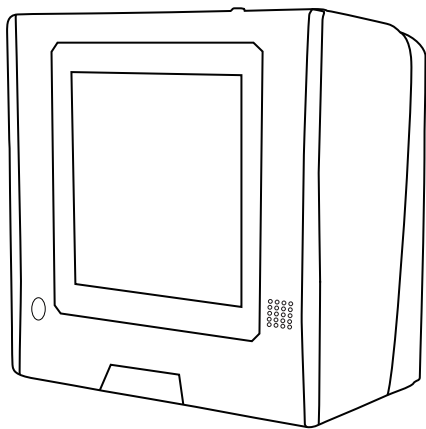


2D Desktop Barcode Scanner User Manual



BROCHURE

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1. Brief Introduction

This user manual is applicable to desktop barcode scanners which all adopt 2D imaging scanner to read 1D and 2D barcodes. They are applied the fully-new researched full set of patent technology with powerful scanning capability. It supports continuously scanning mode, features with fast scanning speed and flexible scanning performance. This chapter will introduce the using methods step by step together with illustrations, when reading the user manual please combine the product at hand bought for better understanding. The chapter is applicable to normal user, maintenance personnel and software developer.

2. Product features

- * Fully independent research and development, own full set of patents, Plug and Play, no need to install drivers.
- *Wide-voltage design to avoid transmitted data fail to be uploaded due to voltage fluctuations.
- *Adopting 32 bit master chip which equipped with patented software, can smoothly decode reflective, wrinkled, blur and color barcode, under strong light and dark light environment, it can also decode barcodes properly.
- *Support a variety of interfaces such as RS232, USB, usb-com, in that case ensure that you can compatible with existing and prospective terminal.
- * Smooth and harmonious appearance can reduce user fatigue, making the operation very comfortable, so that the working efficiency significantly improved.

3. Product parameters

Sensor: 1280*1024 CMOS

Symbologies: 1D: EAN-8、EAN-13、EAN-13 2 add-on、EAN-13 5 add-on、
ISSN、ISBN、UPC-A、UPC-E、Code11、Code 32、Code 39、
Code 93、Code 128、Codabar、Industrial 2 of 5、
Interleaved 2 of 5、Matrix 2 of 5、GS1-128、GS1 DataBar(RSS14)、
GS1 DataBar Limited、GS1 DataBar Expanded

2D: PDF417、MicroPDF417、MicroQR、Data Matrix、QR、Aztec

Depth of field:	Tested Code	Min	Max
	5mil code39	1cm	15cm
	UPC-13mil	1cm	29cm
	20 mil code39	1cm	32cm
	20 mil QR Code	1cm	28cm

OS: Linux、Android、Windows XP、7、8、10、MAC

Min resolution: Code 39 4mil

Decode Capacity : 1D/2D Codes on printed paper and mobile phone screen

Motion Tolerance: 4.0 meters/sec

Scan Mode: Auto Scan

Countires Keyboard : English, French, Italian, German, Spanish, Japanese, Russian,
Arabic, Irish, Polish, Dutch, Czech, Portuguese (Portuguese,
Brazilian), Swedish, Turkish F, Turkish Q, Greek , Finnish,
Belgian (French)、English (UK)

Data output editing : Prefix & Suffix editable

Print Contrast: 20%

Scan Angle : Roll $\pm 360^{\circ}$, Skew $\pm 60^{\circ}$, Pitch $\pm 70^{\circ}$

Indicator: LED, BEEPER

Button on top: Enable/disable 2D Barcodes

Drop: Withstand drop from 1.5 meters 3 times

Sealing : IP54

Operating Temperature : -20-55℃

Storage Temperature: -20-60℃

Operating Humidity : 5-95% Non condensing

Storage Humidity : 5-95% Non condensing

Ambient Light : 0-70000LUX

Cable length : 180CM(± 3 CM)

Interface: USB, RS232, USB-COM

Voltage : 5V

USB: Standby power (200mA/1W)

Operating Power (362mA/1.81w)

Max Power (416mA/2.08W)

RS232: Standby Power (202mA/1.01W)

Operating Power (362mA/1.81w)

Max Power (420mA/2.1W)

4. Barcode Menu

This model of laser desktop barcode scanner is designed to change settings by reading some special barcode, which we will give you a detailed introduction and show you all the barcodes for the corresponding setting in this section. The greatest advantage of this setting method is direct, intelligible and user friendly.

4.1 Mark Setting



4.2 Setting barcodes



Configuration Code Turn on (Default)



Configuration Code Turn off

4.2.2 Restore Factory Defaults



Restore Factory Defaults

4.2.3 Read product batch version



Product Batch Version

4.2.4 Read user defaults

Save the current menu settings as user-defined menu settings.



Save User Defaults

You can restore the menu settings for the user-defined menu settings



Restore User Defaults

4.2.5 Interface Setting

This desktop scanner support USBKB、USB to serial port、serial port interface。You can set USB PC KB、USB MAC KB interface by scanning below barcode。



USB MAC KB



USB KB (Default)

You can set serial port interface by scanning below barcode



Serial Port

You can set USB to serial port interface by scanning below barcode. (Need drive, please contact the sales)



USB To Serial Port

4.2.6 Serial port setting

4.2.6.1 Baud rate setting



Baud Rate 4800



Baud Rate 38400



Baud Rate 57600



Baud Rate 9600 (Default)



Baud Rate 19200



Baud Rate 115200

4.2.7 Start character Setting



Cancel Start Character



Add STX As Start Character

4.2.8 Ending character Setting



Cancel Ending Character



Add CR



Add LF



Add CRLF



Add Tab



Add ETX

4.2.9 Customized Prefix and Suffix Setting Instructions and Examples

Customized Prefix and Suffix Setting Instructions and Examples Scan setting barcode to set prefix/suffix, maximum characters of each prefix/suffix are 10. To ensure that the customized prefix and suffix can be output, please default enable scanner's user-defined prefix and suffix setting.

Example 1.1: Add Customized prefix and suffix to all symbologies For example, to add Customized prefix XYZ and query symbology in Symbology Type ID Chart to find all symbologies' HEX value is 99. Query ASCII Code Table, XYZ's corresponding HEX value is 58,59,5A. Scan setting barcode "Customized Prefix", scanner will emit with two beep sounds, then scan the barcodes in Data and Programming Chart 9, 9, 5, 8, 5, 9, 5, A and scan "Save" setting barcode to finish setting. Before saving, if you need to modify the scanned barcode, you can scan "Discard the Previous Scanned Data" or "Discard the Previous Scanned Data String" to reset. If you need to give up the current setting half way, just scan "Discard the Current Setting".

Example 1.2: Add Customized Prefix and Suffix to Single Symbology For example, to add customized prefix Q to QR code, query Symbology Type ID Chart to find QR code's HEX value is 73. And query ASCII Code Table to find Q's corresponding HEX value is 51. Scan setting barcode "Customized Prefix", and then scan the barcodes in Data and Programming Chart 7, 3, 5, 1, and scan "Save" setting barcode to finish setting.

Example 1.3: Remove Customized Prefix and Suffix of Single Symbology For example, to remove the Customized prefix of QR code. When customize the prefix and suffix, don't add any other characters to the symbology characters, scan "Save" to remove the Customized prefix and suffix to this type of barcode. Scan the setting barcode "User Define Prefix", then scan the barcodes in appendix table 7,3, and scan "Save" setting barcode to finish setting.

Note: If previously, you have added a prefix to all symbologies, after setting, the prefix of QR code will revert to the prefix added for all symbologies.

If you need to remove the prefix/suffix to all symbologies, please scan "Discard All Customized Prefix" and "Discard All Customized Suffix" setting barcodes.

4.2.9 User-defined prefix

Output



Enable User-Defined Prefix



Disable User-Defined Prefix (Default)

Edit



Clear All User-Defined Prefix



User-Defined Prefix

(After scan this code you can set the prefix you want based on the data and barcode in table ID)

4.2.10 User-defined suffix

Output



Enable User-Defined Suffix



Disable User-Defined Suffix (Default)

Edit



Clear All User-Defined Suffix



User-Defined Suffix

4.2.11 Line feed setting (USB keyboard)



Only 0A (Line Feed) Works



Only 0D (Carriage Return) Works (Default)



Both 0A (LR) And 0D (CR) Works

4.2.12 Unicode Output Mode



English Output (Default)



Unicode Output (Notepad/Excel)



Unicode Output (Word)

4.2.13 Character escape



Enable Character Escape



Disable Character Escape (Default)

4.2.14 GS Control character replacement (Need enable control character escape)



No Replacement (Default)



Replace To ^]



Replace To <GS>



Replace To |



Replace To]



Replace To ¢

Note: To output the character “ ¢ ”, you must scan “Virtual Keyboard On (Mode 1)” or (Mode 2) or (Mode 3) first.

4.2.15 Virtual keyboard

Mode 1: The characters between 0x20 and 0xFF are output in the virtual keyboard mode that is not supported by the current keyboard layout. The characters between 0x00 and 0x1F are defined according to the control characters.

Mode 2: All characters between 0x20 and 0xFF are output under the virtual keyboard mode, and characters between 0x00 and 0x1F are defined according to the control characters.

Mode 3: The characters used between 0x00 and 0xFF are output under the virtual keyboard mode.



Disable Virtual Keyboard (Default)



Enable Virtual Keyboard (Mode 1)



Enable Virtual Keyboard (Mode 2)



Enable Virtual Keyboard (Mode 3)

4.2.16 Option of host operating system under the virtual keyboard mode



WINDOWS (Default)



MAC OS



LINUX

4.2.17 CODE ID

Output Option



Disable CODE ID (Default)



Enable CODE ID Before The Barcode



Enable CODE ID After The Barcode



User-Defined CODE ID

(After scan this code you can set the prefix you want based on the data and barcode in table ID)



Clear All User-Defined CODE ID

4.2.18 Inverse code option

(Only 1D/DataMatrix/Aztec)



Only Decode Normal Code (Default)



Only Decode Inverse Code



Decode Both Normal Code And Inverse Code

4.3 Beeper and LED notifications

4.3.1 Beeper Volume setting



Volume Low



Volume High (Default)

4.3.2 Start-up beep



Shut Down Start-Up Beep



Open Start-Up Beep (Default)

4.3.3 Good read beep



Good Read Beep Off



Good Read Beep On (Default)

4.3.4 Beep pitch-good read



Low Pitch



Middle Pitch (Default)



High Pitch

4.3.5 Beep duration-good read



Tone Long (Default)



Tone Pip

4.3.6 Good-read LED



Good-Read LED Off



Good-Read LED On (Default)

4.4 Timeout between decodes (Same barcodes)

By default, the interval time between first scanning and second scanning for same barcode is 200ms. To avoid being repeatedly with a barcode, you can set the scan interval.



300ms



500ms



750ms (Default)



1s



2s

4.5 USB keyboard setting

2.5.1 USB keyboard update speed setting

There barcode is used to set the update speed when scanner is in USB keyboard pattern. If the performance of your PC is lower, we suggest you choose slow update speed to make sure the scanner update the right data.



Slow Update Speed (Default)



Middle Update Speed



Fast Update Speed



User-Defined Update Speed
(2ms~50ms)

4.5.2 USB keyboard text-transform



Normal Output (Default)



Case Reversal



All Caps



Lower Case

4.6 Keyboard layout setting



English (United States)



French (France)



Italian (Italy)



Italian 142 (Italy)



German (Germany)



Spanish (Spain)



Finnish



Japanese



Russian (MS)



Russian (Typewriter)



Arabic (101)



Irish



Polish (214)



Polish (Programmers)



Dutch (Netherlands)



Czech (QWERTZ)

4.7 data editing

4.7.1 Transmission setting



Original Bar Code Data



Transfer Only The Start Field



Transfer Only Intermediate Fields



Transfer Only End Fields

4.7.2 Field length setting



Set The Start Length



Set The End Length

Note: The field length is configured in bytes, using 10-digit data.

For example, set the start length to 10 bytes, scan the start length bar code, and then scan the appendix data and edit the 1,0 bar code, save, that is, complete the configuration.

4.8 Symbologies

4.8.1 Enable/disable all Symbologies

Enable all barcode might slow down scanner decode speed. We suggest enable the barcode you need based on your scene. Enable all barcode is default



Enable All Symbologies



Disable All Symbologies

4.8.2 Enable/disable all 1D Symbologies



Enable All 1D Symbologies



Disable All 1D Symbologies

4.8.3 Enable/disable all 2D Symbologies



Enable All 2D Symbologies



Disable all 2D Symbologies

4.8.4 Codabar



Enable Codabar



Disable Codabar

4.8.5 Codabar start/ending character setting

Don't Send Codabar Start/Ending
Character (Default)

Send Codabar Start/Ending Character

2.8.6 Codabar Length Limitation



Codabar Min Length Limit (0~50 bits)



Codabar Max Length Limit (0~50 bits)

4.8.7 Code 11



Enable Code 11



Disable Code 11 (Default)

4.8.8 Code 11 check bit output



Enable Code 11 Check Bit Output



Disable Code 11 Check Bit Output (Default)

4.8.9 Code 11 check bit option



Disable Code 11 (Default)



Code 11 One Check Bit



Code 11 Two Check Bits

4.8.10 Code 11 length limitation



Codabar Min Length Limit (0~50 bits)



Codabar Max Length Limit (0~50 bits)

4.8.11 Code 39



Enable Code 39



Disable Code 39

4.8.12 Code 39 check bit



Disable Code 39 Check (Default)



Enable Code 39 Check Don't Send Check Bit



Enable Code 39 Check Send Check Bit

4.8.13 Code 32 (Code 39 needs to be enabled)



Enable Code 32



Disable Code 32

4.8.14 Interleaved 2 of 5 (ITF5)



Enable ITF25



Disable ITF25

4.8.15 Interleaved 2 of 5 (ITF5) check bit



Disable ITF25 Check (Default)



Enable ITF25 Check Don't Send Check Bit

4.8.16 Interleaved 2 of 5 (ITF5) length setting



ITF25 No Fixed Length (4-24) (Default)



ITF25 Fixed Length of 6



ITF25 Fixed Length of 8



ITF25 Fixed Length of 10 Digits



ITF25 Fixed Length of 12 Digits



ITF25 Fixed Length of 14 Digits



ITF25 Fixed Length of 16 Digits



ITF25 Fixed Length of 18 Digits



ITF25 Fixed Length of 20 Digits



ITF25 Fixed Length of 22 Digits



ITF25 Fixed Length of 24 Digits

4.8.17 Interleaved 2 of 5 length limitation



Interleaved 2 of 5 Maximum
length limit (0~50bits)



Interleaved 2 of 5 Min Length
Limit (0~50bits)

4.8.18 Industrial 2 of 5 (4-24 digits)



Enable Industrial 2 of 5



Disable Industrial 2 of 5

4.8.19 Industrial 2 of 5 length limitation



Industrial 2 of 5 Min Length
Limit (0~50bits)



Industrial 2 of 5 Max Length
Limit (0~50bits)

4.8.20 Matrix 2 of 5 (4-24)



Enable Matrix 2 of 5



Disable Matrix 2 of 5

4.8.21 Matrix 2 of 5 length limitation

Matrix 2 of 5 Min Length Limit
(0~50bits)Matrix 2 of 5 Max Length Limit
(0~50bits)

4.8.22 Code 93



Enable Code 93



Disable Code 93

4.8.23 Code 128



Enable Code 128



Disable Code 128

4.8.24 GS1-128



Enable GS1-128



Disable GS1-128

4.8.25 UPC-A



Enable UPC-A



Disable UPC-A

4.8.26 UPC-A check bit



Send UPC-A Check Bit (Default)



Don't Send UPC-A Check Bit

4.8.27 UPC-A to EAN-13



Enable UPC-A To EAN-13



Disable UPC-A To EAN-13 (Default)

4.8.28 UPC-E



Enable UPC-E



Disable UPC-E

4.8.29 UPC-E check bit



Send UPC-E Check Bit (Default)



Don't Send UPC-E Check Bit

4.8.30 UPC-E to UPC-A



Enable UPC-E To UPC-A



Disable UPC-E To UPC-A (Default)

4.8.31 EAN/JAN-8



Enable EAN/JAN-8



Disable EAN/JAN-8

4.8.32 EAN/JAN-13



Enable EAN/JAN-13



Disable EAN/JAN-13

4.8.33 UPC/EAN/JAN extra bit



Ignore UPC/EAN/JAN Extra Bit (Default)



Decode UPC/EAN/JAN Extra Bit



Auto adapt UPC/EAN/JAN Extra Bit

4.8.34 EAN13 turn ISBN



Enable EAN13 Turn ISBN



Disable EAN13 Turn ISBN (Default)



Enable EAN13 Turn ISSN



Disable EAN13 Turn ISSN (Default)

4.8.35 GS1 DataBar (RSS14)



Enable GS1 DataBar



Disable GS1 DataBar

4.8.36 GS1 DataBar Limited



Enable GS1 DataBar Limited



Disable GS1 DataBar Limited

4.8.37 GS1 DataBar Expanded



Enable GS1 DataBar Expanded



Disable GS1 DataBar Expanded

4.8.38 PDF417



Enable PDF417



Disable PDF417

4.8.39 Micro PDF417



Enable Micro PDF417



Disable Micro PDF417

4.8.40 QR Code



Enable QR



Disable QR

4.8.41 Micro QR



Enable Micro QR



Disable Micro QR

4.8.42 Data Matrix



Enable Data Matrix



Disable Data Matrix

4.8.43 Aztec Code



Enable Aztec



Disable Aztec

Appendix

Appendix 1 Data and Programming Chart



0



2



4



6



8



1



3



5



7



9



A



C



E



Cancel The Data Read Last Time



Cancel Current Setting



B



D



F



Cancel All Data Read Before



Save

Appendix 2 Symbology Type ID Chart

Symbology Type	HEX	CODE ID (Default)
All Symbologies	99	
Codabar	61	a
Code128	6A	j
Code32	3C	<
Code93	69	i
Code39	62	b
Code11	68	h
EAN		
EAN-13	64	d
EAN-8	44	D
GS1		
GS1 DataBar	79	y
GS1 DataBar Limited	7B	{
GS1 DataBar Expanded	7D	}
GS1-128 (EAN-128)	49	I
2 of 5		
Interleaved 2 of 5	65	e
Matrix 2 of 5	6D	m
Industry 2 of 5	66	f
UPC		
UPC-A	63	c
UPC-E	45	E
Aztec Code	7A	z
DataMatrix	77	w
PDF417	72	r
Micro PDF417	52	R
QR Code	73	s
Micro QR Code	73	s

Appendix 3 ASCII Code Table

Decimal	Hexadecimal	Character	Decimal	Hexadecimal	Character	Decimal	Hexadecimal	Character
32	20	<SPACE>	64	40	@	96	60	`
33	21	!	65	41	A	97	61	a
34	22	"	66	42	B	98	62	b
35	23	#	67	43	C	99	63	c
36	24	\$	68	44	D	100	64	d
37	25	%	69	45	E	101	65	e
38	26	&	70	46	F	102	66	f
39	27	'	71	47	G	103	67	g
40	28	(	72	48	H	104	68	h
41	29	)	73	49	I	105	69	i
42	2A	*	74	4A	J	106	6A	j
43	2B	+	75	4B	K	107	6B	k
44	2C	,	76	4C	L	108	6C	l
45	2D	-	77	4D	M	109	6D	m
46	2E	.	78	4E	N	110	6E	n
47	2F	/	79	4F	O	111	6F	o
48	30	0	80	50	P	112	70	p
49	31	1	81	51	Q	113	71	q
50	32	2	82	52	R	114	72	r
51	33	3	83	53	S	115	73	s
52	34	4	84	54	T	116	74	t
53	35	5	85	55	U	117	75	u
54	36	6	86	56	V	118	76	v
55	37	7	87	57	W	119	77	w
56	38	8	88	58	X	120	78	x
57	39	9	89	59	Y	121	79	y
58	3A	:	90	5A	Z	122	7A	z
59	3B	;	91	5B	[	123	7B	{
60	3C	<	92	5C	\	124	7C	
61	3D	=	93	5D	]	125	7D	}
62	3E	>	94	5E	^	126	7E	~
63	3F	?	95	5F	_			

Appendix 4 Editor Commands (USB HID)

Decimal	Hexadecimal	Corresponding Key (Disable Control Character Escape)	Corresponding Key (Enable Control Character)
0	00	Remain	Ctrl+@
1	01	Insert	Ctrl+A
2	02	Home	Ctrl+B
3	03	End	Ctrl+C
4	04	Delete	Ctrl+D
5	05	PageUp	Ctrl+E
6	06	PageDown	Ctrl+F
7	07	ESC	Ctrl+G
8	08	Backspace	Backspace
9	09	Tab	Tab
10	0A	Enter	Ctrl+J
11	0B	Caps Lock	Ctrl+K
12	0C	Print Screen	Ctrl+L
13	0D	Enter	Enter
14	0E	Scroll Lock	Ctrl+N
15	0F	Pause/Break	Ctrl+O
16	10	F11	Ctrl+P
17	11	Arrow key ↑	Ctrl+Q
18	12	Arrow key ↓	Ctrl+R
19	13	Arrow key ←	Ctrl+S
20	14	Arrow key →	Ctrl+T
21	15	F12	Ctrl+U
22	16	F1	Ctrl+V
23	17	F2	Ctrl+W
24	18	F3	Ctrl+X
25	19	F4	Ctrl+Y
26	1A	F5	Ctrl+Z
27	1B	F6	ESC
28	1C	F7	Ctrl+\
29	1D	F8	Ctrl+]
30	1E	F9	Ctrl+^
31	1F	F10	Ctrl+_

Appendix 5 Editor Commands (RS-232 and USB Virtual COM)

Decimal	Hexadecimal	Corresponding Characters
0	00	NUL
1	01	SOH
2	02	STX
3	03	ETX
4	04	EOT
5	05	ENQ
6	06	ACK
7	07	BEL
8	08	BS
9	09	HT
10	0A	LF
11	0B	VT
12	0C	FF
13	0D	CR
14	0E	SO
15	0F	SI
16	10	DLE
17	11	DC1
18	12	DC2
19	13	DC3
20	14	DC4
21	15	NAK
22	16	SYN
23	17	ETB
24	18	CAN
25	19	EM
26	1A	SUB
27	1B	ESC
28	1C	FS
29	1D	GS
30	1E	RS
31	1F	US



Buid Information