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## INTRODUCTION

This scanner apply with Ez one shot easy programming decoder, It is specially designed to deliver high-end bar code reading performance at the lowest possible price. The scanner utilizes exceptional decoding technology. One-time settings are easily made by scanning set-up bar codes in this handy user's manual. This bar code scanner uses CCD or optical diode technology which does not have moving part, provide ragged reliable quality, enables it suit for any harsh environment conditions. Furthermore, the LED illumination light source of scanner provides less harmful beam to human eyes, and more longer product lifetime.

**The Ez One shot decoder are mainly apply to the following categories bar code scanner for your reference:**

1. **Short Range-** The reading distance is about from contact to 100mm,
2. **Mid Range-** The reading distance is about from contact to 180mm,
3. **Long Range -** The reading distance is about from 5mm to 300mm,
4. **Wand or Pen bar code scanner.**
5. **Scan Engine and Fixed Mount scanner .**

Notes: ( Please contact your distributor for the detail model number.)

## GENERAL

This scanner has many settings that can be used to conform the unit to the requirements of a particular application. For most usages, however, the default settings programmed into the unit at the factory are appropriate. It is not recommended that the default settings be changed unless there is a specific need to alter the characteristics of the scanner's performance.



## EZ TROUBLESHOOTING

The scanner is easy to install and use. Many problems encountered can be attributed to a wrong setting that has been programmed into the scanner. Before troubleshooting the problem, try this:

1. Unplug the cable from the host computer.
2. Plug the cable back into the host computer.
3. Reset the scanner settings to DEFAULT (Group 1).



If these steps do not resolve the problem, please refer to the troubleshooting table on the next page. If this fails to correct the problem, please consult the troubleshooting section beginning on page 64~66 for further assistance.

<b>Figure 2</b>			
<b>No</b>	<b>Kind of Troubles</b>	<b>Symptoms</b>	<b>Solutions</b>
1	Computer Type (Group 1)	Scanner seems to be performing as usual, but no data is being output.	<ol style="list-style-type: none"> <li>Unplug the cable from the host computer.</li> <li>Plug the cable back into the host computer.</li> <li>Set the scanner to the exact computer type immediately.</li> </ol>
2	Interfaces Selections (Group 1)	The scanner does not scan when the trigger is depressed.	<ol style="list-style-type: none"> <li>Unplug the cable from the host computer.</li> <li>Plug the cable back into the host computer.</li> <li>Set the scanner to the correct interface. The cable needs to match the interface.</li> </ol>
3	Setting Procedure have not completed (Setting Need Triple Shot scanning) ----- Group - 4, 5, 8, 9, 17, 18, 19, 20, 22, 23, 25, 31	<p>Most settings require only a single bar code, but a few need several different bar codes to be scanned in order to completely define a setting. They are:</p> <ol style="list-style-type: none"> <li>Preamble, Postamble (Group 4) (page 14)</li> <li>Accuracy Adjustment (Group 5) (page 15)</li> <li>Customer ID Configuration (Groups 8 and 9) (page 18-19)</li> <li>Min/Max Length (Groups 17, 18, 19, 20, 21, 22, 25)</li> <li>ABC Codabar (Groups 22)</li> <li>CX-Codabar (Groups 22 and 23)</li> <li>Coupling Codabar (Groups 22 and 23)</li> <li>EAN 128 (Group 31)</li> </ol>	<ol style="list-style-type: none"> <li>Follow the procedures for these settings at the appropriate pages.</li> <li>The scanner will beep three times for an incomplete setting.</li> <li>Scan RESET to try a setting again.</li> </ol>
4	Limitation of length of the bar code	The scanner is reading correctly, except for certain bar codes of a certain length	Reset the Min/Max setting for the bar code symbology affected.
5	RS232 Protocol Communication setting problem	The scanner appears to be working in the RS-232 interface, but no data is output.	Ensure the correct RS-232 communication parameters have been set: Baud Rate, Handshaking, Stop Bits, Data Bits, and Parity. These settings must be the same for both the scanner and the host.

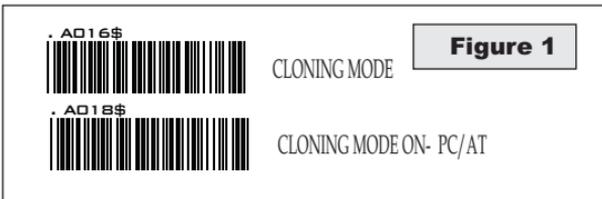
# CLONING MODE

## WHAT IS CLONING MODE?

CLONING duplicates a wand's settings in other wands. It can save time when a number of wands must be programmed to the same settings.

## HOW SHOULD CLONING WORK?

1. Using this guide, make all the necessary settings for one wand.
2. Scan the CLONING MODE bar code shown below.
3. When CLONING MODE is scanned, all setup parameters will be converted to alphanumeric characters and shown on the monitor.
4. Using a bar code printer, print out all the setup parameters as Code 39 bar code labels.
5. Scan the printed labels sequentially with each wand to be programmed.



*.A018\$( Cloning Mode on PC/AT) - you can clone the settings to a PC/AT regardless what kind of device has been chosen on the scanner*

## NOTES:

1. All cloning strings are upper case.
2. All cloning strings printed on labels should be the same as those on the monitor sequentially from first to last.
3. Cloning mode works in Word Note Pad only.
4. Never edit the data on the first row (.A017\$). It is an entry gate for cloning.
5. The cloning string's length can be adjusted by combining multiple strings into one, or by breaking one string to multiple strings starting from the second row after "...". Length must be in sequences of four, such as 4,8,12,16,20 (MAX).
6. Be sure to print the dots exactly where they are shown on the monitor.

## FORMAT OF CLONING

\* Format of Cloning :

- 1st rows >>> ".A017\$" ( never edit any data of the first row )
- 2nd rows >>> "...XXXX" you can adjust the String's Length starting from the dots"...". Length must be in sequences of four, such as 4,8,12,16 or 20 ( MAX )digits.
- 3rd rows~ so on >>> XXXX
- End rows- A dot "." Is an ending of cloning.

XXXX Stand for any String

**EXAMPLE :**

**1. PROJECT ASSIGNMENTS :**

- 1.1. Beep tone: **BEEP LOW -- HIGH** .
- 1.2. Capslock Mode: **CAPSLCK ON ( FIXED )**.
- 1.3. Reading Mode: **CONTINUOUS AUTO OFF**.

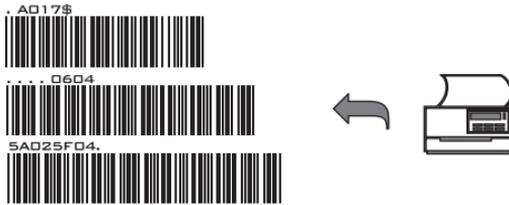
**2. SETTING PROCEDURE:**

- 2.1. Scan **BEEP LOW.--HIGH (GROUP 3)**.(page13)
- 2.2. Scan **CAPSLCK ON (FIXED)**.(GROUP 3).
- 2.3. Scan **CONTINUOUS AUTO OFF. (GROUP2)**.(page12)

3. All parameters will be converted to alphanumeric characters and shown on the monitor.



4. Print the results shown on the monitor as bar codes with a bar code printer. The bar codes should be in the Code 39 symbology.



5. Scan these labels with any of the wands that must be programmed with the same settings as the first wand. Be sure to scan from the first row to the second and so on sequentially, top to bottom.

**CORRECT SETTING**

<pre>.A017\$ .... 0604 5A02 5F04 .</pre>	<pre>.A017\$ ....06045A02 5F04.</pre>
<p>4 4 4 4 .(Dot)</p>	<p>12 4+.(Dot)</p>

**WRONG SETTING**

<pre>.A017\$ .. ..0604 5A02 5F04 .</pre>	<p>← Wrong Setting: The string "...." Consists of 4 Dots, located at the beginning of second rows. Do not break the "...." into multiple string.</p>
<pre>.A017\$ ....06045 A025F04 .</pre>	<p>✓ 9 x } ← Wrong Setting: The string lengths in the second and third rows do not match the length requirements, because rows should be in lengths of four digits. 7 x } .(Dot) ✓</p>
<pre>.A017\$.... 0604 5A02 5F04.</pre>	<p>X ← Wrong Setting Because you add "...." After .A017\$ The 0.A17\$ is a FIXED parameter for setup entering. It is an unchangeable parameter. <b>Never adds, delete or rearrange data from the FIRST row.</b></p>

# GETTING STARTED

## HOW TO CONNECT THE WAND TO THE HOST COMPUTER

### KEYBOARD WEDGE INTERFACE

1. Power down the host computer.
2. Disconnect the keyboard cable from the computer.
3. Connect the "Y" cable between the keyboard and the wand and the computer.
4. Restart the computer.
5. The wand will beep.
- 6 Set the wand to KEYBOARD interface by referring to GROUP 1 (page11) (Interface Selections).
7. Wand will beep to confirm the setting.
8. Scan a bar code to confirm that data shows on the monitor.



### USB INTERFACES

The USB Interface supported is compatible with the Apple MAC series, later PCs and Windows 98, 2000, Me, and XP.

1. Connect the USB cable between the scanner and the computer.
2. The scanner will beep.
3. The Scanner will detect the USB driver automatically. (The first time the scanner is connected via the USB port, follow the appropriate instructions for the host computer.)
4. Set the scanner to KEYBOARD/USB interface by referring to GROUP 1 (page11) (Interface Selections).
5. Scanner will beep to confirm the setting.
6. Scan a bar code to confirm that data shows on the monitor.



## RS-232 INTERFACE

1. Power down the host computer.
2. Connect the RS-232 cable between the wand and the computer.
3. Connect the power adaptor to the cable.
4. Restart the computer.
5. Plug the power adaptor into a power outlet.
6. The wand will beep.
7. Set the wand to RS-232 interface by referring to GROUP 1 (page11) (Interface Selection).
8. Set RS-232 protocol: Baud Rate, Stop Bits, Handshaking, Data Bits, and Parity.
9. Scan a bar code to confirm that data shows on the monitor.



Check the power adaptor to ensure:

1. Input of AC current 110V/ 220V matches the power supply standard of the country in which the scanner is being used.
2. Adapter output is +5V DC
3. The jack input is +5V DC



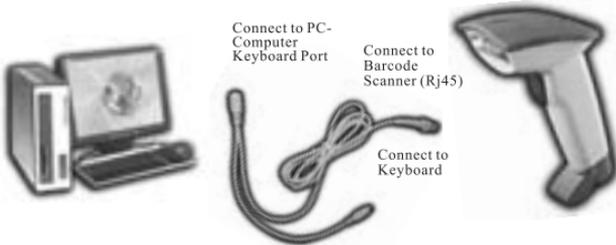
### NOTES:

1. Before plugging the power adaptor into the wand, be sure the voltage, power consumption, and inner and outer DC characteristics are correct to avoid serious damage to the wand and/or the computer.
2. Make sure the protocol communication settings of the wand (such as baud rate, data bits, etc.) match those of the host computer. Otherwise, no data will be transmitted..

## HOW TO CONNECT THE SCANNER TO THE HOST TERMINAL: Handheld Barcode Scanner

### KEYBOARD WEDGE INTERFACE

1. Power down the host computer.
2. Disconnect the keyboard cable from the computer.
3. Connect the "Y" cable between the keyboard and the scanner and the computer.
4. Restart the computer.
5. The scanner will beep.
6. Set the scanner to KEYBOARD interface by referring to GROUP 1 (page11) (Interface Selections).
7. Scanner will beep to confirm the setting.
8. Scan a bar code to confirm that data shows on the monitor.

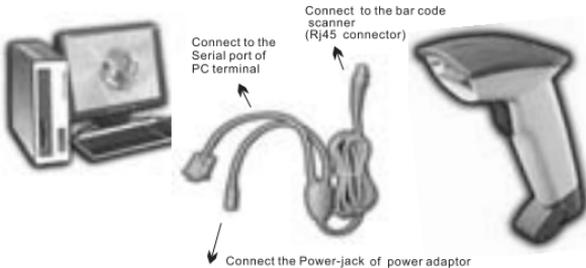


### RS-232 INTERFACE

1. Power down the host computer.
2. Connect the RS-232 cable between the scanner and the computer.
3. Connect the power adaptor to the cable.
4. Restart the computer.
5. Plug the power adaptor into a power outlet.
6. The scanner will beep.
7. Set the scanner to RS-232 interface by referring to GROUP 1 (page 11) (Interface Selection).
8. Set RS-232 protocol: Baud Rate, Stop Bits, Handshaking, Data Bits, and Parity.
9. Scan a bar code to confirm that data shows on the monitor.

#### NOTES:

1. Before plugging the power adaptor into the scanner, be sure the voltage, power consumption, and inner and outer DC characteristics are correct to avoid serious damage to the scanner and/or the computer.
2. Make sure the protocol communication settings of the scanner (such as baud rate, data bits, etc.) match those of the host computer. Otherwise, no data will be transmitted..



Check the power adaptor to ensure:

1. Input of AC current 110V/ 220V matches the power supply standard of the country in which the scanner is being used.
2. Adapter output is +5V DC
3. The jack input is +5V DC



## USB INTERFACES

The USB Interface supported is compatible with the Apple MAC series, later PCs and Windows 98, 2000, Me, and XP.

1. Connect the USB cable between the scanner and the computer.
2. The scanner will beep.
3. The Scanner will detect the USB driver automatically. (The first time the scanner is connected via the USB port, follow the appropriate instructions for the host computer.)
4. Set the scanner to KEYBOARD/USB interface by referring to GROUP-1 (Interface Selections).
5. Scanner will beep to confirm the setting.
6. Scan a bar code to confirm that data shows on the monitor.

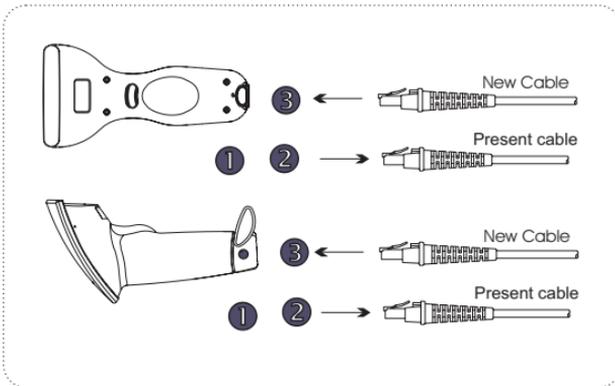


## HOW TO CHANGE A CABLE

The CCD scanner are designed to switch easily between interface options. To switch from one interface to another, the appropriate cable must be installed. To change a cable, simply follow these steps:

1. To release the cable, insert a pin or straightened paper clip into the hole at the base of the scanner where the cable is connected.
2. Remove the cable from the scanner.
3. Plug in the new cable.

After changing to a new cable, be sure to reset the interface setting as appropriate (including parameter settings for the RS-232 interface).



## HOW TO SET PARAMETERS

How do you program a scanner with this user's guide?

1. Use the scanner to scan at the bar code representing the function/parameter you want to set.
2. When you hear two beeps, the new setting will have been defined or updated into the memory processor.

Default parameters are indicated in bold type and underlined characters. The character font is ARIAL BLACK. CD = Check Digit. CDV = Check Digit Verification.

Most settings require only a single bar code, but a few need several different bar codes to be scanned in order to completely define a setting. They are:



### SETTING BAR CODE

#### **Preamble / Postamble (maximum 16 digits)**

- Step 1: Scan CLR PRE/POSTAMBLE.
- Step 2: Scan PREAMBLE or POSTAMBLE..
- Step 3: Scan any alphanumeric from Full ASCII Table in Groups 34 - 45. (page52-63)
- Step 4: Scan PREAMBLE or POSTAMBLE.

#### **Min Length / Max Length**

- Step 1: Scan MIN LENGTH or MAX LENGTH.
- Step 2: Scan two digits from Group 42 (page60)
- Step 3: Scan MIN LENGTH or MAX LENGTH.

#### **Accuracy Adjustment**

- Step 1: Scan ACCURACY ADJUSTMENT.
- Step 2: Scan one digit from Group 42 (page60)
- Step 3: Scan ACCURACY ADJUSTMENT.

#### **Customer Configuration ID ( Example: Code 39 )**

- Step 1: Scan CODE 39 SET ID from Group 8. (page18)
- Step 2: Scan either one digits or two digits alphanumeric (maximum 2 digits) from Full ASCII table In Groups 34 - 45. (page52-63)
- Step 3: Scan CODE 39 SET ID from Group 8. (page18)

#### **Set A Data - ( CX-Codabar, ABC Codabar, Codabar Coupling).**

- Step 1: Scan SET A DATA.
- Step 2: Scan one digits any alphanumeric character from Full ASCII Table in Groups 34 - 45. (page52-63)
- Step 3: Scan SET A DATA.

#### **NOTES:**

1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., scan CLEAR to start again.

**RESET**



# GROUP-1

INTERFACES SELECTION, COMPUTER TYPE, DEFAULT, SCAN SPEED.

## DEFAULT



## COMPUTER TYPE



SYMPTOMS	SOLUTION
Scanner seems to be performing as usual, but no data is being output.	<ol style="list-style-type: none"> <li>1. Unplug the cable from the host computer.</li> <li>2. Plug the cable back into the host computer.</li> <li>3. Set the scanner to the exact computer type immediately.</li> </ol>

**Caution:** Please ensure the correct computer type is set when the scanner is attached to a new host computer. If set to Notebook, the scanner will operate with no external keyboard.



## INTERFACES SELECTION



SYMPTOM	SOLUTION
The wand does not scan/ The scanner does not scan when the trigger is depressed.	<ol style="list-style-type: none"> <li>1. Unplug the cable from the host computer.</li> <li>2. Plug the cable back into the host computer.</li> <li>3. Set the wand to the correct interface. The cable needs to match the interface.</li> </ol>

**Caution:** This scanner is designed to switch easily between interface options. To switch from one interface to another, the appropriate cable must be installed. After changing to a new cable, be sure to reset the interface setting as appropriate.

## SCAN SPEED



\* For AMIC Modle

# GROUP-2

## READING MODE SETTING

---



- \* LED is always on. ,
- \* The trigger does not function in Continuous Mode.



- \*The LED is on steadily if a bar code is close to the scanner, but starts to flash if no bar code has been detected after 60 seconds.
- \*The trigger does not function in Flash Mode.



- \* The LED will light when the trigger is pressed.
- \* The LED will go off when the trigger is released.



- \* The LED is always on when the trigger is pressed .
- \* The LED will go off if no bar code has been detected after 60 seconds.



- \* This function works like Trigger Mode, but the scanner beeps to indicate a good read.



- \* If Auto-Sensing (Triggerless) Mode is on, the LED will go off if the scanner does not detect a bar code.
- \* The LED lights automatically when a bar code is detected.



- \* If Ultraviolet Mode is on, the ultraviolet light source will light and stay on continuously.
- \* The ultraviolet light will go off when the trigger is pressed, and back on when the trigger is released.



- \* Factory Test Scanning

### NOTES:

1. To extend the scanner's life, keep the scanner set to Trigger Mode or Continuous Auto Off Mode.
2. Only certain models support Auto Sensing or Ultraviolet Modes.
3. For convenience, print the bar code for Ultraviolet Mode and keep it near the work station for easy scanning when needed.
4. In Ultraviolet Mode, press the trigger button and the reading mode will swift from Ultraviolet Mode to the reading mode the scanner was last in.
5. The LED will glow RED for STANDBY and GREEN for GOOD READ.
6. The Trigger Mode is available for most handheld bar code scanner, but The trigger is only available to wands with a switch capability.

# GROUP-3

CHECK VERSION, BEEP TONE , TERMINATOR SEND DATA LENGTH

## BEEP TONE MODE

2.1KHz



BEEP HIGH



BEEP HIGH--LOW



### BEEP MEDIUM



BEEP LOW--HIGH



BEEP LOW

2.7KHz



OFF



BEEP HIGH



BEEP HIGH--LOW



### BEEP MEDIUM



BEEP LOW--HIGH



BEEP LOW

## CHECK VERSION



CHECK VERSION

## TERMINATOR



NONE



LF



**CR**



**CR+LF**



TAB



SPACE



ESC

### NOTES:

1. For the Keyboard Wedge interface the default terminator is CR.
2. For the USB interfaces the default terminator is CR,
3. For the RS232 interfaces the default terminator is CR+LF

## SEND DATA LENGTH



SEND DATA LENGTH ON



SEND DATA LENGTH OFF

# GROUP-4

SETUP CODE READ, PREAMBLE & POSTAMBLE.

---

## SETUP CODE READ

.B015\$



SETUP CODE ON

.B016\$



SETUP CODE OFF \* 1

## NOTE :

- \* 1 This setting is disable to all User's Manual Code setting. To use bar code setting, Scan Setup Code On enable bar code setting.
- 

## PREAMBLE & POSTAMBLE ( PREFIX AND SUFFIX )

.A011\$



CLEAR PRE/ POSTAMBLE

.A012\$



PREAMBLE (16)

.A013\$



POSTAMBLE (16)

## EXAMPLE:

Set PREAMBLE String as "##"  
POSTAMBLE String as "\$\$"

## SETTING PROCEDURE:

- STEP 1 : Scan : CLEAR PRE/ POSTAMBLE.
- STEP 2 : Scan : PREAMBLE.
- STEP 3 : Scan : "# " twice from FULL ASCII Table.
- STEP 4 : Scan : PREAMBLE.
- STEP 5 : Scan : POSTAMBLE.
- STEP 6 : Scan : "\$ " twice From FULL ASCII Table.
- STEP 7 : Scan : POSTAMBLE.

## FORMAT:

{ Preamble}{CodeID}{Bar Code}{Postamble}

## NOTES:

- 1. A PREAMBLE is a string of up to 16 characters added to the beginning of a scanned barcode.
- 2. A POSTAMBLE is a string of up to 16 characters added to the end of a scanned bar code.
- 3. Default value for either: None.

# GROUP-5

## ACCURACY ADJUSTMENT

---



---

**ACCURACY  
ADJUSTMENT**



Accuracy Adjustment assures a more reliable decoded output. Enabling the feature and setting a number from 1 to 9 subjects the decoded output a higher standard of accuracy. The higher the number, the greater the accuracy.

---

### SETTING PROCEDURE:

1. Scan **ACCURACY ADJUSTMENT**.
2. Scan one digit ( 1~9) from barcode menu above.
3. Scan **ACCURACY ADJUSTMENT**.

**RESET**



### NOTES:

1. The scanner will beep three times as reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., scan **RESET** to start again.

# GROUP-6

## LABEL TYPE POSITIVE / NEGATIVE, ENABLE AND DISABLE CODE ID

### LABEL TYPE POSITIVE / NEGATIVE

.D021\$



DISABLE NEGATIVE LABEL  
(POSITIVE LABEL ENABLE)

.D022\$



ENABLE NEGATIVE LABEL  
(POSITIVE & NEGATIVE ENABLE)

### ENABLE CODE ID

.A008\$



FACTORY ID ON

.A014\$



AIM ID ON

.A015\$



SET ID -ON

### DISABLE CODE ID

.A009\$



### NOTES:

1. Only ONE code ID will be sent.
2. The code ID is located at the position before the bar code data and after the preamble.

### EXAMPLE :

- 1.Preamble 145287,
- 2.Code ID: enable AIM ID,
- 3.Bar code symbologies : EAN 13+5

145287	JE0	4563987123453	12411
Preamble 145287	CODE ID AIM ID : JE0	BARCODE / DATA EAN 13 +5	
OUTPUT : 145287]E0456398712345312411			

# GROUP-7

## SYBLOGIES CODE ID IDENTIFIER, SET ID

SYBLOGIES CODE ID IDENTIFIER					
Symbologies	Factory ID	AIM ID (new)	Symbologies	Factory ID	AIM ID (new)
MSI	O	JM0	EAN 128	T	JC1
MSI(MOD 10 / CDV & not send CD)		JM1	Code 128	K	JC0
EAN8(+2/+5 OFF)	S	JE4	Code 32	B	JX0
EAN8(+2 ON)		JE4	Codabar	N	JF0
EAN8(+5 ON)	JE4	Codabar(ABC Codabar)	JF1		
UPC-E(+2/+5 OFF)	E	JE0	Codabar(CDV & Send CD)	D	JF2
UPC-E(+2 ON)		JE3	Codabar(CDV & not send CD)		JF4
UPC-E(+5 ON)		JE3	UK Plessey		JP0
UPC-A(+2/+5 OFF)	A	JE0	Matrix 2 of 5	Y	JX0
UPC-A(+2 ON)		JE3	Full ASCII Code 39(disable CDV)	D	JA4
UPC-A(+5 ON)		JE3	Full ASCII Code 39(CDV & send CD)		JA5
EAN-13(+2/+5 OFF)	F	JE0	Full ASCII Code 39(CDV & not send CD)	M	JA7
EAN-13(+2 ON)		JE3	Standard Code 39(disable CDV)		JA0
EAN-13(+5 ON)	JE3	Standard Code 39(CDV & send CD)	JA1		
Code 93	L	JG0	Standard Code 39(CDV & not send CD)		JA3
Code 11(disable CDV)	J	JH0	IATA 2 of 5	R	JR0
Code 11(send one CD)		JH0	Industrial 2 of 5	V	JS0
Code 11(send two CD)		JH1	China Post Code	H	JX0
Code 11(not send CD)		JH3	Interleaved 2 of 5(CDV & send CD)		JI1
Telepen(ASCII)	U	JB0	Interleaved 2 of 5(CDV & not send CD)	I	JI3
Telepen(Numeric)		JB1	Interleaved 2 of 5(disable CDV)		JI0

## SET ID - SETTING PROCEDURES

Setting steps:

1. Scan the SET ID bar code for a particular symbology.
2. Scan one or two alphanumeric characters from the Full ASCII Table.
3. Scan the SET ID bar code again.

**Example :** Define the MSI Code ID = A, Code 93 = G9

**MSI :**

**Step1: Scan MSI Set ID (Group 9). (page19)**

**Step2: "A" from Group 37. (page55)**

**Step3: Scan MSI Set ID (Group 9). (page19)**

**Code 93:**

**Step1: Scan Code 93 Set ID (Group 8). (page18)**

**Step2: "G" from Group 38, Scan "9" from Group 33..(page51)**

**Step3: Scan Code 93 Set ID (Group 8). (page18)**

### NOTES:

1. The length of a Code ID is either one or two characters. If one character is set, the Code ID output will be one character. If two characters are set, the Code ID output will be two characters.
2. Only one type of Code ID will be sent.

# GROUP-8

## CODE ID CONFIGURATION: SET ID

---



EAN 13 Set ID



EAN 8- Set ID



UPC E Set ID



UPC A Set ID



CODE 39 Set ID



Code 93 Set ID



Codabar Set ID



IATA Set ID



Code 128 Set ID



EAN128 Set ID



Telepen Set ID



Code 11 Set ID



Code 32 Set ID

# GROUP-9

## CODE ID CONFIGURATION: SET ID

---

China Post Code  
[ TOSHIBA Code ] Set ID



MSI Code Set ID



UK Plessy Set ID



Matrix 2 of 5 Set ID



Interleaved 2 of 5  
Set ID



Industrial 2 of 5 Set ID



Full ASCII Code39  
Set ID



RSS 14/LIMITED



RSS-Expand Set ID



RSS-14 Set ID



LABEL Code Set ID  
( Reserved )



---

# RESET



1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., scan RESET to start again.

# GROUP-10

## DELAY BETWEEN BLOCKS AND CHARACTERS

---

### INTERBLOCK DELAY

. 8001\$ 	<b>0mS</b>
. 8002\$ 	10mS
. 8003\$ 	50mS
. 8004\$ 	100mS
. 8005\$ 	200mS
. 8006\$ 	500mS

---

### INTERCHARACTER DELAY

. 8010\$ 	<b>140uS</b>
. 8011\$ 	500uS
. 8012\$ 	1mS
. 8013\$ 	4mS
. 8014\$ 	16mS

# GROUP-11

## KEYBOARD LAYOUT / CAPLOCK MODE / NUMERIC KEY

---

### KEYBOARD LAYOUT



**ENGLISH (USA)**



ENGLISH (UK )



GERMAN



FRENCH



JAPAN (106 key only)



SPANISH



ITALIAN



UNIVERSAL CODE



SWISS



CZECH (QWERTY)

### CAPITAL LOCK MODE



CAPLOCK ON



**CAPLOCK OFF**



CAPLOCK ON ( FIXED )

### NOTE:

When Barcode scanner set to Caplock Free mode.No matter of keyboard CapsLock LED indicator is ON or OFF , output will be always the same as the Original barcode. In other words , what you see is what output is.(CODABAR is the exception.) If ABCD/ABCD, abcd/abcd, ABCD/T\*E, abcd/tn\*e are on, they work independently according to their rules.

### NUMERIC KEY



NUMERIC KEY



ALPHANUMERIC KEY

# GROUP-12

Rs232: BAUD RATE,DATA BITS & PARITY

---

## BAUD RATE

. E001\$



300

. E002\$



600

. E003\$



1200

. E004\$



2400

. E005\$



4800

. E006\$



**9600**

. E007\$



19200

. E022\$



38400

---

## DATA BITS & PARITY

. E008\$



**8 Bits None**

. E009\$



8 Bits EVEN

. E010\$



8 Bits ODD

. E011\$



8 bits MARK

. E012\$



8 Bits SPACE

. E013\$



7 Bits EVEN

. E014\$



7 Bits ODD

. E015\$



7 Bits MARK

. E021\$



7 Bits SPACE

# GROUP-13

Rs232 : STOP BIT, HANDSHAKING, ACK/NAK, FLOW CONTROL ,BCC

## STOP BITS

. E016\$



**1 STOP BITS**

. E017\$



2 STOP BITS

## HANSHAKING

. E018\$



**NONE**

. E019\$



RTS enable at Power on

. E020\$



RTS enable with Communication

## ACK / NAK

. E023\$



ON

. E024\$



**OFF**

## FLOW CONTROL: TIME OUT

. E025\$



**1 Sec**

. E026\$



3 Sec

. E027\$



10 Sec

. E028\$



Unlimited

## BCC

. E029\$



RS232 BCC Char On

. E030\$



RS232 BCC Char Off

# GROUP-14

## WAND EMULATION PARAMETER SETTING

---

. D001\$



200us

**LEVEL DURATION OF  
MINI WIDTH**

. D002\$



600us

. D003\$



LOW

**POLARITY OF  
IDLE CONDITION**

. D004\$



HIGH

. D005\$



Bar High / Space Low

**OUTPUT OF WAND  
EMULATION**

. D006\$



Bar Low / Space High

. D007\$



PEN TYPE

**WAVE FORM**

. D008\$



FULL ASCII CODE 39

**GROUP 15~ 33**  
**SYMBOLOGIES**  
**FORMATTING**

# GROUP-15

## ENABLE SYMBOLOGIES

---



ENABLE ALL CODE



CODE 32



**CHINA POSTAL CODE**



UK PLESSY CODE



INDUSTRIAL 2 OF 5



MATRIX 2 OF 5



**INTERLEAVED 2 OF 5**



**CODE 128**



**CODABAR**



TELEPEN



**UPC-A**



**UPC-E**



**EAN -8**



**EAN -13**



MSI



**CODE 39**



**CODE 11**



CODE 93



**EAN-128**



IATA

# GROUP-16

## DISABLE SYMBOLOGIES

---

. A003\$  
  
DISABLE ALL CODE

. K011\$  
  
**CODE 32**

. K002\$  
  
CHINA POSTALCODE

. L011\$  
  
**UK PLESSY CODE**

. N002\$  
  
**INDUSTRIAL 2 OF 5**

. M011\$  
  
**MATRIX 2 OF 5**

. J002\$  
  
INTERLEAVED 2 OF 5

. J011\$  
  
CODE 128

. I002\$  
  
CODABAR

. L015\$  
  
**TELEPEN**

. H002\$  


UPC-A

. H008\$  


UPC-E

. H020\$  


EAN-8

. H014\$  


EAN-13

. L002\$  
  
**MSI**

. G009\$  
  
CODE 39

. I011\$  
  
CODE 11

. G011\$  
  
**CODE 93**

. M002\$  
  
EAN -128

. N018\$  
  
**IATA**

# GROUP-17

SYMBOLOLOGIES : CODE 32CHINA POST CODE ( TOSHIBA CODE ),

---

**CHINA POSTAL CODE  
[ TOSHIBA CODE ]**

. K001\$



**ENABLE**

. K002\$



DISABLE

. K003\$



**DISABLE CDV**

. K004\$



CDV & SEND CD

. K005\$



CDV & NOT SEND CD

. K006\$



MIN LENGTH ( 11 )

. K007\$



MAX LENGTH ( 48 )

# APPENDIX

## FULL ASCII ( Code 39 ) NUMERIC TABLE



### SETTING PROCEDURE

#### MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH

STEP 2 - Scan : Two digits from Appendix .

STEP 3 - Scan: MIN LENGTH / MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

#### NOTES:

1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., Scan RESET to start again.

**RESET** ➔



# GROUP-18

SYBBOLOGIES : MSI CODE , UK PLESSY CODE

---

. L001\$



ENABLE

. L002\$



**DISABLE**

. L004\$



**CDV & SEND CD**

. L003\$



CDV & NOT SEND CD

. L007\$



CHECK DIGIT DOUBLE  
MOD 10

**MSI**

. L008\$



CHECK DIGIT DOUBLE 11  
PLUS MOD 10

. L009\$



**CHECK DIGIT SINGLE  
MOD 10**

. L005\$



MIN LENGTH ( 6 )

. L006\$



MAX LENGTH ( 48 )

. L010\$



ENABLE

. L011\$



**DISABLE**

**UK PLESSY CODE**

. L012\$



CDV & SEND CD

. L013\$



**CDV & NOT SEND CD**

# APPENDIX

## FULL ASCII ( Code 39 ) NUMERIC TABLE



### SETTING PROCEDURE

#### MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH

STEP 2 - Scan : Two digits from Appendix .

STEP 3 - Scan: MIN LENGTH / MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

#### NOTES:

1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., Scan RESET to start again.

**RESET** ➔



# GROUP-19

SYMBOLOLOGIES: CODE 93, TELEPEN, IATA

---



ENABLE



**DISABLE**

**CODE 93**



MIN LENGTH ( 6 )



MAX LENGTH ( 48 )

---



ENABLE TELEPEN



**DISABLE TELEPEN**

**TELEPEN**



TELEPEN ASCII



TELEPEN NUMBER

---



**ENABLE**



DISABLE



**DISABLE CDV**



CDV & SEND CD

**IATA**



CDV & NOT SEND CDV



MIN LENGTH ( 6 )



MAX LENGTH ( 48 )

# APPENDIX

## FULL ASCII ( Code 39 ) NUMERIC TABLE



### SETTING PROCEDURE

#### MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH

STEP 2 - Scan : Two digits from Appendix .

STEP 3 - Scan: MIN LENGTH / MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

#### NOTES:

1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., Scan RESET to start again.

**RESET** ➔



# GROUP-20

SYMBOLOLOGIES : INTERLEAVED 2 OF 5 , CODE 11.

---



## INTERLEAVE 2 OF 5



## CODE 11



# APPENDIX

## FULL ASCII ( Code 39 ) NUMERIC TABLE



### SETTING PROCEDURE

#### MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH

STEP 2 - Scan : Two digits from Appendix .

STEP 3 - Scan: MIN LENGTH / MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

#### NOTES:

1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., Scan RESET to start again.

**RESET** ➔



# GROUP-21

SYBBOLOGIES : INDUSTRIAL 2 OF 5, MATRIX 2 OF 5

---



## INDUSTRIAL 2 OF 5



## MATRIX 2 OF 5



# APPENDIX

## FULL ASCII ( Code 39 ) NUMERIC TABLE



### SETTING PROCEDURE

#### MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH

STEP 2 - Scan : Two digits from Appendix .

STEP 3 - Scan: MIN LENGTH / MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

#### NOTES:

1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., Scan RESET to start again.

**RESET** ➔



# GROUP-22

SYMBOLOLOGIES: CODABAR

---



**ENABLE**



DISABLE



**DISABLE CDV**



CDV & SEND CD

## CODABAR



CDV & NOT SEND CD



MIN LENGTH ( 6 )



MAX LENGTH ( 48 )

---



ST/SP: abcd/abcd



**ST/SP: ABCD/ABCD**



ST/SP: ABCD/TN\*E



ST/SP:abc/tn\*e

## START / STOP



**SEND START /STOP**



Not Sent START / STOP

### Example of ST ( Start ) / SP ( Stop )

123456	Not Transmit ST/SP
A123456B	ST/SP: ABCD/ABCD
a123456b	ST/SP: abcd/abcd
A123456N	ST/SP: ABCD/TN*E
a123456n	ST/SP: abcd/tn*e

---



CLSI FORMAT ON



CLSI FORMAT OFF

## CLSI FORMAT

**CLSI-** Enable library space insertion. If you enable the CLSI format, this option inserts spaces in position 2,7,13of the datastring for use in library systems

# APPENDIX

## FULL ASCII ( Code 39 ) NUMERIC TABLE



### SETTING PROCEDURE

#### MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH

STEP 2 - Scan : Two digits from Appendix .

STEP 3 - Scan: MIN LENGTH / MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

#### NOTES:

1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., Scan RESET to start again.

**RESET** ➔



# GROUP-23

SYMBOLOLOGIES: ABC-CODABAR, CX- CODABAR

---



ON



**OFF**



SET INSERT DATA\*

## ABC- CODABAR



INSERT DATA -ON



INSERT DATA- OFF

\* The data can any alphanumerics of FULL ASCII Table (GROUP 34-42)(page 52-60)

### REMARK:

ABC-CODABAR (American Blood Commission.).The ABC Code is an acronym for American Blood Commission. This bar code is a variant of the CODABAR Code developed for he use in the blood bank. This Code consists of two bar codes which are decoded in one read cycle. The code is concatenated when the stop character of the first bar code and the start character of the second bar code is a "D ", these two"D "are not transmitted.

---



ON



**OFF**



SET INSERT DATA\*

## CX CODE- CODABAR



INSERT DATA -ON



INSERT DATA- OFF

\* The data can any alphanumerics of FULL ASCII Table (GROUP 34-42)(page 52-60)

### REMARK:

The CX-Code consists of two bar Codes which are decoded in one read cycle, the code is concatenated when the stop character of the first bar code is a C, and the start character of the second bar code is a B. The B and C characters are not transmitted.

# GROUP-24

SYBBOLOGIES : CODABAR COUPLING, ADJACENT REQUIRED.



ON



OFF



SET INSERT DATA\*

## CODABAR COUPLING



INSERT DATA -ON



INSERT DATA- OFF

ABC-Codabar and CX-Codabar have certain rules regarding the Stop Character of first bar code and the stop character of Second bar code while in conjunction, while Codabar-Coupling is enabled, the data from any two Codabar bar codes can be coupled into one set of data without any limitations between the Stop character of first bar code and the Start character of second bar code. The Start and Stop characters associated with each bar code each bar code will be sent.

*\*The data can any alphanumeric of FULL ASCII Table (GROUP 34-42)(page 52-60)*

## ADJACENT REQUIRED

If CODABAR ADJACENT is enabled, the scanner will only read two adjacent Codabar bar codes, A single bar code will not be read.



ON



OFF

### NOTES:

1. Both ABC-Codabar and CX-Codabar can be enabled together, except when Codabar-Coupling is also enabled.
2. If ABC-Codabar, CX-Codabar, and Codabar-Coupling are all enabled at same time, the scanner will read only Codabar-Coupling, that is, ABC-Codabar, CX-Codabar will be considered coupling formats.

## SETTING PROCEDURE - SET INSERT DATA

Step 1- Scan SET INSERT DATA.

Step 2- Scan any combination of alphanumeric characters from FULL ASCII TABLE.

Step 3- Scan SET INSERT DATA.

# RESET



### NOTES:

1. The scanner will beep three times as reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., scan RESET to start again.

# GROUP-25

SYMBOLOGIES: STANDARD & FULL ASCII CODE 39, CODE 32

## STANDARD CODE 39 & FULL ASCII 39



**ENABLE**



DISABLE



**FULL ASCII CODE 39**

**ENABLE**



FULL ASCII CODE 39  
DISABLE



START / STOP - SEND



**DISABLE CDV**



CDV & SEND CD



CDV & NOT SEND CD



MIN LENGTH ( 1 )



MAX LENGTH ( 48 )



**START / STOP Not SEND**

### NOTE:

The default for Code 39 is Standard Code 39. If Full ASCII Code 39 is enabled, Standard Code 39 will be automatically disabled.



ENABLE



**DISABLE**



**LEADING SEND**

## CODE 32



LEADING NOT SEND



**TAILING SEND**



TAILING NOT SEND

# APPENDIX

## FULL ASCII ( Code 39 ) NUMERIC TABLE



### SETTING PROCEDURE

#### MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH

STEP 2 - Scan : Two digits from Appendix .

STEP 3 - Scan: MIN LENGTH / MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

#### NOTES:

1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., Scan RESET to start again.

**RESET** ➔



# GROUP-26

SYMBOLOLOGIES: UPC-E SYSTEM NUMBER

---

**UPC E0**



**UPC E1**



**NOTE:**

Most UPC Bar codes lead with 0 number systems, For these bar codes use UPC E(0) Selection, For the bar codes that lead with the 1 number, use UPC(E1) select

---

**UPC-E EXPAND  
TO UPC-A**



**NOTE:**

1. If UPC E EXPAND TO UPC A FORMAT set enabled, The output of UPC-A will be 12 digits.
2. The default output of UPC-A is 13 digits, if UPC-A EXPAND TO EAN13 is enabled, a zero will be added to in front of the bar code.

# GROUP-27

SYBBOLOGIES FORMATTING: UPC-E

---



**ENABLE**



DISABLE



**LEAD DIGIT SEND**

**UPC-E**



**LEAD DIGIT NO SEND**



**CHECK DIGIT SEND**



CHECK DIGIT NO SEND

---



+5 ON



**+ 5 OFF**



+2 ON



**+ 2 OFF**

**ADD ON SUPPLEMENT**



ADD A SPACE ON



**ADD A SPACE OFF**



ADDENDA REQUIRED OFF



**ADDENDA REQUIRED ON**

---

**NOTE:**

If **ADDENDA REQUIRED** is set to ON, The scanner will only read an UPC-E bar code that has an addenda.

# GROUP-28

SYMBOLOGIES FORMATTING: UPC -A

---



**ENABLE**



DISABLE



**LEAD DIGIT SEND**

**UPC- A**



LEAD DIGIT NO SEND



**CHECK DIGIT SEND**



CHECK DIGIT NO SEND

---

**UPC-A EXPAND  
TO E EAN -13**



ENABLE



**DISABLE**

---



+5 ON



**+ 5 OFF**



+2 ON



**+ 2 OFF**

**ADD ON SUPPLEMENT**



ADD A SPACE ON



**ADD A SPACE OFF**



ADDENDA REQUIRED OFF



**ADDENDA REQUIRED ON**

---

**NOTE:**

If **ADDENDA REQUIRED** is set to ON, The scanner will only read an UPC-A bar code that has an addenda.

# GROUP-29

SYBBOLOGIES FORMATTING: EAN 8

---



**ENABLE**



DISABLE



**LEAD DIGIT SEND**

**EAN-8**



LEAD DIGIT NO SEND



**CHECK DIGIT SEND**



CHECK DIGIT NO SEND

---



+ 5 ON



**+ 5 OFF**



+ 2 ON



**+ 2 OFF**

**ADD ON SUPPLEMENT**



ADD A SPACE ON



**ADD A SPACE OFF**



ADDENDA REQUIRED OFF



**ADDENDA REQUIRED ON**

---

**NOTE:**

If **ADDENDA REQUIRED** is set to ON, The scanner willonly read an **EAN-8** bar code that has an addenda.

# GROUP-30

SYMBOLOGIES FORMATTING: EAN13 ,ISBN,ISSN,ISMN



**ENABLE**



DISABLE



**LEAD DIGIT SEND**

**EAN-13**



LEAD DIGIT NO SEND



**CHECK DIGIT SEND**



CHECK DIGIT NO SEND



+ 5 ON



**+ 5 OFF**



+ 2 ON



**+ 2 OFF**

**ADD ON SUPPLEMENT**



ADD A SPACE ON



**ADD A SPACE OFF**



ADDENDA REQUIRED OFF



**ADDENDA REQUIRED ON**



**ISBN OFF**

**ISBN**



ISBN ON

## NOTES:

1. If ADDENDA REQUIRED is set to ON, the scanner will only read an EAN-13 bar code that has an addenda.
2. Either ISBN or ISBN will be considered as an extension of EAN-13, If ISSN or ISBN need to be read , EAN13 must be enabled. If ISSN and ISBN need to be read with addenda, EAN13 must be enabled with ADDENDA REQUIRED set to ON.



**ISSN OFF**

**ISSN**



ISSN ON

## NOTE :

Both ISSN and ISBN are the extension codes of EAN-13, If scanner is required to read either ISSN or ISBN, Enable EAN-13 must be enabled. Otherwise the scanner will not be able to read the ISSN or ISBN.



**ISMN OFF**

**ISMN**



ISMN ON

# GROUP-31

SYBBOLOGIES: EAN/UCC-128, CODE 128



**ENABLE**



DISABLE



CODE ID ENABLE



**CODE ID DISABLE**

## EAN/ UCC- 128



FUNC 1 CHEAR SEND



**FUNC 1 CHEAR NOT SEND**



DEFINE EAN 128

### NOTES :DEFINE EAN 128

The first FNC1 character is translated to ]c1, and the second FNC1 character is translated to an ASCII <GS> character ( scan from Group 43-45 ). (page61-63)

### String format :

ICI	DATA CHARACTERS	<GS>	DATA CHARACTERS
-----	-----------------	------	-----------------

### Setting Procedure:

- 1:Scan DEFINE EAN128.
- 2: Scan ASCII Code (page60)
- 3: Scan DEFINE EAN128.

## CODE 128



**ENABLE**



DISABLE



MIN LENGTH ( 5 )



MAX LENGTH ( 48 )

# GROUP-32

## RSS, LIMITED, EXPANDED

. N032\$



RSS-14 ENABLE

. N034\$



RSS-14 CHECK DIGIT SEND

. N036\$



RSS-14 PREFIX SEND

. N038\$



RSS-14 STACKED ENABLE

. P024\$



RSS-14 SET ID

**RSS**

. N033\$



RSS-14 DISABLE

. N035\$



RSS-14 CHECK DIGIT NOT SEND

. N037\$



RSS-14 PREFIX NOT SEND

. N039\$



RSS-14 STACKED DISABLE

. N010\$



RSS-LIMITED ENABLE

. N012\$



RSS-LIMITED CHECK DIGIT SEND

. N024\$



RSS-LIMITED PREFIX SEND

. P019\$



RSS-LIMITED SET ID

**LIMITED**

. N011\$



RSS-LIMITED DISABLE

. N013\$



RSS-LIMITED CHECK DIGIT NOT SEND

. N025\$



RSS-LIMITED PREFIX NOT SEND

. N026\$



RSS-EXPANDED ENABLE

. N028\$



RSS-EXPANDED STACKED ENABLE

. N030\$



RSS-EXPANDED MIN LENGTH

. P020\$



RSS-EXPANDED SET ID

**EXPANDED**

. N027\$



RSS-EXPANDED DISABLE

. N029\$



RSS-EXPANDED STACKED DISABLE

. N031\$



RSS-EXPANDED MAX LENGTH

# GROUP-33

## BULE TOOTH MODEL

### Connecting Multiple Handheld Barcode to a BT Bluetooth Adapter

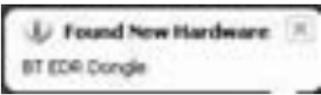
The Quick Guide describes the steps to connect Hand-held Barcode scanner to Bluetooth adapter. Other Bluetooth adapters may have similar installation steps. Please read the user manual before you setup Hand-held barcode scanner and Bluetooth adapter.

#### Package Contents

- CCD Barcode scanner with Bluetooth
- AC adapter
- Bluetooth adapter(Dongle) (optional)
- Program CD and quick guide manual
- USB cable(optional)

#### Setup the Bluetooth Adapter

Please follow the steps shown below to install the Bluetooth adapter in your computer:

1. Plug the USB Bluetooth adapter to USB port. Windows Found New Hardware Wizard “BT EDR Dongle” will guide you through the Bluetooth Adapter installation. 
2. If the New Hardware Wizard can not auto-detect the driver, you can also take the following options to install:
  - a. You need to go to “Start” and click on “Windows Update” to acquire the most recent updates. You should be able to complete the installation afterwards.
  - b. Use the installation CD from the package to install the software. Installation program will guide you through the software installation.
3. Once the installation is complete there will be an Icon in the System Tray . The System Tray is located near the Windows System Time. 

# GROUP-33

## BULE TOOTH MODEL

### Setting up Barcode Scanner with Bluetooth Adapter (Dongle)

1. “Right Click” on the Bluetooth icon in the System Tray . Then select option “Add new Bluetooth hardware.”
2. Go to next page and find the “Disconnect BT” label on the bottom of the page.
3. While the Bluetooth setup wizard is searching for Bluetooth devices, **click on the trigger of the scanner to activate the connection. Scan the “Disconnect BT” barcode to complete the search.**
4. Select “Device Name” from  Device Name
5. Follow the Bluetooth setup wizard until you have the option to register pin code or skip. You can skip the PIN code setup for now and register it later.

#### **PIN code registration/matching:**

6. Select PIN code registration
7. Enter your PIN code manually then click on PIN code matching.
8. Scan the PIN code you entered manually referring to the “Bluetooth setting” next page. Finally, scan the “CR” barcode at the bottom which represents as “Enter.”
9. Follow the setup wizard until you click on “Finish.”

### CAUTION

1. The desktop PC or Notebook should remain active at all time during the scanning process. If desktop PC or Notebook were disconnected from scanner during transmission, the scanning process would be interrupted and the data may be lost. Recommend to turn off any hibernation or standby mode of the PC or Notebook.
2. For Windows Vista version, you need to register/match the PIN code for barcode scanner to function properly.

# GROUP-33

BULE TOOTH MODEL

---

BlueTooth setting (pin code and disconnection)



CR

---

. E031\$



DISCONNECT BT

# GROUP-34

FULL ASCII TABLE ( CODE 39 )

---

%L  
  
NUL

\$B  
  
STX

\$D  
  
EOT

\$F  
  
ACK

\$H  
  
BS

\$J  
  
LF

\$L  
  
FF

\$N  
  
SO

\$A  
  
SOH

\$C  
  
ETX

\$E  
  
ENQ

\$G  
  
BEL

\$I  
  
HT

\$K  
  
VT

\$M  
  
CR

\$O  
  
SI

# GROUP-35

FULL ASCII TABLE ( CODE 39 )

---



DLE



DC2



DC4



SYN



CAN



SUB



FS



RS



DC1



DC3



NAK



ETB



EM



ESC



GS

# GROUP-36

FULL ASCII TABLE ( CODE 39 )

%E  
  
US

/ A  
  
!

/ C  
  
#

%  
  
%

%G  
  
<

/ Z  
  
:

%I  
  
>

%V  
  
@

  
SP

/ B  
  
"

\$  
  
\$

/ F  
  
&

%F  
  
;

%H  
  
=

%J  
  
?

# GROUP-37

FULL ASCII TABLE ( CODE 39 )

---



# GROUP-38

FULL ASCII TABLE ( CODE 39 )

---



G



I



K



L



N



P



R



T



H



J



M



O



Q



S



U

# GROUP-39

FULL ASCII TABLE ( CODE 39 )

---

V  
  
V

X  
  
X

Z  
  
Z

%L  
  
\

%N  
  
^

%W  
  
,

+B  
  
b

+D  
  
d

W  
  
W

Y  
  
Y

%K  
  
[

%M  
  
]

%Q  
  
-

+A  
  
a

+C  
  
c

# GROUP-40

FULL ASCII TABLE ( CODE 39 )

---



# GROUP-41

FULL ASCII TABLE ( CODE 39 )

---



# GROUP-42

FULL ASCII NUMERIC TABLE ( CODE 39 )

---



0



1



2



3



4



5



6



7



8



9

# GROUP-43

## FUNCTION CODE TABLE ( CODE 39 )

---



# GROUP-44

## FUNCTION CODE TABLE ( CODE 39 )

\$TQ



Cursor Right

\$TP



Cursor Left

\$TQ



Cursor Up

\$TR



Cursor Down

\$TS



Page Up

\$TT



Page Down

\$TU



Tab

\$TV



Back Tab

\$TW



Esc

\$TX



Enter

\$TY



BS

\$TZ



Ins

\$T%K



Del

# GROUP-45

## FUNCTION CODE TABLE ( CODE 39 )

---

\$T%L



Alt (Left) make\*1

\$T%M



Alt (Left) break

\$T%N



Shift (Left) make \*2

\$T%O



Shift (Left) break

\$T%W



Ctrl (Left) makek \*3

\$T+A



Ctrl (Left) break

\$T+D



Enter (Numeric Key)

---

For UK Keyboard Special Character

\$T+B



£

\$T+C



£

### Note:

- \*1. "Alt(left)Make" is programmed, please scan "Alt(left)Break" to resume barcode setting.
- \*2. "Shift(left)Make" is programmed, please scan "Shift(left)Break" to resume barcode setting.
- \*3. "Ctrl(left)Make" is programmed, please scan "Ctrl(left)Break" to resume barcode setting.



## **GROUP- 46**

### **TROUBLE SHOOTING**

The Ezscan is simple to install and use. Most operational problems can be attributed to:



**INCORRECT INTERFACE CONNECTION**  
**INCORRECT CONFIGURATION SETUP**  
**POOR BAR CODE QUALITY**

### **GENERAL PROCEDURES**

1. First, make sure the scanner is firmly connected to the host computer, when attached correctly, the scanner will emit one long beep. When the trigger is pressed, LED will flash.
2. Once the power is on, try scanning some sample bar codes from this user's guide. The scanner should beep and the LED should flash to indicate a good read in the default configuration. If reading the bar code does not result in a good read, there may have been a problem with the scanning technique or the interface configuration setting. Reset the scanner to default.
3. If the scanner indicates a good read, but no output of data to the monitor, please check the cabling connect

### **KEYBOARD INTERFACES PROBLEMS.**

In general, the Keyboard Wedge interface is trouble free, but there still are some things to check in the event of a problem.

#### **Do you have the correct cable?**

Most computers use an XT/AT-compatible keyboard. Be sure you have the proper cable for your computer.

#### **Does the keyboard work?**

Since the keyed-in data from keyboard must pass through the decoder, the cabling connections are correct if the keyboard is functioning.

#### **Can your computer accept the data fast enough?**

Your computer's BIOS has a feature related to keyboard typing speed. Try to set the Intercharacter Delay feature to stimulate the keystroke entry speed.

#### **Does keyboard port supply enough power ?**

Most notebook computers do not supply enough power to the scanner. The symptom of insufficient power is a lower "good read" rate (since there is not enough power to properly support the scanning operation).



## GROUP-47 TROUBLE SHOOTING

### RS232 INTERFACE PROBLEMS

**Once you read bar code, there is no output on the monitor: the symptoms may be caused by:**

1. If the handshaking Have you set the protocol of RS232 like Baud rate, data bits, parity and handshaking etc. of a scanner to match to the PC terminal setting? Solution: reset the above mentioned RS232 protocol of scanner to match to PC protocol.
2. Pls check if the cable pinout assignment of bar code match to the pinout assignment of PC terminal?

**No power supply to scanner;**

1. Do you connect the right power adaptor to the scanner?
2. Does pinout connect the cable with right pinout which match to PC-terminal?

### INTERFACE PROBLEMS

**Are you using the Wand Emulation mode with Code 39 output? If so, is your decoder set to accept Code 39 data?**

Check the scanner's configuration setting to make sure it can accept the bar code symbology you are trying to read.

**Although the cable seems to connect properly, does the scanner not send data to the host computer?**

There are no industrial standards for scanner interface cables, so even if they look alike and have similar connector, they might not be alike. For example, cables for Keyboard Wedge and Wand Emulation are similar, but they are not interchangeable due to different pin assignments. Be sure the cable you are using attaches correctly to the matching connector.

### CONFIGURATION SETUP

**Are you setup for the right Interface?**

Are you set up for the right interface? Did you select the Keyboard Wedge cable but set the scanner for RS-232 or Wand Emulation? Or did you change the Keyboard cable to RS-232 but forget to set the scanner interface to RS-232 as well? Set the scanner to its default settings, then select the correct interface based upon the cable and input you are using.

**Sympton ----The LED lighting is stuck, and no function at all, even triggered the scanner.**

**Solution ---- Set the Scanner to Default condition, and choose the right interfaces**



## **GROUP-48**

### **TROUBLE SHOOTING**

---

#### **Is the proper symbology enabled?**

Each bar code symbology can be individually enabled or disabled. It is suggested that you enable only those that you will be scanning, thereby eliminating the possibility of misreads from the scanning of other symbologies.

#### **Does the selected the bar code symbology configuration match the bar code(s) being read?**

Scanned data from each bar code symbology can be restricted to eliminate the scanning of unused symbologies. The restrictions are individually set for each symbology.

## **POOR BAR CODE QUALITY**

The third problem area has nothing to do with the scanner, but rather the printed quality of the bar code and/or the scanning technique employed.

#### **TOLERANCE OF BAR CODE**

A bar code may have a tolerance. Normally, the tolerances are caused by bar code font software or a printer. Software with a proven reputation should be chosen to generate bar codes. If the printed bar codes are distorted, the scanner might not recognize them.

It is very difficult to get a good read from a poor quality bar code unless it is scanned many times. As the quality of the symbology drops, the chances for undetected error increase. A bar code Check Digit Verification (CDV) should be used to check the quality of the suspect bar codes.

#### **LABELS ( PAPER & COLOR & PRINTER )**

The light source of a bar code scanner is generally red, so there are some restrictions for the printing of labels. Care should be taken when choosing materials, especially color inks and papers. Sometimes the combination of the label color and the color of the ink can, in effect, blind the scanner. Media with a shiny surface will also cause reading difficulties for scanners.

Moreover, poor printing quality can also result in reading difficulties for the scanner. Bad printing may be caused by the type of printer used; dot matrix and inkjet printers will not produce high quality bar codes. Also check to make sure the ink, ribbon, or toner in good supply.

# APPENDIX 1

## DEFAULT TABLE 1

CROUP	PARAMETER	DEFAULT	
1	Computer Type	PC-AT	
	Interfaces	*	
2	Reading Mode	Trigger	
3	Beep Tone Mode 2.1k	1.Beep Medium	
	Beep Tone Mode 2.7k	1.Beep Medium	
	Capital lock Mode	3.Caplock Off	
4	Preamble & Postamble	Off	
5	Accuracy Adjustment	2	
6-9	Enable & Disable Code ID	Off	
10	Interblock Delay	Oms	
	Inter-character Delay	140us	
11	Keyboard Layout	English(USA)	
	Terminator	CR, CR+LF	
12	Baud Rate	9600	
	Data Bits & Parity	8 Bit None	
13	Stop Bits	1 stop bit	
	Handshaking	None	
	ACK/NAK	Off	
	Flow Control TimeOut	1 Sec	
14	Level duration of Mini Width	200us	
	Polarity Of Idle Condition	High	
	Output of Wand Emulation	Bar High/Space Low	
	Wave Form	Full ASCII 39	
15-16	Enable and Disable Symbolgies		
	Code 32	Disable	
	China Postal Code	Enable	
	UK Plessy Code	Disable	
	Industrial 2 of 5	Disable	
	Matrix 2 of 5	Disable	
	Interleaved 2 of 5	Enable	
	Code 128	Enable	
	Cadabar	Enable	
	Telegen	Disable	
	UPC-A	Enable	
	UPC-E	Enable	
	EAN-8	Enable	
	EAN-13	Enable	
	MSI	Disable	
	Code 39	Enable	
Code 11	Enable		
Code 93	Disable		
EAN-128	Enable		
IATA	Disable		
17	1	China Post Code	
		Enable/Disable	Enable
		Check Digits	Disable CDV
		Min Length	11 digits
	Max Length	48 digits	
	2	Code 32	
Enable/Disable		Disable	
		Leading send/not send	send
18	1	MSI	
		Enable/Disable	Disable
		Check Digits	CDV & send CD
		Check Digits Mode	Single MOD 10

\* The interface setting of scanner does not have certain default value, the default of interface of scanner will be set according to customer order.

# APPENDIX 1

## DEFAULT TABLE 2

CROUP	PARAMETER	DEFAULT	
18	<b>UK Plessy</b>		
	Enable/Disable	Disable	
	Check Digits	CDV & not send CD	
19	<b>IATA</b>		
	Enable/ Disable	Disable	
	Check Digits	Disable CDV	
	Min Length	6 digits	
	Max Length	48 digits	
	<b>Code 93</b>		
	Enable/Disable	Disable	
	Min Length	6 digits	
	Max Length	48 digits	
	<b>Telepen</b>		
	Enable/Disable	Disable	
	Telepen ASCII /Number	Number	
20	<b>Interleaved 2 of 5</b>		
	Enable/Disable	Enable	
	Check Digits	Disable CDV	
	First/ last digit suppressed	No suppressed	
	Min Length	6 digits	
	Max Length	48 digits	
	<b>Code II</b>		
	Enable/Disable	Disable	
	Check Digits	Disable CDV	
	Min Length	6 digits	
	Max Length	48 digits	
	21	<b>Industrial 2 of 5</b>	
Enable/Disable		Disable	
Check Digits		Disable CDV	
Min Length		6 digits	
Max Length		48 digits	
<b>Matrix 2 of 5</b>			
Enable/Disable		Disable	
Check Digits		Disable CDV	
Min Length		6 digits	
Max Length		48 digits	
22		<b>Codabar</b>	
		Enable/Disable	Enable
	Check Digits	Disable CDV	
	Min Length	6 digits	
	Max Length	48 digits	
	ST/SP;Abcd/abcd,abcd/tn*c, ABCD/ABCD,ABCD/TN*C	ABCD/ABCD	
	Start(ST)/Stop(SP)send	Send	
	CLSI Format	ON	
	<b>ABC-Codabar</b>		
ON/OFF	Off		
Insert Data	Off		
23	<b>CX-Codabar</b>		
	Insert Data	Off	
	ON/OFF	Off	
24	<b>Codabar-Coupling</b>		
	ON/OFF	Off	
	Insert Data	Off	
	Adjacent Required	Off	
25	<b>Code 39</b>		
	Full ASCII 39 Enable/Disable	Enable	
	Check Digits	Disable CDV	
	Start/Stop	Not Send	
	Min Length	1 digits	
	Max Length	48 digits	

# APPENDIX 1

## DEFAULT TABLE 3

CROUP	PARAMETER	DEFAULT	
26	<b>UPC-E</b>		
	Enable/Disable	Enable	
	Check Digits	Send	
	Lead Digits	Send	
	Add a space	Off	
	Addenda required	Off	
	+5 On/Off	Off	
	+2 On/Off	Off	
27	<b>UPC-A&amp;E, EANS Expand, UPCE systems number</b>		
	UPC E(0) On/Off	On	
	UPC E(1) On/Off	Off	
	UPC-E expand to UPGA	Disable	
	UPC-A expand to EAN13	Disable	
28	<b>UPC-A</b>		
	Enable/Disable	Enable	
	Check Digits	Send	
	Lead Digits	Send	
	Add a space	Off	
	Addenda required	Off	
	+5 On/Off	Off	
	+2 On/Off	Off	
29	<b>EAN-8</b>		
	Enable/Disable	Enable	
	Check Digits	Send	
	Lead Digits	Send	
	Add a space	Off	
	Addenda required	Off	
	+5 On/Off	Off	
	+2 On/Off	Off	
30	<b>EAN-13</b>		
	Enable/Disable	Enable	
	Check Digits	Send	
	Lead Digits	Send	
	Add a space	Off	
	Addenda required	Off	
	+5 On/Off	Off	
	+2 On/Off	Off	
		ISSN On/Off	Off
	ISBN	Off	
31	1	<b>EAN/UCC128</b>	
		Enable/Disable	Enable
		Code ID	Disable
		Func 1 Chear send	Not Send
	2	<b>Code 128</b>	
		Enable/Disable	Enable
		Check Digits	Disable CDV
		Min Length	5 digits
		Max Length	48 digits
	32	Rss-14	
Rss-14 Check digit		Not Send	
Rss-14 Prefix		Not Send	
Rss-14 Stacked		Enable	
Rss-Limited		Disable	
Rss-Limited Check Digit		Not Send	
Rss-Limited Prefix		Not Send	
	Rss-Expanded	Disable	

# Appendix 2

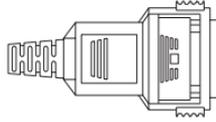
## Cable Pin Assignment

### INTERFACES:

#### 1. TTL , Wand Emulation

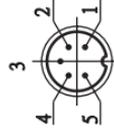
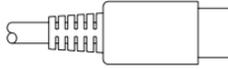
1.1 ) AMP ( D-Sub 9Pin ):

Pin	Signal
2	Data
7	GND
9	+5VCC



1.2 ) Din 5 male ( 240 degree):

Pin	Signal
1	+5Vcc
2	Data
3	GND
4	N/A
5	N/A

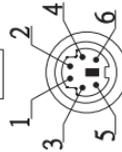
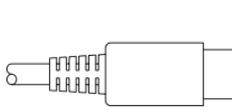


#### 2. Keyboard Interface:

Type of connector:

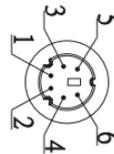
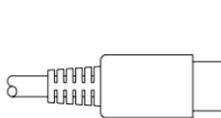
2.1 ) PS/2 Mini Din6 Female:

Pin	Signal
1	PC Data
2	NC
3	GND
4	+5Vcc
5	PC-Clk
6	NC



2.2 ) PS/2 Mini Din6 Male:

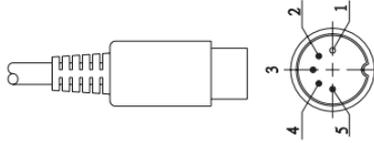
Pin	Signal
1	KB- Data
2	NC
3	GND
4	+5Vcc
5	KB-CLK
6	NC



Type of connector:

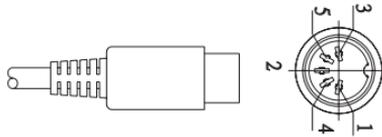
2.3) PC-AT : Din 5 Male :

Pin	Signal
1	KB-Clk
2	KB-Data
3	NC
4	GND
5	+5VCC



2.4) PC-AT : Din 5 Female

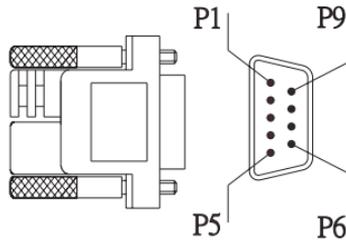
Pin	Signal
1	PC-Clk
2	PC-Data
3	NC
4	GND
5	+5VCC



### 3.RS232 Interfaces:

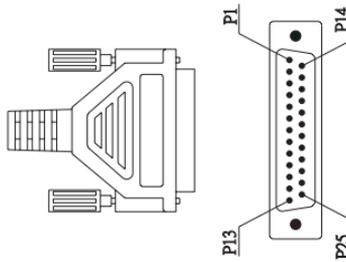
3.1) DB9F

Pin	Signal
2	TXD(Out)
3	RXD(In)
5	GND
7	CTS(In)
8	RTS(Out)
9	+5Vcc



3.2) DB25F

Pin	Signal
2	RXD( In )
3	TXD( out )
4	CTS( In )
5	RTS( Out )
7	GND
16	+5VCC
25	+5VCC



# Appendix 3

## BAR CODE TEST CHART

DENSITY	NARROW mm(mil)	WIDE mm(mil)	CHAR.GAP mm(mil)	N/W RATIO
MEDIUM DENSITY	0.25(10)	0.625(25)	0.25(10)	1/2.5

### MEDIUM DENSITY

NW-7  
(CODABAR)



B-\$./.+00123B

CODE-39



MARSON.CO

Interleaved  
2of5



9876543210

UPC



0 6  
31323 12078 4

EAN



4 712567 014012 1

# Appendix 3

## BAR CODE TEST CHART

### LOW DENSITY



C9876543210D



CODE-39 TEST



0012345690



4716415942052



071589812308