USER MANUAL

V 2.2

INSTALLATION OF YOUR DEVICE

PC

RS 232 SERIAL PORT

SCANNER

KEYBOARD

PC

KEYBOARD PORT

SCANNER

KEYBOARD

1

PC

KEYBOARD PORT

OUTPUT   INPUT

DECODER

KEYBOARD

WAND, LASER,
CCD, SLOT SCANNER,
BADGE READER, ...

25 PINS D
TYPE MALE

PC

RS 232 SERIAL PORT

OUTPUT   INPUT

DECODER

KEYBOARD

WAND, LASER,
CCD, SLOT SCANNER,
BADGE READER, ...

25 PINS D
TYPE MALE

5 Pin Male
(To PC Keyboard Port)

POWER SUPPLY PORT
DON'T USE IT !!!

MINI+

RS232 --> to Kbd Wdg
Cable

9 Pin Male
(RS232 Device to convert
in Keyboard Wedge)

RECEIVER

RS232
Output

POWER SUPPLY +9V D
(+ on Central Pin)

TTL PORT FOR ADDITIONAL UNDECODED
READER OF SETTING PARAMETERS

5 Pin Female
(To Keyboard connector)

2

USING THIS MANUAL TO SETUP YOUR DEVICE

To set up all the necessary functions you can use the following barcode menus.

Using these barcodes, you should enter in program mode, scan the required command symbol then exit from program mode.

The general procedure is the following:
-1) Scan the command symbol "PROGRAM"
-2) Scan one or more parameters
-3) Scan the command symbol "END"

(note)
Code 2/5 symbologies have an unchecked reading mode, so that, you could set a fixed code length to avoid any reading errors.
Following is the correct procedure:
-1) Scan the command symbol "PROGRAM"
-2) Scan the command symbol "FIXED LENGTH"
-3) Scan the command symbol "END"

The first two scanned barcodes 2/5 will be stored as fixed length values.

The following procedure will reset the above selection:
-1) Scan the command symbol "PROGRAM"
-2) Scan the command symbol "FIXED LENGTH OFF"
-3) Scan the command symbol "END"

COMPLEX DEVICE SETTINGS

Set MIN/MAX barcode lengt:
-1) Scan the command symbol "PROGRAM"
-2) Scan the symbol "SET MAX&MIN"
-3) Scan barcode symbology (i2/5, 39,… etc…)
-4) Scan the symbol "MM" or "NN" (max or min)
-5) Scan 2 digits from the ASCII table
-6) Scan the symbol "SET MAX&MIN"
-7) Scan the command symbol "END"

Set PREAMBLE/POSTAMBLE
-1) Scan the command symbol "PROGRAM"
-2) Scan the symbol "PREAMBLE/POSTAMBLE"
-3) Scan up to 16 characters from the ASCII table
-4) Scan the symbol "PREAMBLE/POSTAMBLE"
-5) Scan the command symbol "END"

Set RS-232 to KEYBOARD WEDGE
-1) Scan the command symbol "PROGRAM"
-2) Scan the symbol "RS-232 TO KB WEDGE"
-3) Scan the RS-232 parameters (bps, data, parity,…)
-4) Scan the RX modes
-a) COUNTER ENABLE(wait for a fixed number of characters to convert the received message)
-b) CODE ENABLE(wait for an ASCII character as record terminator to convert the received message)
-5a) Scan the command symbol "COUNTER SET", scan 3 digits from the ASCII table then scan once more the command symbol "CODE SET"
-5b) Scan the command symbol "CODE SET", scan the characters you whant to set as RX message terminator from the ASCII table, then scan once more the command symbol "CODE SET".
-6) Scan the command symbol "END"

COMPATIBLE PRODUCTS:

This manual could be used to setup the decoder section of the following EIA products:

- *EIA-50*

- *EIA-55 (all ver.)*

- *EIA-60 (all ver.)*

- *EIA-STRIKE (all ver.)*

- *EIA-800 CCD*

- *EIA-810 CCD*

- *EIA-FORCE CCD*

- *EIA-60RF (all ver.)*

- *EIA-EAGLE-RF*

- *EIA-FLS-50L*

- *EIA-60M*

- *EIA-STRIKE-M*

- *EIA-M32K (all ver.)*

- *EIA-SOLARIS*

- *EIA-LIGHT*

- *EIA-BLUESTRIKE*

PROGRAM

DEFAULT
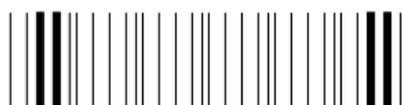
END

VER. CODE DISABLE

VER. CODE ENABLE

KEYBOARD WEDGE*

PC/AT

PS/2

RS-232 SERIAL
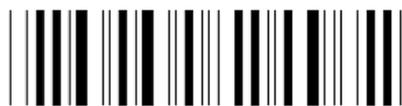
RS-232 TO KB-WEDGE

WAND EMULATION

OCIA
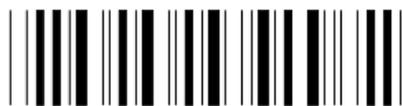
TX Wand Emulation as Code-39
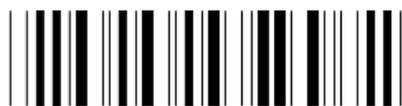
TX *Wand Emulation as as EAN. Scan this code then scan 1,2 or 3 from the ASCII table to indicate the mode you whant to use: AUTO, EAN-8 or EAN-13 then scan this code once more.*

CODE-39 DISABLE

CODE-39 ENABLE*

FULL ASCII CODE-39*

STANDARD CODE-39

CODE-128 DISABLE

CODE-128 ENABLE

CODE-93 DISABLE

CODE-93 ENABLE

CODE-32 ENABLE

CODE-32 DISABLE

ISBN DISABLE

ISBN ENABLE

Symbology Setting (I 2/5)

|||| |||| |||| |||| |||| ||| ||| *I 2/5 DISABLE*

|||| |||| |||| |||| ||| ||| ||| *I 2/5 ENABLE**

|||| |||| |||| |||| ||| ||| ||| *FIXED LENGTH ON**

|||| |||| |||| |||| ||| ||| ||| *FIXED LENGTH OFF*

|||| |||| |||| |||| ||| ||| ||| *1ˢᵗ DIGIT SUPPRESS*

|||| |||| |||| |||| ||| ||| ||| *LAST DIGIT SUPPRESS*

|||| |||| |||| |||| ||| ||| ||| *NO DIGIT SUPPRESS**

Symbology Setting (CODE 128)

||||| |||| ||||| ||| || ||| **EAN-128 DISABLE***

||||| |||| ||||| ||| || ||| **EAN-128 ENABLE**

||||| |||| ||||| ||| || ||| **EAN-128 SEPAR. SET**

||||| |||| ||||| ||| || ||| **CHECK DIGIT DISABLE**

||||| |||| ||||| ||| || ||| **CHECK DIGIT ENABLE***

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Symbology Setting (S 2/5)

||||||||||||||||||||||||||| S 2/5 DISABLE

||||||||||||||||||||||||||| S 2/5 ENABLE*

||||||||||||||||||||||||||| FIXED LENGTH ON*

||||||||||||||||||||||||||| FIXED LENGTH OFF

||||||||||||||||||||||||||| ADD CHK-DIGIT

||||||||||||||||||||||||||| VERIFY CHK-DIGIT

||||||||||||||||||||||||||| DON'T ADD CHK-DIGIT

11

Symbology Setting (UPC-A)

||||| ||| ||||| ||| || ||| *UPC-A DISABLE*

||||| ||| ||||| ||| || ||| *UPC-A ENABLE**

||||| ||| ||||| ||| || ||| *LEADING DIGIT SEND**

||||| ||| ||||| ||| || ||| *LDNG. DIGIT NOT SENT*

||||| ||| ||||| ||| || ||| *ADD CHK-DIGIT**

||||| ||| ||||| ||| || ||| *DON'T ADD CHK-DIGIT*

12

Symbology Setting (UPC-E)

||||| ||| ||||| ||||| || ||| *UPC-E DISABLE*

||||| ||| ||||| ||||| || ||| *UPC-E ENABLE**

||||| ||| ||||| ||| || ||| *LEADING DIGIT SEND**

||||| ||| ||||| ||| || ||| *LDNG. DIGIT NOT SENT*
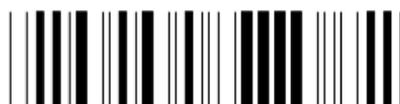
||||| ||| ||||| ||| || ||| *ADD CHK-DIGIT**

||||| ||| ||||| ||| || ||| *DON'T ADD CHK-DIGIT*

||||| ||| ||||| ||| || ||| *ZERO EXP. ENABLE*

||||| ||| ||||| ||| || ||| *ZERO EXP. DISABLE**

Symbology Setting (EAN-8)

|||| |||| ||||| |||||| | ||| **EAN-8 DISABLE**

|||| |||| ||||| |||||| ||| **EAN-8 ENABLE***

|||| |||| ||||| |||||| | ||| **LEADING DIGIT SEND***

|||| |||| ||||| |||||| ||| **LDNG. DIGIT NOT SENT**

|||| |||| |||| |||| ||| ||| **ADD CHK-DIGIT***

|||| |||| |||| ||| ||| ||| **DON'T ADD CHK-DIGIT**

Symbology Setting (EAN-13)

||||||||||||||||||||||||||| **EAN-13 DISABLE**

||||||||||||||||||||||||||| **EAN-13 ENABLE***

||||||||||||||||||||||||||| **LEADING DIGIT SEND***

||||||||||||||||||||||||||| **LDNG. DIGIT NOT SENT**

||||||||||||||||||||||||||| **ADD CHK-DIGIT***

||||||||||||||||||||||||||| **DON'T ADD CHK-DIGIT**

Symbology Setting (EAN/UPC SUPPLEMENTAL)

||||| ||||| |||||| |||| ||| **2 DIGIT SUPPL. DISAB.***

||||| ||||| |||||| |||| ||| **2 DIGIT SUPPL. ENAB.**

||||| ||||| |||||| |||| ||| **5 DIGIT SUPPL. DISAB.***

||||| ||||| |||||| |||| ||| **5 DIGIT SUPPL. ENAB.**

||||| ||||| |||||| |||| ||| **SPACE SEPARATOR ON**

||||| ||||| |||||| |||| ||| **SPACE SEPAR. OFF**

||||| ||||| |||||| |||| ||| **TRANSMIT IF PRESENT**

||||| ||||| |||||| |||| ||| **MUST BE PRESENT**

Symbology Setting (CODABAR)

|||||| ||||| ||||| ||||| ||| ||| **CODABAR DISABLE**

|||||| |||| ||||| ||||| ||| ||| **CODABAR ENABLE***

|||||| |||| ||||| ||||| ||| ||| **START/STOP SEND***

|||||| |||| ||||| ||||| ||| ||| **START/STOP NOT SENT**

Symbology Setting (MSI)

|||||| ||| ||| ||||| || ||| *MSI DISABLE*

|||||| ||| ||| ||||| || ||| *MSI ENABLE**

|||||| ||| ||| ||||| ||| ||| *DOUBLE MOD 10*

|||||| ||| ||| ||||| ||| ||| *MOD 11 PLUS MOD 10*

|||||| ||| ||| ||||| ||| ||| *SINGLE MOD 10*

|||||| ||| ||| ||||| || ||| *SEND*

|||||| ||| ||| ||||| || ||| *NOT SENT**

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Symbology Setting (CODE-11)

||||||||||||||||||||||| **CODE-11 DISABLE**

||||||||||||||||||||||| **CODE-11 ENABLE***

||||||||||||||||||||||| **ONE CHECK DIGITS**

||||||||||||||||||||||| **TWO CHECK DIGITS**

||||||||||||||||||||||| **SEND**

||||||||||||||||||||||| **NOT SENT***

```
|||| ||| |||| |||| ||| |||
```
300

```
|||| ||| |||| |||| || |||
```
1200

```
|||| ||| |||| |||| || |||
```
2400

```
|||| ||| |||| |||| || |||
```
4800

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|||| ||| |||| |||| || |||
```
9600

```
|||| ||| |||| |||| || |||
```
19200*

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|||| ||| |||| |||| || |||
```
38400

Parity

||||||||||||||||||||||||||||||| **EVEN**

||||||||||||||||||||||||||||||| **ODD**

||||||||||||||||||||||||||||||| **MARK**

||||||||||||||||||||||||||||||| **SPACE**

||||||||||||||||||||||||||||||| **NONE**

Data Bits

||||||||||||||||||||||||||||||| **7 BITS***

||||||||||||||||||||||||||||||| **8 BITS***

ACK/NACK protocol

||||||||||||||||||||||||||||||| **OFF***

||||||||||||||||||||||||||||||| **ON**

RS-232 additional parameters

||||||||||||||||||||||||||| CTS/RTS DISABLE*

||||||||||||||||||||||||||| CTS/RTS ENABLE

||||||||||||||||||||||||||| RS-485 ENABLE

||||||||||||||||||||||||||| RS-485 DISABLE*

||||||||||||||||||||||||||| LRC ENABLE

||||||||||||||||||||||||||| LRC DISABLE*

COUNTER ENABLE*

COUNTER SET
(01/99 DEFAULT-15)

CODE ENABLE

CODE SET
(ASCII CODE 01/7F)

TERMINATOR PASS

TERMINATOR CUT

DATA FORMAT
Terminators

ENTER (CR+LF)*

FIELD-EXIT (CR)

RETURN (LF)

NONE

Code-ID

||||| ||| ||||| ||||| || ||| NONE*

||||| ||| ||||| ||||| || ||| USER DEFINED

||||| ||| ||||| ||||| || ||| DEFAULT

Data Length

||||| ||| ||||| ||||| || ||| EXCLUDE*

||||| ||| ||||| ||||| || ||| INCLUDE

Preamble / Postamble

||||| ||| ||||| ||||| || ||| PREAMBLE

||||| ||| ||||| ||||| || ||| POSTAMBLE

Define Code-ID

‖‖‖ ‖‖ ‖‖ ‖‖‖ ‖‖	**DEFINE CODE-ID**
‖‖‖ ‖‖ ‖‖‖ ‖‖ ‖‖	**CODE-39 FULL ASCII**
‖‖‖ ‖‖ ‖‖‖ ‖‖ ‖‖	**CODE-39 STANDARD**
‖‖‖ ‖‖ ‖‖‖ ‖ ‖‖	**EAN-13**
‖‖‖ ‖‖ ‖‖‖ ‖ ‖‖	**UPC-A**
‖‖‖ ‖‖ ‖‖‖ ‖‖ ‖‖	**EAN-8**
‖‖‖ ‖‖ ‖‖‖ ‖ ‖‖	**UPC-E**
‖‖‖ ‖‖ ‖‖‖ ‖ ‖‖	**I 2/5**

Define Code-ID

||||| ||||| ||||| ||||| ||||| *CODABAR*

||||| ||||| ||||| ||||| ||||| *CODE-128*

||||| ||||| ||||| ||||| ||||| *CODE-93*

||||| ||||| ||||| ||||| ||||| *S 2/5*

||||| ||||| ||||| ||||| ||||| *MSI*

||||| ||||| ||||| ||||| ||||| *CODE-11*

Custom Code Editing

||||| |||| |||| |||| |||| ||| **SET EDIT MODE**

||||| ||| || ||| | **SELECT FROM LEFT**

||||| ||| ||| || **SELECT FROM RIGHT**

Scan SET EDIT MODE, Scan LEFT or RIGHT then scan 2 digits from the ASCII table to select the required length and scan LEFT or RIGHT once more.

||||| ||| |||| ||| ||| ||| **CUSTOM MODE ENAB. (Enable above setting)**

||||| ||| ||| |||| ||| ||| **CUSTOM MODE DISAB.* (Disable above setting)**

||||| ||| |||| ||| || ||| **FULL DATA EDIT DISAB (Disable following setup)**

||||| ||| |||| ||| |||| ||| **FULL DATA EDIT SETUP**

Scan FULL DATA EDIT SETUP then scan 2 digits from the ASCII table to select the start position, scan the "." Character and 2 more digits as the required string length, close this procedure by scanning once more the above barcode.

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|||||||||||||||||||||||||||| *NONE**

|||||||||||||||||||||||||||| *SHORT*

|||||||||||||||||||||||||||| *MEDIUM*

|||||||||||||||||||||||||||| *LONG*

|||||||||||||||||||||||||||| *SCURITY LEVEL*
(Redudancy on decoding)

Scan the above barcode then scan 1, 2, 3 from the ASCII table to select how many attempt the decoder should do before a good reading, then scan thi barcode once more to close this procedure.

Beep Tone on decoding

||||||||||||||||||||||| **NONE**

||||||||||||||||||||||| **LOW**

||||||||||||||||||||||| **MEDIUM***

||||||||||||||||||||||| **HIGH**

Reading mode

||||||||||||||||||||||| **Switch mode***
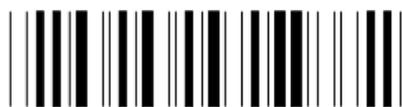
||||||||||||||||||||||| **Flash mode**

||||||||||||||||||||||| **Repeat mode**

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Intercharacter delay

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ *1 ms ***

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ *5 ms*

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ *10 ms*

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ *20 ms*

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ *50 ms*

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ *100 ms*

Intermessage delay

|||||||||||||||||||||| **NONE ***

|||||||||||||||||||||| **50 ms**

|||||||||||||||||||||| **200 ms**

|||||||||||||||||||||| **500 ms**

|||||||||||||||||||||| **1 sec**

|||||||||||||||||||||| **2 sec**

Function codes

|||||| ||| |||| |||| ||| ||| **OFF**

|||||| ||| ||||| |||| ||| ||| **ON***

Upper / Lower case

|||||| ||| ||||| |||| ||| ||| **LOWER CASE**

|||||| ||| ||||| ||| ||| ||| **UPPER CASE***

Num-lock emulation

|||||| ||| ||||| || ||| ||| **OFF***

|||||| ||| ||||| || ||| ||| **ON**

Keyboard language

||||| |||| |||| ||| ||| *USA**

||||| |||| |||| ||| ||| *U.K.*

||||| |||| |||| ||| ||| *SWISS*
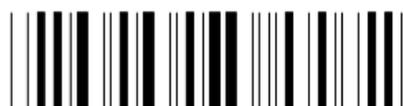
||||| |||| |||| ||| ||| *SWEDISH*

||||| |||| |||| ||| ||| *SPANISH*

||||| |||| |||| ||| ||| *NORWEGIAN*

||||| |||| |||| ||| ||| *ITALIAN*

||||| |||| |||| ||| ||| *GERMAN*

||||| |||| |||| ||| ||| *FRENCH*

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SET MAX&MIN

CODE-39 (1-64)

I 2/5 (4-64)

S 2/5 (4-64)

CODE-128 (4-64)

MSI (4-16)

CODE-93 (4-64)

CODE-11 (4-64)

CODABAR (4-64)

MAX (MM)

MIN (NN)

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ASCII TABLE

‖‖‖ ‖‖‖‖ ‖‖ 5	‖‖‖‖ ‖ ‖‖ ‖‖ @
‖‖‖‖ ‖ ‖ ‖‖ 6	‖‖‖‖ ‖ ‖ ‖‖‖ A
‖‖‖ ‖‖ ‖ ‖‖ 7	‖‖‖‖ ‖ ‖ ‖‖ B
‖‖‖ ‖ ‖ ‖‖ 8	‖‖‖ ‖‖ ‖ ‖‖ C
‖‖‖ ‖ ‖ ‖‖‖ 9	‖‖‖‖ ‖‖ ‖ ‖‖ D
‖‖‖‖ ‖ ‖ ‖‖ :	‖‖‖‖ ‖ ‖ ‖‖‖ E
‖‖‖‖ ‖ ‖ ‖‖‖ ;	‖‖‖‖ ‖ ‖ ‖‖‖ F
‖‖‖‖ ‖ ‖‖ ‖‖ <	‖‖‖ ‖‖ ‖ ‖‖‖ G
‖‖‖‖ ‖ ‖ ‖‖ =	‖‖‖‖ ‖ ‖ ‖‖‖ H
‖‖‖‖ ‖ ‖ ‖‖‖ >	‖‖‖‖ ‖ ‖ ‖‖‖ I
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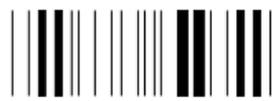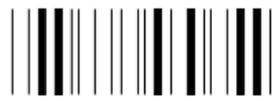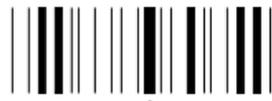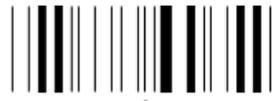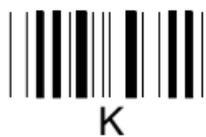
ASCII TABLE

a

b

c

d

e

f

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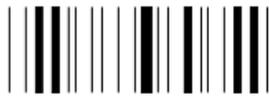
h
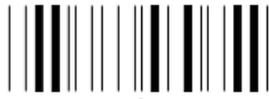
i

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ASCII TABLE

‖‖‖‖ ‖‖‖ ‖‖ ‖‖‖ w	‖‖‖‖ ‖ ‖‖ ‖‖‖ STX
‖‖‖‖ ‖ ‖ ‖‖ ‖‖‖ x	‖‖‖‖ ‖ ‖‖ ‖‖‖ ETX
‖‖‖‖ ‖ ‖ ‖‖ ‖‖‖ y	‖‖‖‖ ‖ ‖‖ ‖‖‖ EOT
‖‖‖‖ ‖ ‖ ‖‖ ‖‖‖ z	‖‖‖‖ ‖ ‖‖ ‖‖‖ ENQ
‖‖‖‖ ‖ ‖ ‖‖ ‖‖‖ {	‖‖‖‖ ‖ ‖‖ ‖‖‖ ACK
‖‖‖‖ ‖ ‖ ‖‖ ‖‖‖ |	‖‖‖‖ ‖ ‖‖ ‖‖‖ BEL
‖‖‖‖ ‖ ‖ ‖‖ ‖‖‖ }	‖‖‖‖ ‖ ‖‖ ‖‖‖ BS
‖‖‖‖ ‖ ‖ ‖‖ ‖‖‖ ~	‖‖‖‖ ‖ ‖‖ ‖‖‖ HT
‖‖‖‖ ‖ ‖ ‖‖ ‖‖‖ DEL	‖‖‖‖ ‖ ‖‖ ‖‖‖ LF
‖‖‖‖ ‖ ‖ ‖‖ ‖‖‖ NUL	‖‖‖‖ ‖ ‖‖ ‖‖‖ VT
‖‖‖‖ ‖ ‖ ‖‖ ‖‖‖ SOH	‖‖‖‖ ‖ ‖‖ ‖‖‖ FF

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ASCII TABLE

CR

CAN

SO

EM

SI

SUB

DLE

ESC

DC1

FS

DC2

GS

DC3

RS

DC4

US

NAK

SP

SYN

ETB

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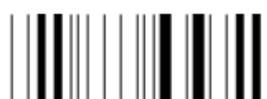
ASCII TABLE

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
F1

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
F2

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F3

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F4

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F5

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F6

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F7

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F8

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F9

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F10

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F11

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
F12

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
HOME

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END

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CURSOR RIGHT

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
CURSOR LEFT

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
CURSOR UP

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
CURSOR DOWN

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
PAGE UP

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
PAGE DOWN

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
TAB

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
BACK TAB

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
ESC

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
ENTER

‖‖‖‖ ‖ ‖‖‖ ‖‖‖
RIGHT CTRL

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(for BlueStrike model only)

Always read "Program" before enter the following parameters.

Read "End" when ALL your selections are terminated

 PROGRAM

RESET DEFAULT RADIO PARAMETERS

- ***PIN = 11111111***
- ***Peer Address = ff:ff:ff:ff:ff:ff***
- ***Role= Slave***
- ***Protocol = not used***
- ***Data retry times=6 times (only with protocol)***
- ***SPP Param = 19200,N,8,1***
- ***Discovareble=Yes***
- ***Device Name = EIA BARCODE 00***
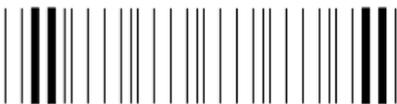
 END

Set PIN CODE by Digits

||||||||||||||||||||||

Scan this barcode then scan **8** valid digits from the ascii table then scan once more this barcode to close the PIN CODE programming

Set PEER ADDRESS by Digits

||||||||||||||||||||||

Scan this barcode then scan **12** valid digits from the ascii table then scan once more this barcode to close the PEER ADDRESS programming

Set Role as MASTER

||||||||||||||||||||||

Scan this barcode to set the scanner as **MASTER**

Note : in this way the Scanner is not discoverable by USB dongles and try to reconnect automatically his own Peer address using the same PIN code.

Set Role as SLAVE

||||||||||||||||||||||

Scan this barcode to set the scanner as **SLAVE**

Note : in this way it can be connected by any USB dongle but if the Peeraddress remain ff:ff:ff:ff:ff:ff it will always ask for PIN code al the times he reconnect.
Set the Dongle Peer address to avoid further PIN requests after the first pairing

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Set PEER ADDRESS by single Barcode

Scan this barcode then scan a single barcode of 12 valid digits indicating the Peer address

Set PIN CODE by single Barcode

Scan this barcode then scan a single barcode of 8 valid digits indicating the PIN CODE

Set 2 Ways Protocol enabled

Scan this barcode to select the 2 ways protocol

Note : In this way, the scanner transmit (the retry times programmed) and wait for a host feedback. Once received, an additional good-feedback BEEP will be emitted indicating the barcode is correctly received from host. In case the host don't acknowledge, an error-BEEP is emitted indicating that barcode couldn't be received.

IN THE CD THERE IS A SOFTWARE THAT USE THIS SECURE PROTOCOL AND TRANSFORM DATA RECEIVED IN KEYBOARD WEDGE OUTPUT

Set 2 Ways Protocol Disabled

Scan this barcode to disable the 2 ways protocol

Note : In this way, the scanner just transmit the captured barcode and don't wait a host acknowledgement.

IN THE CD THERE IS A SOFTWARE THAT CAN TRANSFORM DATA RECEIVED IN KEYBOARD WEDGE OUTPUT
Using this software without protocol set on the scanner, remember to uncheck the related RADIO-ACK options on the software setting.

Set Data Retry times (works with protocol only)

Scan this barcode then scan **2** valid digits from the ascii table to compose how many retransmissions then scanner will perform (up to 255) in case the host ack is not received, then scan once more this barcode to close the programming

Set DEVICE NAME

Scan this barcode then scan **2** valid digits from the ascii table then scan once more this barcode to close the programming.

Device name will be EIA BARCODEXX where XX are the 2 digits set by user.

BLUETOOTH WORKING MODES

EIA BlueStrike can be connected by USB Bluetooth dongles, EIA RS232 dongle or any other device having Serial Port Profile with ascii protocol.

It can work in 4 different modes.

- Slave without 2 ways Protocol
- Slave with 2 ways Protocol
- Master without 2 ways Protocol
- Master with 2 ways Protocol

In MASTER mode BlueStrike will try to automatically reconnect his slave device, so be sure to setup the remote device MAC ADDRESS like local PEER ADDRESS, as well the BlueStrike PIN CODE should be set to match the remote device PIN CODE.
If a pairing is created in this way, the connection will be automatically created all the time the Bluestrike powerON after a power-down.
In MASTER mode the BlueStrike is NOT DISCOVERABLE by other bluetooth devices.

In SLAVE mode the BlueStrike is DISCOVERABLE and wait for a connection from a MASTER device.
Normally the connection is terminated once the BlueStrike power-down after 3 minutes of inactivity.
If the remote device can act as MASTER (like EIA RS232 receiver) it should be able to automatically reconnect the Scanner that was paired, as soon as it power-on again.

Not all USB dongles have this automatic connection feature, so in that case you should set the BlueStrike as MASTER.

To be sure that BlueStrike will be paired without asking all the time the PIN CODE, the USB dongle (or other MASTER device) MAC ADDRESS should be set like local PEER ADDRESS.

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Default PEER ADDRESS in BlueStrike is ff:ff:ff:ff:ff:ff, this allow a connection, but in this situation the PIN CODE will be required all the time and a automatic pairing will be impossible.

If the PEER ADDRESS is different from ff:ff:ff:ff:ff:ff (or even better, the MASTER device MAC ADDRESS) the BlueStrike will not allow to be connected.

<u>In 2 WAYS PROTOCOL</u> mode, the strike will transmit the captured barcode string, up to the RETRY TIMES number set, untill an ACK answer is received from host.

This allow the user to move safely many meters far from the PC (Blue Strke can communicate to CLASS 1 dongles up to 100 meters) being sure that bluetooth connection is still active and the barcode transmitted is correctly received from the host.

Blue Strike read a barcode, it transmit to host, wait for the host ACK, and once received, play additional 2 Beep to indicate a GOOD-FEEDBACK.
If the Host don't ACKnowledge the BlueStrike retry up to the times setup, then give an error message by 4 Beeps.

While the BlueStrike is RE-transmitting (and waiting for the ACK) the LED flash Green/Red and the Laser is Disabled to prevent any other scans.

Working with Strike in MASTER MODE and PROTOCOL also indicate (with a good feedback BEEP) the use once the Bluetooth connection is established, even if the host is many meters far.

To work with protocol, is necessary that host will be able to send back to Scanner by the Virtual-Serial-Port (BT serial port) an ACK string, so a specific software should be written by the user.

To simplify, a software utility is included in the CD-ROM that allow the use of Software in the mean time it convert the barcode received in KEYBOARD_WEDGE strings

This allow the user to receive in higly-safe way (protocol) all barcode scanned in any existing application, like they have been typed on the keyboard… even if they come from USB or RS232 dogles.

Without 2 WAYS PROTOCOL mode, the BlueStrike will transmit the captured barcode string to the host without any control

So the user should take care that Bluetooth connection is active and the program is receiving correctly the scanned barcodes.

The WEDGE software Utility could be used even in this mode to convert string in Keyboard wedge, but all the PROTOCOL options (RADIO ACK) must be disabled.

SLAVE witout 2 WAYS PROTOCOL, this is surely the easyest way to setup the scanner (default) but as well as the most unsecure unless the user will work around the Host area.

We strongly suggest to use CLASS 1 Bluetooth Dongles or EIA RS232 dongle to create connetcions between the BlueStrike and a PC.