

WAVE laser viivakoodinlukija -pikaopas

Onnittelut WAVE viivakoodinlukijan hankinnasta! Laitte soveltuu kaikenlaiseen viivakoodien lukemiseen ja helpottaa arkea esimerkiksi kotona, toimistossa, varastossa ja kaupassa.

Laitteen asennus:

Kytke kaapeli ensin viivakoodinlukijaan ja sen jälkeen kaapelin USB -liitin tietokoneeseen ja odota kunnes tietokoneen käyttöjärjestelmä on aktivoinut laitteen. **Nyt laite on valmis käytettäväksi!**

Voit testata laitteen toimivuuden esim. avaamalla tekstinkäsittelyohjelman ja lukemalla viivakoodin.

Laitteen ohjelmoiminen:

Voit muuttaa laitteen toimintoja, kuten viivakoodinlukijan lukutapaa hyödyntämällä ohjelmointioppaan valmiita kommentoja. Katso esimerkki alta:

1. Avaa ohjelmointioppaan sivu 5 ja lue viivakoodi "**Continuous scan**". Nyt viivakoodinlukija lukee jatkuvasti, sinun ei tarvitse painaa "liipaisinta".
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Laitteen palauttaminen tehdasasetuksille:

Jos laitteen toimintoja on uudelleen ohjelmoitu eikä laite ei toimi enää normaalisti, voit palauttaa laitteen tehdasasetuksille alla olevan ohjeen mukaan.

1. Avaa mukana toimitettu ohjelmointioppas sivulle 5 (Function settings)
 2. Lue viivakoodi "**reset factory defaults**", jolloin viivakoodinlukija palautuu tehdasasetuksille.
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Huom! Suurimmassa osassa verkkopankeista sinun täytyy valita ensin "Lue viivakoodi" ennen viivakoodin lukemista.

Viivakoodinlukija on CE-sertifioitu EMC-direktiivien mukaan EN61000-6-3:2007+A1:2011, EN61000-6-1:2007, EN61000-3-2:2006+A1:2009+A2:2009 ja EN61000-3-3:2013 mukaan. Bat.Power Oy (valmistuttaja) vakuuttaa, että tämä tuote täyttää sitä koskevat oleelliset vaatimukset ja muut direktiivin 2004/108/EC ehdot.

Tämä viivakoodinlukija on **luokan 1 laserlaite**. Laitte toimii 650nm aallonpituudella ja suurin säteilyteho on 5mW. Turvallisuusluokitukseen käytetty standardi **EN 60825-1: 2007**.

Wired Barcode Scanner User Manual

Thank you for choosing our company's product. To have a better operating experience, please read this manual carefully.

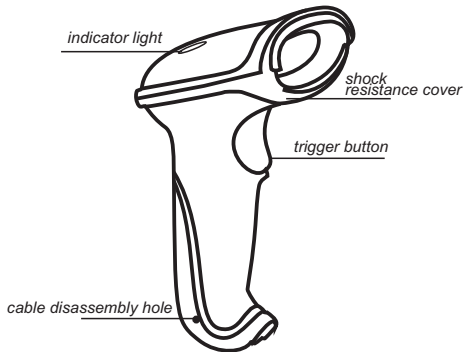
Packing list:

- 1*barcode scanner
- 1*cable (USB/KB/COM)
- 1*user manual
- 1*stand (optional)

Product Introduction

This is a plug & play wired laser barcode scanner that can read all the standard 1D bar codes including UPC-A, UPC-E, EAN-13/JAN-13, ISBN/ISSN code, EAN-8/JAN-8, code 39, code 93, code 128, Interleaved 2 of 5, industrial 2 of 5, Chinese Postal Code, MSI/Plessey and Codabar. We offer USB, PS/2 and RS232 interface for users' choice. This barcode scanner has the advantages of easy operation and low error rate. It'll be a good partner with you.

Housing Design Description

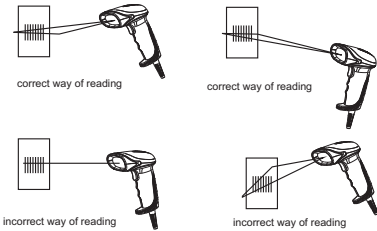


To pull out the cable from the scanner, please plug in the clip to the cable disassembly hole.



Reading Angle

- Maintain a bevel between the scanner and the barcode to make a best reading.
- Do not keep the scanner in 90° with the barcode, otherwise the scanner can't read.
- The scanner must aim at the barcode and the beam must cover the whole barcode. If don't, error may occur.



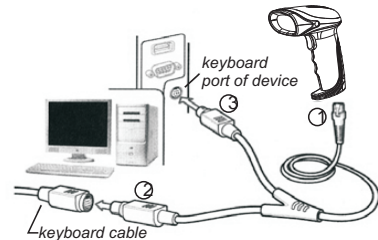
Connecting the Scanner

USB:

Connect the USB cable to the USB interface in the computer.

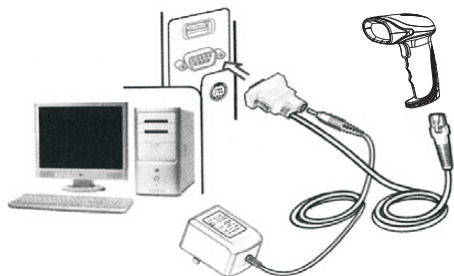
PS/2:

1. Shut off the power supply of the host.
2. Pull out the keyboard of the host.
3. Confirm the PS/2 cable is suitable for the connection of the host.
4. Connect the scanner to the host.
5. Connect the keyboard port to the PS/2 cable.
6. Open the host.



RS232:

1. Shut off the power supply of the host.
2. Confirm the connection is correct from the RS232 to the host.
3. Connect the AC adaptor to the power port of the scanner or connect the keyboard port of the host to the keyboard port of the scanner.
4. Open the host.
5. Scan the setup barcode to set the output mode as RS232 (serial mode).



Technical Parameters

Performance Parameters

Interface	USB,RS232,PS/2
Baud rate	Rs232 baud rate: 1200-115200
Light source	Visible laser 650nm (national laser safety standard class 1)
Decoding capability	Code 39, Code 93, Code128, UCC/EAN-128, EAN-8, EAN-13, UPC-A, ISSN+2, ISBN+5, Industrial 25, ect.
Trigger mode	Manual trigger, auto scanning, continuous scanning
Sensing distance	15cm(100cm ²)
Resolution	Minimum 0.1mm(4mils)
Depth of field	2-9cm(0.1mm bar width); 3-50cm(0.3mm bar width)
Decoding speed	300scans/sec
Scanning width	5cm-30cm
Prompt mode	buzzer, indicator light
Contrast	30%
Scan angles	Roll30°, Pitch75°, Yaw65°
Cylinder horizontal	Diameter 35mm

Physical Parameters

Material	ABS+PC
Power supply	DC 5V ±5%
Operating current	50ma(operation mode);30ma(standby mode); 100ma(max peak)
Quiescent current	20mA

Environment Parameters

IP grade	IP 54
Operating Temp.	0 to 50 °C / 32 to 122 °F
Storage Temp.	0 to 50 °C / 32 to 122 °F
Operating Humidity	20 - 85% (non-condensing)
Storage Humidity	20 - 85% (non-condensing)
ESD protection	15KV air discharge
Shock resistance	1.5m free fall on concrete surface

Automatic Function Settings

1. If it is an automatic barcode scanner, it has already been well set with the auto scanning function. When there's an object passes the sensitive area (the sensitive area depends on the size of the object, normally is 5cm-30cm), the scanner will scan automatically. After it reads a bar code successfully, the light will be off and a trigger cycle finished. The scanner will read again when there's an object passes the sensitive area.
2. For the automatic barcode scanner with stand, the red light of the scanner will be on when the scanner is power on and put on the stand. This means the auto scanning function is on. When the scanner is removed from the stand, the red light will be off. Now the auto scanning function is off and the scanner turns to manual trigger mode.
3. Press the button for 10 seconds, the scanner will turn to the auto scanning mode. To switch to manual trigger mode, press the button for 10 seconds again. (This is the patent of our company.)

Notice: After reading a bar code successfully, please clear the barriers in the sensitive area. Otherwise, the scanner won't read again.

Advanced Setup Mode

This function is only for the scanner with the version information V1.00 2007-11-29. To add prefix/suffix or input the first/last few digits, the scanner must be KB interface. Scan the below setup bar code, the scanner will get into advanced setup mode. For more details of how to finish the settings, please contact our after-sales team.



Enter Setup Mode

Function Settings

Output Mode



Version Info



Keyboard Wedge



Reset Factory Defaults



Serial

Buzzer



Good Read
Beep Sound-OFF



Good Read
Beep Sound-Lower



Good Read Beep Sound-ON

Reading Mode



Single Scan



Multiscan



Continuous Scan



Single Scan No Trigger



Multiscan No Trigger



Pulse

Image



Enable



Disable

Code ID



Send Code ID as Prefix



Send Code ID as Suffix



Send Code ID as Prefix-Disable



Send Code ID as Suffix-Disable

Language



American English



French



German



Reset

Character Capital/Lower Case



Capital



Reset



Lower Case

Serial Mode Parameter Settings

Baud Rate



2400



9600



4800



19200

Hand Shake



None



RTS/CTS



Hand Shake Timeout- 2secs



XON/OFF



ACK/NAK



Hand Shake Timeout- 5secs

Data Bits



8



7

Stop Bits



1



2

Check Digits



None



ODD



Even



Mark Check Digit



Space



Reset

Termination String Setup Bar Codes



Cancel Suffix



Termination CHAR-CR



Termination CHAR-space



Termination CHAR-TAB



Termination CHAR-TAB/CR



Termination CHAR-CR+CR



All Codes preamble-STX



All Codes preamble-ETX



Hide the First CHAR



Hide the Last CHAR

Barcode Setting

Code 11



Code 11 /on



Code 11 /off



ID Character 'm'



ID Character 'z'



Code 11
redundancy enable



Code 11
redundancy disable

Code 93



Code 93 /on



Code 93 /off



ID Character 'h'



ID Character 'z'



Code 93
redundancy enable



Code 93
redundancy disable

Code 39



Code 39/on



Code 39/off



Code 39 ALL ASCII-on



Code 39 ALL ASCII-off



Guide character - None



Guide character '+'



Send start/stop
CHARS - enable



ID Character 'a'



Code 39
redundancy enable

Code 128



Code 128 /on



ID Character 'g'



Code 128
redundancy enable

CODABAR



CODABAR/on



Send start/stop
CHARS - enable



Send start/stop
CHARS - disable



ID Character 'z'



Code 39
redundancy disable



Code 128/off



ID Character "z"



Code 128
redundancy disable



CODABAR/off



Send start/stop
CHARS - disable



ID Character 'k'



CODABAR
redundancy enable



Bar width gap
allowed- enable

Interleaved/ITF25



Interleaved/ITF25-on



ID Character 'l'



ITF25 redundancy enable

Industrial 25



Industrial 25/on



ID Character 'k'



Industrial 25
redundancy enable



ID Character 'z'



CODABAR
redundancy disable



Bar width gap
allowed - disable



Interleaved/ITF25-off



ID Character 'z'



ITF25 redundancy disable



Industrial 25/off



ID Character 'z'



Industrial 25
redundancy disable

MSI/PLESSEY



MSI-on



ID Character 'f'



MSI redundancy enable



MSI-off



ID Character 'z'



MSI redundancy disable

UPC-A



UPC-A/on



Convert UPC-A
into EAN13 enable



Transmit system bit enable



Transmit check digit enable



ID Character 'b'



UPC-A/off



Convert UPC-A
into EAN13 disable



Transmit system bit disable



Transmit check digit disable



ID Character 'z'

UPC-E



UPC-E/on



UPC-E/off



Convert UPC-E
into UPC-A enable



Transmit system bit enable



Transmit check digit enable



ID Character 'C'

EAN-13



EAN-13/on



Convert EAN-13
into ISBN enable



Transmit system bit enable



Transmit check digit enable



ID Character 'e'

EAN-8



EAN-8/on



Convert UPC-E
into UPC-A disable



Transmit system bit disable



Transmit check digit disable



ID Character 'z'



EAN-13/off



Convert EAN-13
into ISBN disable



Transmit system bit disable



Transmit check digit disable



ID Character 'z'



EAN-8/off



Transmit system bit enable



Transmit check digit enable



ID Character 'd'

ISBN



ISBN/on



ID Character 'f'

UPC/EAN



UPC/EAN
supplements disable



UPC/EAN
supplements- 5 digits



UPC/EAN redundancy enable

Code 32



CODE 32/on



Transmit system bit disable



Transmit check digit disable



ID Character 'z'



ISBN/off



ID Character 'z'



UPC/EAN
supplements- 2 digits



UPC/EAN
supplements- 2&5 digits



UPC/EAN redundancy disable



CODE 32/off

1. Add prefix

The first step: scan the set-up code below (this step will clear the pre-set prefix)



0C001

Add prefix

The second step: scan the needed character codes (maximum add 10 characters)

E.g. To add prefix "MG", scan character M and G orderly.



\$4D

M



\$47

G

Now "MG" will be added when scanning the normal bar codes.



TEST

Scan the above testing bar code, "MGTEST" will show.

2. Add suffix

The first step: scan the set-up code below (this step will clear the pre-set suffix)



0C002

Add suffix

The second step: scan the needed character codes (maximum add 10 characters)

E.g. To add suffix "OK", scan character O and K orderly.



\$4F

O



\$4B

K

Now "OK" will be added when scanning the normal bar codes.



TEST

Scan the above testing bar code, "TESTOK" will be shown.

3. Hide the front characters

The first step: scan the set-up code below (this step will clear the previous settings)



0C003

Hide the front characters

The second step: scan the number needs to be hidden (maximum hide 10 characters)
E.g. To hide two front characters, scan the set-up code "02".



\$02

STX

Now two front characters will be hidden when scanning the normal bar codes.



123456789

Scan the above testing bar code, "3456789" will be shown.

4. Hide the behind characters

The first step: scan the set-up code below (this step will clear the previous settings)



0C004

Hide the behind characters

The second step: scan the number needs to be hidden (maximum hide 10 characters)
E.g. To hide three behind characters, scan the set-up code "03".



\$03

ETX





































Now three behind characters will be hidden when scanning the normal bar codes.

























































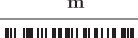


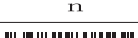

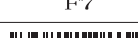



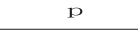
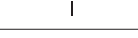

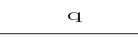
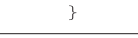

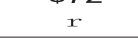


987654321




























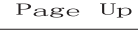





Scan the above testing bar code, "987654" will be shown.

<p>0C001 add prefix</p>	<p>\$08 BS/Back Space</p>	<p>\$14 DC4</p>
<p>0C002 add suffix</p>	<p>\$09 HT/TAB</p>	<p>\$15 NAK</p>
<p>0C003 hide the front characters</p>	<p>\$0A LF</p>	<p>\$16 SYN</p>
<p>0C004 hide the behind characters</p>	<p>\$0B VT</p>	<p>\$17 ETB</p>
<p>\$00 NUL/SP</p>	<p>\$0C FF</p>	<p>\$18 CAN</p>
<p>\$01 SOH</p>	<p>\$0D CR/ENTER</p>	<p>\$19 EM</p>
<p>\$02 STX</p>	<p>\$0E SO</p>	<p>\$1A SUB</p>
<p>\$03 ETX</p>	<p>\$0F SI</p>	<p>\$1B ESC/ESC</p>
<p>\$04 EOT</p>	<p>\$10 DLE</p>	<p>\$1C FS</p>
<p>\$05 ENQ</p>	<p>\$11 DC1</p>	<p>\$1D GS</p>
<p>\$06 ACK</p>	<p>\$12 DC2</p>	<p>\$1E RS</p>
<p>\$07 BEL</p>	<p>\$13 DC3</p>	<p>\$1F US</p>

 \$20 SP	 \$2C ,	 \$38 8
 \$21 !	 \$2D -	 \$39 9
 \$22 "	 \$2E .	 \$3A :
 \$23 #	 \$2F /	 \$3B ;
 \$24 \$	 \$30 0	 \$3C <
 \$25 %	 \$31 1	 \$3D =
 \$26 &	 \$32 2	 \$3E >
 \$27 ,	 \$33 3	 \$3F ?
 \$28 ( \$34 4	 \$40 @
 \$29)	 \$35 5	 \$41 A
 \$2A *	 \$36 6	 \$42 B
 \$2B +	 \$37 7	 \$43 C

 \$44 D	 \$50 P	 \$5C \
 \$45 E	 \$51 Q	 \$5D]
 \$46 F	 \$52 R	 \$5E ^
 \$47 G	 \$53 S	 \$5F _
 \$48 H	 \$54 T	 \$60 `
 \$49 I	 \$55 U	 \$61 a
 \$4A J	 \$56 V	 \$62 b
 \$4B K	 \$57 W	 \$63 c
 \$4C L	 \$58 X	 \$64 d
 \$4D M	 \$59 Y	 \$65 e
 \$4E N	 \$5A Z	 \$66 f
 \$4F O	 \$5B [ \$67 g

 \$68 h	 \$74 t	 \$80 F1
 \$69 i	 \$75 u	 \$81 F2
 \$6A j	 \$76 v	 \$82 F3
 \$6B k	 \$77 w	 \$83 F4
 \$6C l	 \$78 x	 \$84 F5
 \$6D m	 \$79 y	 \$85 F6
 \$6E n	 \$7A z	 \$86 F7
 \$6F o	 \$7B {	 \$87 F8
 \$70 p	 \$7C 	 \$88 F9
 \$71 q	 \$7D }	 \$89 F10
 \$72 r	 \$7E ~	 \$8A F11
 \$73 s	 \$7F DEL	 \$8B F12

 \$8C L SHIFT ON	 \$98 /(KP)	 \$A4 6(KP)
 \$8D L SHIFT OFF	 \$99 *(KP)	 \$A5 7(KP)
 \$8E R SHIFT ON	 \$9A -(KP)	 \$A6 8(KP)
 \$8F R SHIFT OFF	 \$9B +(KP)	 \$A7 9(KP)
 \$90 L ALT ON	 \$9C .(KP)	 \$A8 Inert
 \$91 L ALT OFF	 \$9D Enter(KP)	 \$A9 Delete
 \$92 R ALT ON	 \$9E 0(KP)	 \$AA Home
 \$93 R ALT OFF	 \$9F 1(KP)	 \$AB End
 \$94 L CTRL ON	 \$A0 2(KP)	 \$AC Page Up
 \$95 L CTRL OFF	 \$A1 3(KP)	 \$AD Page Down
 \$96 R CTRL ON	 \$A2 4(KP)	 \$AE Up
 \$97 R CTRL OFF	 \$A3 5(KP)	 \$AF Down

