020

7 Data Bits



BD030

8 Data Bits(Default)

Control Flow



BE000

Disable Hardware Auto Control Flow(Default)



BE010

Enable Hardware Auto Control Flow

Data Edition

Prefix and Suffix Setting

For example, setting prefix a need to scan:

Enable Customized Prefix --- Set Custom Prefix --- 6 --- 1 --- Save

(The HEX value of a is 61 in ASCII table)



Disable Customized Prefix



Enable Customized Prefix



Set Customized Prefix

(Please refer to the ASCII table for setting)



Disable Customized Suffix



Enable Customized Suffix



Set Customized Suffix

(Please refer to the ASCII table for setting)

Start Character



FX000

None



FX010

STX

Terminal Character



DJ000

None



DK010

0D(Default)



DK020

0D 0A



DK030

TAB



FY040

ETX

CR/LF Setting(USB-KBW)



ZA110

Only 0A(LF) line feed



ZA111

Only 0D(CR) line feed (Default)



ZA112

0A(LF) and 0D(CR) both line feed

Convert Case



JD040

Original data (Default)



JD041

All Convert to Upper Case



JD042

All Convert to Lower Case

AIM ID



DI000

Disable(Default)



DI030

Enable AIM ID in front of barcode

Code ID



DH000

Disable All Code ID(Default)



DH010

Enable All Code ID



DH040

Disable All 1D Code ID



DH050

Enable All 1D Code ID



DH090

Disable All 2D Code ID



DH091

Enable All 2D Code ID

Prefix And Suffix Order Setting



DR060

None Code ID+Customized Character+AIM ID



DR070

None Code ID+AIM ID+Customized Character



DR080

None AIM ID+Customized Character+Code ID



DR090

None AIM ID+Code ID+Customized Character

Sound Setting

Start Sound



CE000

Disable



CE001

Enable(Default)

Decode Success Sound



CD000

Disable



CD010

Enable(Default)

Decode Success Volume Setting



CD030

High(Default)



CD031

Middle



CD032

Low

Decode Success Tone



CD020

Tone 1(Default)



CD021

Tone 2



CD022

Tone 3

Advanced Function Setting

Scan Delay Function



DN010

Enable Same Barcode Delay



DN020

Cancel Delay



DN030

Enable Delay

Same Barcode Scan Delay Time



DN013

200ms(Default)



DN014

500ms



DN015

1s



DN016

5s



DN017

10s



DN019

30s

Data Edition



ZA240

Send All Data(Default)



ZA241

Only Send The Start Field



ZA242

Only Send The Center Field



ZA243

Only Send The End Field



ZA245

Send The Start and End Field



ZA250

Set Start Field Length



ZA251

Set End Field Length

Inverse Color Barcode Reading



AB260

Normal Color(Default)



AB262

Both (Normal/Inverse)

EAN/UPC Additional Code



EC050

Disable Additional Code 2(Default)



EC060

Enable Additional Code 2



EC070

Disable Additional Code 5(Default)



EC080

Enable Additional Code 5



EC130

Only Decode Additional Code 2



EC140

Only Decode Additional Code 5

Barcode Type Selection

Code 128



EM010

Disable



EM020

Enable(Default)



EA030

Minimum Reading Length

EAN8



EB010

Disable



EB030

Do not Send EAN8 Check Bit



EB090

Expand EAN8 to EAN13



EA040

Maximum Reading Length



EB020

Enable(Default)



EB040

Send EAN8 Check Bit(Default)



EB100

Don't Expand EAN8 to EAN13

EAN13



EC010

Disable



EC020

Enable(Default)



EC030

Don't Send EAN13 Check Bit



EC040

Send EAN13 Check Bit(Default)

UPC-E



ED010

Disable



ED020

Enable(Default)



ED030

Do not Send UPC-E Check Bit



ED040

Send UPC-E Check Bit(Default)



ED090

Do not Send Leading Character



ED100

Send System Character(Default)



ED110

Do not Convert to UPC-A(Default)



ED120

Convert to UPC-A

UPC-A



EE010

Disable



EE020

Enable(Default)



EE030

Do not Send UPC-A Check Bit



EE040

Send UPC-A Check Bit(Default)



EE090

Send System Character



EE100

Send Country Code+System Character(Default)



EE180

Do not Send Leading Character

Interleaved 25



EF010

Disable



EF020

Enable(Default)



EF030

Minimum Reading Length



EF040

Maximum Reading Length



EF050

No Parity Check(Default)



EF060

Parity Check but Don't Send Check Bit



EF070

Parity Check and Send Check Bit

MATRIX 25



EG010

Disable



EG020

Enable(Default)



EG030

Minimum Reading Length



EG040

Maximum Reading Length



EG050

No Parity Check(Default)



EG060

Parity Check but Don't Send Check Bit



EG070

Parity Check and Send Check Bit

Code 39



EI010

Disable



E1020

Enable(Default)



E1030

Minimum Reading Length



E1040

Maximum Reading Length



E1050

No Parity Check(Default)



E1060

Parity Check but Don't Send Check Bit



E1070

Parity Check and Send Check Bit



E1080

Don't Send Start&End Character(Default)



EI090

Send Start&End Character



EI110

Full ASCII Code39



EI100

Standard Code 39(Default)

Code 32



EI120

Enable



EI130

Disable(Default)

Codabar



EJ010

Disable



EJ020

Enable(Default)



EJ030

Minimum Reading Length



EJ040

Maximum Reading Length



EJ050

No Parity Check(Default)



EJ060

Parity Check but Don't Send Check Bit



EJ070

Parity Check and Send Check Bit



EJ080

Don't Send Start&End Character(Default)



EJ090

Send Start&End Character

Code 93



EK010

Disable



EK020

Enable(Default)



EK030

Minimum Reading Length



EK040

Maximum Reading Length

Industrial 25



ER010

Disable



ER020

Enable(Default)



ER030

Minimum Reading Length



ER040

Maximum Reading Length



ER050

No Parity Check(Default)



ER060

Parity Check but Don't Send Check Bit



ER070

Parity Check and Send Check Bit

Standard 25



ES010

Disable



ES020

Enable(Default)



ES030

Minimum Reading Length



ES040

Maximum Reading Length



ES050

No Parity Check(Default)



ES060

Parity Check but Don't Send Check Bit



ES070

Parity Check and Send Check Bit

Plessey



ET010

Disable



ET020

Enable(Default)



ET030

Minimum Reading Length



ET040

Maximum Reading Length



ET050

No Parity Check(Default)



ET060

Parity Check but Don't Send Check Bit



ET070

Parity Check and Send Check Bit

MSI



EU010

Disable



EU020

Enable(Default)



EU030

Minimum Reading Length



EU040

Maximum Reading Length



EU050

No Parity Check(Default)



EU060

Single MOD10 Parity Check



EU070

Double MOD10 Parity Check



EU080

MOD10/MOD11 Double Parity Check



EU090

Don't Send Check Bit



EU100

Send Check Bit

Code 11



FI020

Enable(Default)



FI010

Disable



EP030

Minimum Reading Length



EP040

Maximum Reading Length



EP050

No Parity Check



EP060

1 Check Bit, MOD11



EP070

2 Check Bits, MOD11/MOD11



EP130

Parity Check but Don't Send Check Bit



EP140

Parity Check and Send Check Bit

RSS 14



FL020

RSS 14 Limited Enable(Default)



FL010

RSS 14 Limited Disable



FM020

RSS 14 Truncated Enable



FM010

RSS 14 Truncated Disable



EN050

Don't Send RSS AI(01) Character(Default)



EN060

Send RSS AI(01) Character

QR Code



FC010

Disable



FC020

Enable(Default)



FC030

Minimum Reading Length



FC040

Maximum Reading Length



FC140

Enable URL Link(Default)



FC150

Disable URL Link

Micro QR



FR020

Enable(Default)



FR010

Disable

PDF417



FB010

Disable



FB020

Enable(Default)



FB030

Minimum Reading Length



FB040

Maximum Reading Length

Micro PDF417



FQ020

Enable(Default)



FQ010

Disable

Data Matrix



FE010

Disable



FE020

Enable(Default)



FE030

Minimum Reading Length



FE040

Maximum Reading Length

Hanxin Code



FT010

Disable(Default)



FT020

Enable

Aztec



FD010

Disable(Default)



FD020

Enable

Maxicode



Disable(Default)



Enable

ISBN



Disable(Default)



Enable

ISSN



Enable



Disable(Default)

Default Barcode Type Parameters Table

Type	Read	Parity Check	Send Check Bit	Minimum Reading Length	Maximum Reading Length
Code128	YES	YES	YES	1	255
EAN-8	YES	YES	YES	8	8
EAN-13	YES	YES	YES	13	13
UPC-E	YES	YES	YES	7	7
UPC-A	YES	YES	YES	12	12
Interleave 2 5	YES	YES	YES	6	255
Matrix 2 5	YES	YES	YES	6	255
Code39	YES	YES	YES	1	255
Code32	NO	NO	NO	8	8
Codabar	YES	YES	NO	4	255
Code93	YES	YES	NO	1	255
RSS	YES	NO	NO	1	255
Industrial 2 5	YES	NO	NO	6	255
Standard 2 5	YES	NO	NO	6	255
Plessey	YES	NO	NO	4	60
MSI	YES	NO	NO	6	32
QR	YES	NO	NO		
PDF417	YES	NO	NO		
DM	YES	NO	NO		

Code ID Table

Code Type	Code ID
UPCA	A
UPCE	B
EAN8	C
EAN13	D
ISSN	D
ISBN	D
CODE 128	G
GS1 128	H
ISBT128	J

CODE 39	K
CODE 93	L
CODE 11	M
ITF 25	N
ITF 6	O
ITF 14	P
MATRIX 25	S
IN 25	U
STANDARD 25	V
CODABAR	W
UK	X
MSI	Y
GS1	Z
PLESSEY	a
QR	b
QR Code	51
PDF417	c
DM	d
GM	l
Micro PDF417	w
Micro QR	x
AZTEC	y
Hanxin	z

ASCII Table

BIN	DEC	HEX	COM	Keyboard
0000 0000	0	00	NUL	NULL
0000 0001	1	01	SOH	ENTER
0000 0010	2	02	STX	CAPS LOCK
0000 0011	3	03	ETX	NULL
0000 0100	4	04	EOT	NULL
0000 0101	5	05	ENQ	NULL
0000 0110	6	06	ACK	NULL
0000 0111	7	07	BEL	ENTER
0000 1000	8	08	BS	←
0000 1001	9	09	HT	TAB
0000 1010	10	0A	LF	↓
0000 1011	11	0B	VT	TAB
0000 1100	12	0C	FF	DELETE

0000 1101	13	0D	CR	ENTER
0000 1110	14	0E	SO	INSERT
0000 1111	15	0F	SI	ESCAPSE
0001 0000	16	10	DLE	F11
0001 0001	17	11	DC1	HOME
0001 0010	18	12	DC2	PRINT SCREEN
0001 0011	19	13	DC3	DELETE
0001 0100	20	14	DC4	TAB+SHIFT
0001 0101	21	15	NAK	F12
0001 0110	22	16	SYN	F1
0001 0111	23	17	ETB	F2
0001 1000	24	18	CAN	F3
0001 1001	25	19	EM	F4
0001 1010	26	1A	SUB	F5
0001 1011	27	1B	ESC	F6
0001 1100	28	1C	FS	F7
0001 1101	29	1D	GS	F8
0001 1110	30	1E	RS	F9
0001 1111	31	1F	US	F10
0010 0000	32	20	(SPACE)	(SPACE)
0010 0001	33	21	!	!
0010 0010	34	22	"	"
0010 0011	35	23	#	#
0010 0100	36	24	\$	\$
0010 0101	37	25	%	%
0010 0110	38	26	&	&
0010 0111	39	27	'	'
0010 1000	40	28	((
0010 1001	41	29))
0010 1010	42	2A	*	*
0010 1011	43	2B	+	+
0010 1100	44	2C	,	,
0010 1101	45	2D	-	-
0010 1110	46	2E	.	.
0010 1111	47	2F	/	/
0011 0000	48	30	0	0
0011 0001	49	31	1	1
0011 0010	50	32	2	2
0011 0011	51	33	3	3
0011 0100	52	34	4	4
0011 0101	53	35	5	5
0011 0110	54	36	6	6

0011 0111	55	37	7	7
0011 1000	56	38	8	8
0011 1001	57	39	9	9
0011 1010	58	3A	:	:
0011 1011	59	3B	;	;
0011 1100	60	3C	<	<
0011 1101	61	3D	=	=
0011 1110	62	3E	>	>
0011 1111	63	3F	?	?
0100 0000	64	40	@	@
0100 0001	65	41	A	A
0100 0010	66	42	B	B
0100 0011	67	43	C	C
0100 0100	68	44	D	D
0100 0101	69	45	E	E
0100 0110	70	46	F	F
0100 0111	71	47	G	G
0100 1000	72	48	H	H
0100 1001	73	49	I	I
0100 1010	74	4A	J	J
0100 1011	75	4B	K	K
0100 1100	76	4C	L	L
0100 1101	77	4D	M	M
0100 1110	78	4E	N	N
0100 1111	79	4F	O	O
0101 0000	80	50	P	P
0101 0001	81	51	Q	Q
0101 0010	82	52	R	R
0101 0011	83	53	S	S
0101 0100	84	54	T	T
0101 0101	85	55	U	U
0101 0110	86	56	V	V
0101 0111	87	57	W	W
0101 1000	88	58	X	X
0101 1001	89	59	Y	Y
0101 1010	90	5A	Z	Z
0101 1011	91	5B	[[
0101 1100	92	5C	\	\
0101 1101	93	5D]]
0101 1110	94	5E	^	^
0101 1111	95	5F	_	_
0110 0000	96	60	,	,
0110 0001	97	61	a	a

0110 0010	98	62	b	b
0110 0011	99	63	c	c
0110 0100	100	64	d	d
0110 0101	101	65	e	e
0110 0110	102	66	f	f
0110 0111	103	67	g	g
0110 1000	104	68	h	h
0110 1001	105	69	i	i
0110 1010	106	6A	j	j
0110 1011	107	6B	k	k
0110 1100	108	6C	l	l
0110 1101	109	6D	m	m
0110 1110	110	6E	n	n
0110 1111	111	6F	o	o
0111 0000	112	70	p	p
0111 0001	113	71	q	q
0111 0010	114	72	r	r
0111 0011	115	73	s	s
0111 0100	116	74	t	t
0111 0101	117	75	u	u
0111 0110	118	76	v	v
0111 0111	119	77	w	w
0111 1000	120	78	x	x
0111 1001	121	79	y	y
0111 1010	122	7A	z	z
0111 1011	123	7B	{	{
0111 1100	124	7C		
0111 1101	125	7D	}	}
0111 1110	126	7E	~	~
0111 1111	127	7F	DEL	DEL

Setting Parameter Barcode



AA000

0



AA010

1



AA020

2



AA030

3



AA040

4



AA050

5



AA060

6



AA070

7



AA080

8



AA090

9



AA100

A



AA110

B



AA120

C



AA130

D



AA140

E



AA150

F



AA160

Save



AA170

Cancel previous 1 reading data



AA180

Cancel a string of data from previous read



AA190

Cancel current setting