

EZ One Shot
**BAR CODE
SCANNER
PROGRAMING
SETUP MANUAL**



MANUAL VER:
MAR20020808



WARNING

Please shut down the Power of your P/C system before connecting the scanner. This process is critical prior protecting both scanner and your P/C system from serious damage

We reserve the right to change the specifications and other info without prior notice, please contact us for the updated info.

We shall be not liable for the technical or editorial errors or emissions contained herein, nor for consequential or incidental damages resulting from performance abuse of this booklet.

This product is warranted for one year warranty from the date of purchase under proper using conditions, covering defects in material and workmanship. The warranty does not cover incidental or consequential damages incurred by customer misuse, or modification.

FC and **CE** Compliance :

This device has been tested and found comply with the limits for a Class B digital pursuant to part 15 of the FCC Rules.

CE This device has been tested and found compliant with the following listed standards as required by the EMC Directive 89/336/EEC as amended by directives 92/EEC and 93/68/EEC: EN55022(1992); EN55024(1992); EN55082-1 (1998)

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INTRODUCTION

Machine-readable bar codes save human from senseless boredom and costly errors of data entry. Human use a keyboard or a mouse for data entry to a computer. Bar codes must be scanned in via some other means. Thus bar code Scanner is a high performance input devices which provide fast and accuracy for bar code encoding, and will improve your work efficiency. The bar Code scanner can be widely applied to Logistic, Hospital, Production, Libraries ,Office Management, Document Management, office Automation, Time & Attendance, Security, Retail and POS, and etc

GENERAL

Bar Code Scanner looks very simple and easy to install. It seems that you can easily to fix it to your terminal/ computer easily as well as computer mouse and keyboard. In fact, it is a very complicate computer device, there are many technical difficulties in the software setting which need professional assistance.

If you are the FIRST TOUCH bar code scanner users who do not familiarly with a bar code, you are advised that do not set any parameter to the scanner, before you get an expert advisory with the VAR(value-added, System Integrator Services Provider, reseller, distributors, Hardware or software engineers before you go further for setting.



EZ TROUBLESHOOTING

To save your time, Before returning the scanner back, you can fix-up the trouble step by step with Easy Troubleshooting guides as follow. Scanners may have a trouble, normally the trouble attribute to a wrong setting, if the troubles are caused by the wrong setting, It can be fixed up easily with the Easy Troubleshooting guide as follow,

1. Step: Unplug the Cable from Terminal.
2. Step: re plugs in the cable from the terminal.
3. Step: Set the scanner to Default (Group 1)



4. Step: If you did the above steps for troubleshooting, but the troubles are still unsolved, Please finds the troubleshooting which provided at the Figure 2 at the next page.
5. Step: If you tested all the steps as Figure 2, and the scanner is still in problems, please find troubleshooting at Group 43~46 for further assistance.

Figure 2

No	Kind of Troubles	Symptoms	Solutions
1	Computer Type (Group 1)	Scanner performs well as usual, but there is no any output of data on the monitor while scanning.	<ol style="list-style-type: none"> 1. Unplug a cable from the Terminal, 2. Replug in the cable. 3. Set the scanner to exact Computer type immediately.
2	Interfaces Selections (Group 1)	Scanner will beep a sound then the LED light turn off, no wonder how many times that you push the switch button, the scanner still cannot work properly, seems that it has seriously damages.	<ol style="list-style-type: none"> 1. Unplug a cable from the Terminal, 2. Replug in the cable. 3. Set the scanner to the right interfaces, you are remind to check if the cable same to the Interfaces which exactly you want.
3	Setting Procedure have not completed (Setting Need Triple Shot scanning) ----- Group - 4,5,8,9, 17, 18, 19,20,22,23,24, 25,31	<p>Mostly, all setting need only one shot setting, but few of them need Triple scanning for setting. There are listed as follow:</p> <ol style="list-style-type: none"> 1. Preamble, Postamble (Group 4). 2. Accuracy Adjustment (Group 5). 3. Customer ID Configuration (Group 8,9). 4. Min / Max Length (Group 17, 18, 19, 20, 21, 22, 24, 25). 5. Set A Data between ABC Codabar (Group 22, 23). 6. Set A Data between CX- Codabar (Group 22, 23). 7. Set A Data between Coupling Codabar (Group 22, 23). 8. Define EAN128 (Group 31). 	<ol style="list-style-type: none"> 1. The setting procedures are been described clearly at related pages. For example Code = Code39, Min Length = 6. Scan Min Length (Group 24) Scan "0", "6" from Appendix 1. Scan Min Length (Group 24) 2. Scanner Beep " T1", "T1". For uncompleted setting. 3. Scan RESET to setup one again.
4	Limitation of length of the bar code	<ol style="list-style-type: none"> 1. Scanner is not able to read the bar code in certain length bar code. 2. Diagnose it trying with another bar codes which should be same symbolologies but in different length. 3. If the scanner has well read to those bar code in different length. The problem may be caused by the length of Min/Max Length. 	Reset the Min/ Max Length of those symbolologies,
5	Rs232 Protocol Communication setting problem	Rs232 trouble mostly caused by the not match of protocol communication setting. Scanners work normal, have a beep for scanning, but no output of data	Set communication Parameter of Rs232 Protocol : Baud Rate, Handshaking, Stop Bits, Data Bits and Parity match between the scanner and PC .

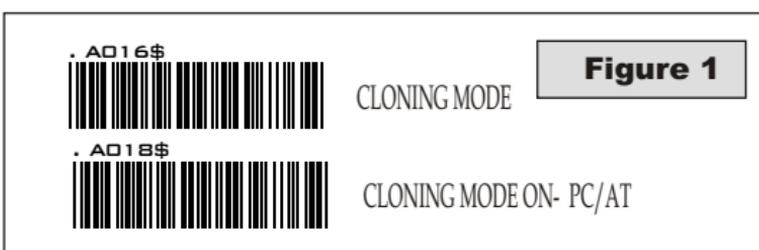
CLONING MODE

WHAT IS CLONING MODE?

CLONING means duplicate a parameter's setup of a scanner to the other's scanners. It can save much time for lots scanner setting.

HOW SHOULD THE CLONING WORK?

- Step 1 : Take a scanner, set all the parameters with this manual.
- Step 2 : Scan the CLONING MODE bar code shown at Figure 1.
- Step 3 : Once CLONING MODE is Scanned, all setup parameter will be converted into alphanumeric and throw it to the monitor.
- Step 4 : Use your bar code printer, print out all the value (data values are shown on the monitor.) Into **CODE 39** label.
- Step 5 : Scan the printed label form up to down sequentially with the scanner which is need to program..



.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

REMARK:

1. All strings are in upper cases.
2. All Cloning string which printed into labels should same to what are shown on the monitor sequentially from 1st row to the end.
3. The CLONING MODE can be work in the Word, Note Pad Only.
4. The bar code of cloning label is Code 39 (No CDV).
5. Never edit data at first row (.A017\$). It is an enter gate for cloning.
6. You can adjust the cloning string's length by combined multiple strings into one or breaking one string to multiple strings starting from Second Row after "....". , Note: the length must be in the sequences of 4 (FOUR); Such as 4,8,12,16,20(MAX).
7. Be aware of do not omit to print the dot which should same exactly as what 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"...." forward. The length of the string should be in 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: **CAPSLOCK ON (FIXED).**
- 1.3. Reading Mode: **CONTINUOUS AUTO OFF.**

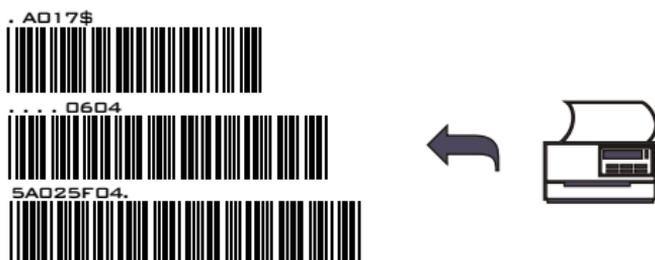
2. Setting Procedure:

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

3. Scan **CLONING MODE.(FIGURE 1).** All parameter's will be converted into alphanumeric, and throw to the monitor.



4. Print the result of the monitor into bar codes with your printer. The Bar code should be printed into CODE39 format. The cloning string printed which into bar code will be the EZ cloning Manual.

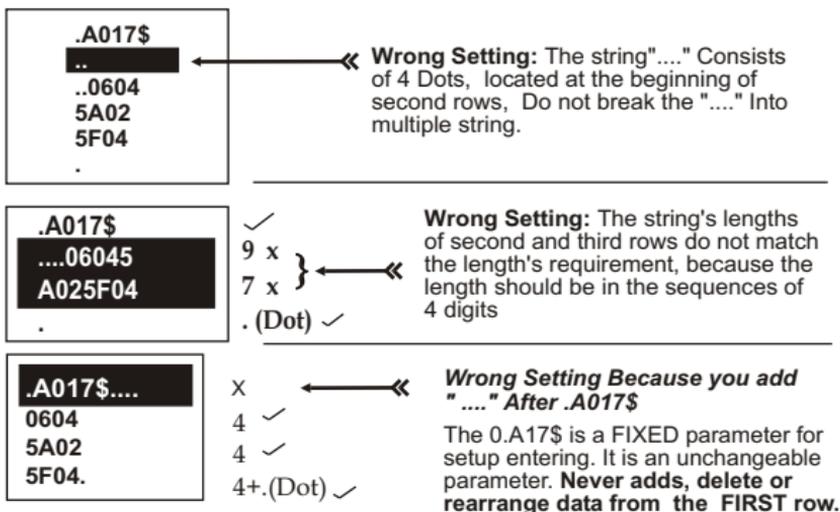


5. scan these labels with any one of the scanners that you would like to programme with same setting function as well as cloning, scan it from first row to second and so on one by one, you should scan it from up to down in sequences.

RIGHT OF SETTING



WRONG OF SETTING

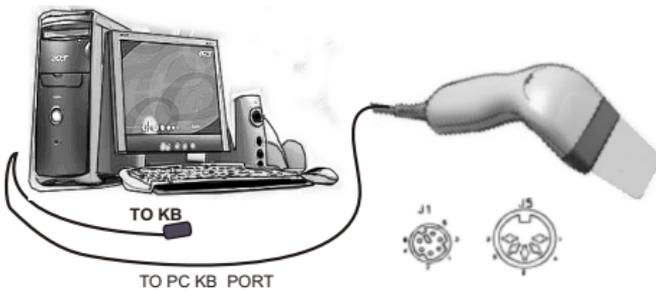


GETTING STARTED

HOW TO FIX THE SCANNER TO TERMINAL

KEYBOARD WEDGE

1. Turn off the power of a terminal / computer / notebook..
2. Disconnected the cable from the terminal / computer
3. Connect an appropriate keyboard cable to the scanner and to the terminal.
4. Turn on the terminal / computer,
5. The scanner will beep a tone after connection.
6. Set the scanner to KEYBOARD interface by referring to GROUP 1 (Interfaces Selections).
7. Scanner beep a tone for complete setting.
8. Scan any bar codes to ensure, see if any data show on the monitor.
9. END.

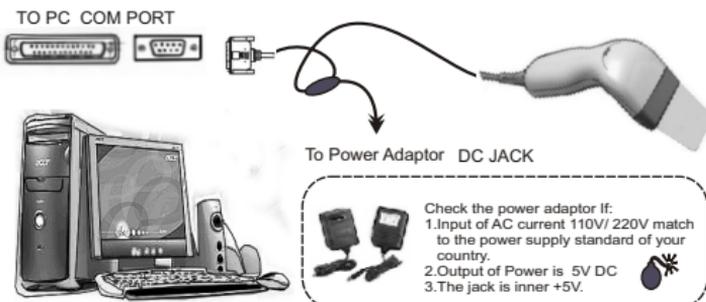


Rs232 INTERFACES

1. Turn off power to the terminal / computer.
- 2.. Connect the appropriate RS232 cable to the scanner and Computer.
- 3 Connect an appropriate power adaptor to the power cord of the cable.
- 4 Turn on the terminal / computer, .
- 5 . Plug in the Power Adaptor's to scanner's Power Jack.
6. Scanner will beep a sound for the connection.
7. Set the scanner to RS232 interface with Group 1 (Interfaces Selection) .
8. Set Rs232 Protocol: Baud Rate, Stop Bits, Handshaking, Data Bits& parity.
9. Scan any bar code, check if any data show on monitor?
- 10.END

REMARK:

- 1.Before plugging the power adaptor to the scanner, Please check if the Voltage, Power Consumption, Inner and outer DC Jack's Position of the Power Adaptor is right, otherwise, your carelessness will result in the serious damage for scanner / terminal / Computer
- 2.Please make sure the PROTOCOLcommunication setting of the scanner like Baud Rate, Data Bits, Parity, Hanshaking MUST match to terminal / Computer RS232 setting, otherwise, no any data will be transmitted..



USB Interface

The USB Interfaces supported is compatible to Apple MAC series / later PCs and Window 98, Window 2000, Window Me, Window XP.

1. Turn off power to the terminal / computer
2. Disconnected the cable the terminal/ computer.
3. Connect an USB cable to the scanner and to the terminal/ Computer,
4. The scanner will beep a tone for the connection,
5. The Computer will detect the USB Driver automatically.
6. If you are the first USB user, please Installed USB driver step by step carefully by the Instructions of the systems (1st Installer)
7. Set Interfaces Selection to Keyboard/USB.
8. Scanner will beep a Tone after Interfaces selections.,
9. Scan any bar codes, check if any data are output to monitor.
10. END.

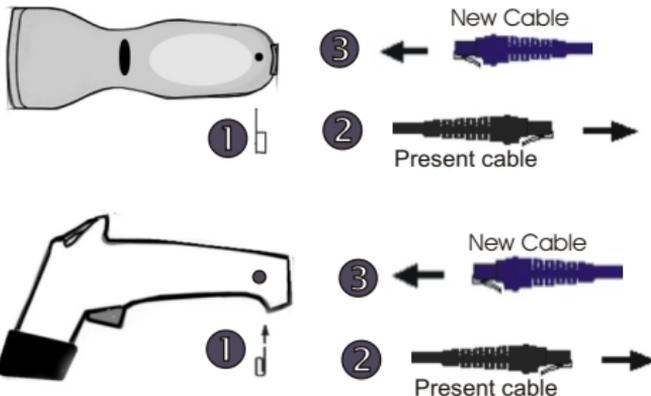


HOW TO CHANGE A CABLE

All scanners are designed at the convenience for Easy Interfaces Conversion, Most scanners' support for TTL, Wand Emulation, Keyboard, RS232, Macs ADD, USB interfaces. If you would like to change an interface of scanners from one to another, all you have to do is simply change a cable. Please follow the instruction as follow:

1. Insert a pin to the hole, 2. releases the cable simultaneously,
3. Plug in the new cable which required.

After changes to a new cable, you MUST reset the Interface Selections. For the symptom, please refer to the trouble of EZ Troubleshooting.)



HOW TO SETUP THE PARAMETER

EZ One Shot[®] Setting Procedure.

How do you program a scanner with this manual?

1. Aim the scanner directly to the bar code (function/ parameter) you want to set,
 - 1.1. Then you will hear TWO beep sounds, mean the NEW parameter is defined or updated into the memory processor.
 - 1.2. Thus, the whole set up procedure is over.



DEFAULT
Setting code



2. Most programming procedures need only One Shot Setting excepts : **Preamble, Postamble, Min / Max Length, Accuracy Adjustment. Set A Data (Insert data between Two Codabar : CX-Codabar, ABC Codabar, Codabar Coupling) , Define EAN128.** (See related pages for detail instructions). The are shown as follow:

2.1.Preamble / Postamble (Max 16 digits).

Scan CLR PRE/POSTAMBLE Scan PREAMBLE/ POSTAMBLE
>>>> Scan any alphanumeric from Full ASCII Table from
Group 32 ~Group40. >>>> Scan PREAMBLE or POSTAMBLE.

2.2.Min Length / Max Length:

Scan MIN LENGTH or MAX LENGTH >>>> Scan TWO digits number
from Appendix 1. (next pages to the related setting pages) >>>>
Scan MIN LENGTH or MAX LENGTH.

2.3.Accuracy Adjustment:

Scan ACCURACY ADJUSTMENT >>>> Scan One digit number
from Numeric Table from APPENDIX 1 >>>> Scan ACCURACY
ADJUSTMENT.

2.4.Customer configuration ID -- (Example: Code 39)

Scan Code39 Set ID from Group8 ~ Group9 >>>> Scan alphanumeric
(Max TWO digits) of FULL ASCII (Code 39) Table from Group32 ~
Group40. >>>> Scan Code39 Set ID from Group8.

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

Scan Set A Data. >>>> Scan any alphanumeric data (Max ONE digit)
from FULL ASCII (Code 39) Table from Group32 ~ Group 40 >>>>
Scan Set A Data.

2.6 REMARK:

- 2.6.1. Most setting procedures of above-mentioned need TRIPLE setting.
- 2.6.2. Scanners will beep three rapid beeps "Ti", "Ti", "Ti" to remind incomplete of Setting, please go on to complete the setting.
- 2.6.3. If you make a mistake, forget where the steps to exit, Scan Reset (. P023\$) at below for resetting.

RESET



3. SYMBOL AND ABBREVIATION:

3.1. DEFAULT Setting:

All Default's Parameters are indicated in bold type and underlined Characters. The Font of the Characters is ARIAL BLACK.

3.2. CD = Check Digits.

3.3. CDV = Check Digits Verification.

-- GROUP 1 --

INTERFACES SELECTION, COMPUTER TYPE, DEFAULT.

DEFAULT



PC- AT



MAC ADB

COMPUTER TYPE



PC-XT



NOTEBOOK*

SYMPTOMS	SOLUTION
Scanners perform well as usual, but there is no any output show on the Computer's monitor while the scanner is reading a bar code.	1.Unplugged the cable from the computer, 2.Replug in the cable,set the scanner to the exact Type of Computer immediately.

Cautions: Please set to right Computer Type when you change a terminal

*** If Notebook is On, scanner operate with No external keyboard**



KEYBOARD& USB



WAND

INTERFACES SELECTION



RS485



RS232

SYMPTOMS	SOLUTION
The scanner will sound a beep then the LED light turns off, no wonder how many time you push the switch button, the scanner still cannot work properly, LED light will not light, seems that it has been seriously damaged.	1.Please Unplugged the cable from the computer. 2.Replug in the cable, and set the scanner to the right interfaces with the manual immediately.

***Most scanners are designed with the flexibility for easy Interfaces changing. You can change an interface of a scanner from one to another just simply change a cable. Please do not forget to set the scanner to the interfaces that matched to the cable..**

-- GROUP 2 --

READING MODE SETTING

. F005\$



CONTINUOUS MODE

- * LED is always on. ,
- * The trigger is functionless eternally if Continuous Mode on.

. F001\$



FLASH MODE

- * LED is always on if bar codes close to the scanner, and turns to flashing when there is no any bar code approaching after 60 sec.
- * Trigger is in function.

. F002\$



TRIGGER MODE

- * The LED will be switched on if switch button is triggered.
- * The LED will be switched off when the switch button is released.

. F006\$



CONTINUOUS AUTO OFF

- * LED is always on when switch is pressed . (Switch is no function when LED on)
- * LED will be switched off automatically when there is no bar Code approaching approximately after 60 Sec. .

. F003\$



TOGGLE MODE

- * This function works as well as trigger Mode, but "GOOD READ" beeps after encoding.

. F007\$



*AUTO SENSING MODE

- * If Auto-Sensing (Triggerless.) is on, LED will be turned off if the scanner does not detect for a bar codes..
- * LED is lighted up automatically while a bar code is detected.

. F008\$



*ULTRAVIOLET MODE

- * If an Ultraviolet Mode is on, Ultraviolet light will be lighted up (Continuously.).
- * The Ultraviolet will be turned off if ONE push of a trigger, and back to the mode that you left last.

. F004\$



TEST MODE

- * Factory Test Scanning

REMARK:

- 1.For extends the scanner's life time, Please set the scanner into Trigger or Continuous Auto Of Mode.
- 2 Be informed that only few models support for Auto-Sensing Mode or Ultraviolet Mode.
- 3.Please prints out the Ultraviolet Mode (.F004\$) with A Bar code printers, put the Ultraviolet Setting code near the working station, Scan Ultraviolet if you need it,
- 4.Ultraviolet Mode Converse - Press the trigger button, The reading mode will swift from Ultraviolet Mode to the Reading Mode that you left last.

* Autosensing Mode and Ultraviolet Mode are available only for certain Model.

-- GROUP 3 --

CHECK VERSION, BEEP TONE ,CAPLOCK MODE

BEEP TONE MODE

. F012\$



OFF

. F014\$



BEEP HIGH

. F016\$



BEEP HIGH--LOW

. F013\$



BEEP MEDIUM

. F015\$



BEEP LOW--HIGH

. F017\$



BEEP LOW

CHECK VERSION

. A007\$



CHECK VERSION

CAPITAL LOCK MODE

. A005\$



CAPLOCK OFF

. A006\$



CAPLOCK ON (FIXED)

. A004\$



CAPLOCK ON

REMARK

If CAPLOCK ON (FIXED) is on, The scanner will sent the Charactor in Capital only, but CODABAR are exeptional. If ABCD/ABCD, abcd/abcd, ABCD/TN*E, abcd/tn*e are on, they work independently according with their rules..

-- GROUP 4 --

PREAMBLE & POSTAMBLE.

PREAMBLE & POSTAMBLE (PREFIX AND SUFFIX)



EXAMPLE:

PREAMBLE String is "#"
POSTAMBLE String is "\$"

SETTING PROCEDURE

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

REMARK:

A. PREAMBLE (PREFIX).

- A1. What is PREAMBLE , Preamble means user can add any data*** in front of a bar code.
- A2. MAX input digit (16 digit) .
- A3. Default Value : None

B. POSTAMBLE (SUFFIX).

- B1. What is POSTAMBLE , Postamble means user can add any data*** after a bar code,
- B2. MAX input digit (16 digit) .
- B3. Default Value : None

*** The Data can be any alphanumeric data from Group 32 ~ Group 42. (Full ASCII Table (Code 39 Table)).

C. FORMAT / STRUCTURE OF PREAMBLE & POSTAMBLE

- (xxxx + KKK + ddddddd + yyyy)
- C.1.xxxx = Preamble (string/ alphanumeric / Function code).
 - C.2.KKK = Code ID
 - C.3.yyyy = Postamble.(String/ alphanumeric / Function code).
 - C.4.dddddd = Barcode

-- GROUP 5 --

ACCURACY ADJUSTMENT



ACCURACY ADJUSTMENT



Accuracy Adjustment aims to assure for getting more reliable decoded output. The accurate decoded output can be adjusted by customer as follow. The higher the numbers is set mean more accurate output will be. The higher the number is set,

SETTING PROCEDURE

STEP 1 : Scan : ACCURACY ADJUSTMENT.

STEP 2 : Scan : ONE digit Number (1-9) f rom bar code above.

STEP 3 : Scan : ACCURACY ADJUSTMENT.

RESET



** Scanner beep " Ti", " Ti", " Ti", to remind setting incomplete.

** If you made a mistake, do not remember which step to be accomplished, Scan RESET for resetting.

-- GROUP 6 --

ENABLE AND DIABLE CODE ID

ENABLE CODE ID

. A008\$



FACTORY ID ON

. A014\$



AIM ID ON

. A015\$



SET ID -ON

. A009\$



DISABLE CODE ID

REMARK:

1. Among those Code ID, only ONE type code ID will be sent.
2. Code ID is located at the position before the bar code data and after the preamble, The Structures of data will be show as follow:

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

145287

JE0



Preamble
145287

CODE ID
AIM ID : JE0

BARCODE / DATA
EAN 13 +5

OUTPUT : 145287]E0456398712345312411

-- GROUP 7 --

SYBBOLOGIES CODE ID IDENTIFIER, SET ID

SYBBOLOGIES CODE ID IDENTIFIER

SYBBOLOGIES	Factory ID	AIM ID	SYBBOLOGIES	Factory ID	AIM ID
MSI	O	JM0	CODABAR	N	JF0
EAN 8	S	JE0	DELTA Code	G	
UPC-E	E	JE0	LABEL Code	C	
UPC-A	A	JE0	UK PLESSY	P	JPO
EAN 13	F	JE0	MATRIX 2 OF 5	Y	JX0
Code 93	L	JG0	FULL ASCII Code 39	D	JA0
Code 11	J	JH0	STANDARD Code 39	M	JA0
TELEPEN	U	JB0	IATA 2 of 5	R	JR0
EAN 128	T	JCI	INDUSTRIAL 2 OF 5 (Code 2 of 5)	V	JS0
Code 128	K	JCO	China Post Code (Toshiba Code)	H	JX0
Code 32 (Code 39 PARAF)	B	JX0	INTERLEAVED 2 OF 5	I	JIO

SET ID - SETTING PROCEDURES

1. Set ID need TRIPLE scanning for setting: The procedures are
Step 1: Scan Bar Code (Set ID)
Step 2: Scan (1 OR 2) Digit of Full ASCII Table (Group 32-40)
Step 3: Scan: Bar Code (Set ID).

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

MSI :

Step1: Scan MSI Set ID (Group 9).

Step2: "A" from Group 35.

Step3: Scan MSI Set ID (Group 9).

Code 93:

Step1: Scan Code 93 Set ID (Group 9).

Step2: "G" from Group 36, Scan "9" from Group 40..

Step3: Scan Code 93 Set ID (Group 9).

2. You can Set (Code) ID with alphanumeric data from FULL ASCII (Code 39) Table (GROUP32 ~ GROUP40.)
4. Length's of Set ID are limited to TWO digits. You can input either ONE digit or TWO digit as code ID, if one digit ID is set, the output Code ID of the bar code will be in one digit only, If TWO digits characters are set, The Code ID will be in TWO digits.
5. Only one type Code ID will be sent, you have to choose which type Code ID you want the scanner to send.

-- GROUP 8 --

CODE ID CONFIGURATION: SET ID

. P001\$



EAN 13 Set ID

. P002\$



EAN 8- Set ID

. P003\$



UPC E Set ID

. P004\$



UPC A Set ID

. P005\$



CODE 39 Set ID

. P013\$



Code 93 Set ID

. P007\$



Codabar Set ID

. P021\$



IATA Set ID

. P010\$



Code 128 Set ID

. P016\$



EAN128 Set ID

. P022\$



Telepen Set ID

. P009\$



Code 11 Set ID

. P011\$



Code 32 Set ID

-- GROUP 9 --

CODE ID CONFIGURATION: SET ID

. P012\$



China Post Code
[TOSHIBA Code] Set ID

. P014\$



MSI Code Set ID

. P015\$



UK Plessy Set ID

. P017\$



Matrix 2 of 5 Set ID

. P006\$



Interleaved 2 of 5
Set ID

. P018\$



Industrial 2 of 5 Set ID

. P008\$



Full ASCLL Code39
Set ID

. P019\$



Delta Code Set ID
(Reserved)

. P020\$



LABEL Code Set ID
(Reserved)

RESET

. P023\$



- ** All Set Code ID need TRIPLE scanning for setting.
- ** A beep " Ti", " Ti", " Ti" to remind of incomplete setting.
- ** If you make a mistake, forget where the steps to exit,
Scan Reset (.P023\$) at below for resetting.

-- GROUP 10 --

DELAY BETWEEN BLOCKS AND CHARACTERS

INTERBLOCK DELAY

. B001\$



0mS

. B002\$



10mS

. B003\$



50mS

. B004\$



100mS

. B005\$



200mS

. B006\$



500mS

INTERCHARACTER DELAY

. B010\$



140uS

. B011\$



500uS

. B012\$



1mS

. B013\$



4mS

. B014\$



16mS

-- GROUP 11 --

TERMINATOR AND KEYBOARD LAYOUT

<p>. D010\$ NONE</p>	<p>TER . D013\$ <u>CR+LF</u></p>
<p>. D011\$ LF</p>	<p>. D014\$ TAB</p>
<p>. D012\$ <u>CR</u></p>	<p>. D015\$ SPACE</p>
	<p>. D016\$ ESC</p>

<p>KEYBOARD LAYOUT . C013\$ SPANISH</p>	<p>. C010\$ <u>ENGLISH(USA)</u></p>
<p>. C011\$ GERMAN</p>	<p>. C014\$ ITALIAN</p>
<p>. C012\$ FRENCH</p>	<p>. C015\$ UNIVERSAL CODE</p>
	<p>. C016\$ SWISS</p>

REMARK : Default parameters of the Terminator.

1. The Terminator default parameter of **Keyboard Interfaces** is **CR**.
2. The Terminator default parameter of **USB Interfaces** is **CR**
3. The Terminator default parameter of **RS232 Interfaces** is **CR+LF**.

-- GROUP 12 --
Rs232: BAUD RATE,
STOP BITS, 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

STOP BITS

. E016\$

1 STOP BITS

. E017\$

2 STOP BITS

-- GROUP 13--

Rs232 : HANSHAKING

HANSHAKING

. E018\$



NONE

. E019\$



CTS/RTS

. E020\$



Xon / X off

-- GROUP 14 --

WAND EMULATION PARAMETER SETTING

LEVEL DURATION (MINI WIDTH

. D001\$



200us

. D002\$



600us

POLARITY OF IDLE CONDITION

. D003\$



LOW

. D004\$



HIGH

OUTPUT OF WAND EMULATION

. D005\$



Bar High / Space Low

. D006\$



Bar Low / Space High

WAVE FORM

. D007\$



PEN TYPE

. D008\$



FULL ASCII CODE 39

-- GROUP 15 --

ENABLE and DISABLE SYMBOLOGIES

ENABLE

. A002\$



ENABLE ALL CODE

. K010\$



CODE 32

. K001\$



CHINA POSTAL CODE

. L010\$



UK PLESSY CODE

. N001\$



INDUSTRIAL 2 OF 5

. M010\$



MATRIX 2 OF 5

. J001\$



INTERLEAVED 2 OF 5

. J010\$



CODE 128

. I001\$



CODABAR

. L014\$



TELEPEN

DISABLE

. 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

-- GROUP 16 --

ENABLE and DISABLE SYMBOLOGIES

ENABLE

. H001\$



UPC-A

. H007\$



UPC-E

. H019\$



EAN -8

. H013\$



EAN -13

. L001\$



MSI

. G008\$



CODE 39

. I010\$



CODE 11

. G010\$



CODE 93

. M001\$



EAN-128

. N017\$



IATA

DISABLE

. 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 --

SYMBOLOGIES FORMATTING: CHINA POST CODE (TOSHIBA CODE), CODE 32

. K001\$



ENABLE

. K002\$



DISABLE

. K003\$



DISABLE CDV

. K004\$



CDV & SEND CD

CHINA POSTAL CO [TOSHIBA CODE]

. K005\$



CDV & NOT SEND CD

. K006\$



MIN LENGTH (11)

. K007\$



MAX LENGTH (48)

. K010\$



ENABLE

. K011\$



DISABLE

. K012\$



LEADING SEND

CODE 32

. K013\$



LEADING NOT SEND

. K014\$



TAILING SEND

. K015\$



TAILING NOT SEND

APPENDIX 1

FULL ASCII (Code 39) NUMERIC TABLE



SETTING PROCEDURE

MIN / MAX LENGTH (Default Length)

- STEP 1 - Scan: MIN / MAX LENGTH
STEP 2 - Scan : " TWO DIGIT " Number
from Appendix 1.
STEP 3 - Scan: MIN / MAX LENGTH.

Be noticed that the scanner will only read a bar code within the length's limit. Any bar codes which the length out of limitation range will not be read. The Default's lengths of symbologies are marked clearly at the column after Min/Max Length.

- 1.Min Length & Max Lengths need Triple Setting.
- 2.If any setting steps are not accomplished as above mentioned setting procedure, the scanner will beep a long beep " Ti", "Ti", "Ti" to remind you. Please go on to complete the setting.
- 3.Suppose you made a mistake, or lose your place while setting, scans RESET (. P023\$) at below for resetting.

RESET



-- GROUP 18 --

SYMBOLOGIES : 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 1

FULL ASCII (Code 39) NUMERIC TABLE



SETTING PROCEDURE

MIN / MAX LENGTH (Default Length)

- STEP 1 - Scan: MIN / MAX LENGTH
STEP 2 - Scan : " TWO DIGIT " Number
from Appendix 1.
STEP 3 - Scan: MIN / MAX LENGTH.

Be noticed that the scanner will only read a bar code within the length's limit. Any bar codes which the length out of limitation range will not be read. The Default's lengths of symbologies are marked clearly at the column after Min/Max Length.

- 1.Min Length & Max Lengths need Triple Setting.
- 2.If any setting steps are not accomplished as above mentioned setting procedure, the scanner will beep a long beep " Ti", "Ti", "Ti" to remind you. Please go on to complete the setting.
- 3.Suppose you made a mistake, or lose your place while setting, scans RESET (. P023\$) at below for resetting.

RESET



-- GROUP 19 --

SYMBOLOGIES FORMATTING: CODE IATA , CODE 93, TELEPEN.

. NO17\$



ENABLE

. NO18\$



DISABLE

. NO19\$



DISABLE CDV

. NO20\$



CDV & SEND CD

IATA

. NO21\$



CDV & NOT SEND CDV

. NO22\$



MIN LENGTH (6)

. NO23\$



MAX LENGTH (48)

. GO10\$



ENABLE

. GO11\$



DISABLE

CODE 93

. GO12\$



MIN LENGTH (6)

. GO13\$



MAX LENGTH (48)

. LO14\$



ENABLE TELEPEN

. LO15\$



DISABLE TELEPEN

TELEPEN

. LO20\$



TELEPEN ASCII

. LO21\$



TELEPEN NUMBER

APPENDIX 1

FULL ASCII (Code 39) NUMERIC TABLE



SETTING PROCEDURE

MIN / MAX LENGTH (Default Length)

- STEP 1 - Scan: MIN / MAX LENGTH
STEP 2 - Scan : " TWO DIGIT " Number
from Appendix 1.
STEP 3 - Scan: MIN / MAX LENGTH.

Be noticed that the scanner will only read a bar code within the length's limit. Any bar codes which the length out of limitation range will not be read. The Default's lengths of symbologies are marked clearly at the column after Min/Max Length.

- 1.Min Length & Max Lengths need Triple Setting.
- 2.If any setting steps are not accomplished as above mentioned setting procedure, the scanner will beep a long beep " Ti", "Ti", "Ti" to remind you. Please go on to complete the setting.
- 3.Suppose you made a mistake, or lose your place while setting, scans RESET (. P023\$) at below for resetting.

RESET



-- GROUP 20 --

SYMBOLOGIES FORMATTING: INTERLEAVED 2 OF 5, CODE 11.

. J001\$



ENABLE

. J002\$



DISABLE

. J003\$



DISABLE CDV

. J004\$



CDV & SEND CD

. J005\$



CDV & NOT SEND CDV

INTERLEAVE 2 OF 5

. J008\$



First Digit Suppressed

. J009\$



Last Digit Suppressed

. J006\$



MIN LENGTH (6)

. J007\$



MAX LENGTH (48)

. I 010\$



ENABLE

. I 011\$



DISABLE

. I 012\$



DISABLE CDV

. I 013\$



CDV & SEND CD

. I 042\$



CDV & SEND CD
(1 DIGIT)

CODE 11

. I 043\$



CDV & SEND CD
(2 DIGITS)

. I 014\$



CDV & NOT SEND CD

. I 015\$



MIN LENGTH (6)

. I 016\$



MAX LENGTH (32)

APPENDIX 1

FULL ASCII (Code 39) NUMERIC TABLE



SETTING PROCEDURE

MIN / MAX LENGTH (Default Length)

- STEP 1 - Scan: MIN / MAX LENGTH
STEP 2 - Scan : " TWO DIGIT " Number
from Appendix 1.
STEP 3 - Scan: MIN / MAX LENGTH.

Be noticed that the scanner will only read a bar code within the length's limit. Any bar codes which the length out of limitation range will not be read. The Default's lengths of symbologies are marked clearly at the column after Min/Max Length.

- 1.Min Length & Max Lengths need Triple Setting.
- 2.If any setting steps are not accomplished as above mentioned setting procedure, the scanner will beep a long beep " Ti", "Ti", "Ti" to remind you. Please go on to complete the setting.
- 3.Suppose you made a mistake, or lose your place while setting, scans RESET (. P023\$) at below for resetting.

RESET



-- GROUP 21 --

SYMBOLOLOGIES FORMATTING: 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: abc/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 1

FULL ASCII (Code 39) NUMERIC TABLE



SETTING PROCEDURE

MIN / MAX LENGTH (Default Length)

- STEP 1 - Scan: MIN / MAX LENGTH
STEP 2 - Scan : " TWO DIGIT " Number
from Appendix 1.
STEP 3 - Scan: MIN / MAX LENGTH.

Be noticed that the scanner will only read a bar code within the length's limit. Any bar codes which the length out of limitation range will not be read. The Default's lengths of symbologies are marked clearly at the column after Min/Max Length.

- 1.Min Length & Max Lengths need Triple Setting.
- 2.If any setting steps are not accomplished as above mentioned setting procedure, the scanner will beep a long beep " Ti", "Ti", "Ti" to remind you. Please go on to complete the setting.
- 3.Suppose you made a mistake, or lose your place while setting, scans RESET (. P023\$) at below for resetting.

RESET



-- GROUP 22 --

SYMBOLOGIES FORMATTING: ABC-CODABAR, CX- CODABAR

. I 017\$



ON

. I 018\$



OFF

. I 035\$



SET INSERT DATA*

ABC- CODABAR

. I 039\$



INSERT DATA -ON

. I 036\$



INSERT DATA- OFF

**The data can be any alphanumerics of FULL ASCII Table (GROUP 32- 40)*

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 the 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's are not transmitted.

. I 022\$



ON

. I 023\$



OFF

. I 037\$



SET INSERT DATA*

CX CODE- CODABA

. I 040\$



INSERT DATA -ON

. I 038\$



INSERT DATA- OFF

**The data can be any alphanumerics of FULL ASCII Table (GROUP 32- 40)*

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 23--

SYMBOLOGIES FORMATING: CODABAR COUPLING, ADJACENT MUST ON .



ON



OFF



SET INSERT DATA*

CODABAR COUPLING



INSERT DATA -ON



INSERT DATA- OFF

ABC-CODABAR and CX-CODABAR code have certain rules of Stop Character of first bar code and the stop character of Second bar code while conjunction, but CODABAR COUPLING does not have any limitation of that, means that while CODABAR COUPLING is on, You can couple whatever TWO Codabar into one data set of data without any limitation between the Stop character of first bar code and the Start character of Second bar code. Both bar code's Start and stop will be sent.



ON



OFF

ADJACENT REQUIRE

If CODABAR ADJACENT is set to on, the scanner read-only Couple (TWO) CODABAR. Codabar which is in " Singer" will not be able to read.

REMARK:

- 1.You can enable both ABC-Codabar and CX-Codabar together except Codabar-Coupling.
- 2.If ABC-Codabar , CX-Codabar, Codabar-Coupling are on together, the scanner will read only Codabar Coupling, either ABC- Codabar or CX-Codabar will be considered as Coupling-Codabar format.

SETTING PROCEDURE - SET INSERT DATA

- Step 1- Scan " Set Insert Data " .
- Step 2- Scan any data from Full ASCII (Code39) table. The data can be any characters or alphanumeric from Group 32-40)
- Step 3- Scan " Set Insert Data " .

RESET



.If any setting steps are not accomplished as above mentioned setting procedure, the scanner will beep a long beep " Ti", "Ti", "Ti" to remind you. Please go on to complete the setting OR Scan RESET for resetting.

**The data can be any alphanumerics of FULL ASCII Table (GROUP 32- 40)*

-- GROUP 24 --

SYMBOLOGIES FORMATTING: CODE 128, STANDARD CODE39, FULL ASCII CODE 39.

STANDARD CODE 39 & FULL ASCII 39

. G008\$



ENABLE

. G009\$



DISABLE

. G001\$



FULL ASCII CODE 39

ENABLE

. G002\$



FULL ASCII CODE 39

DISABLE

. G014\$



START / STOP - SEND

. G003\$



DISABLE CDV

. G004\$



CDV & SEND CD

. G005\$



CDV & NOT SEND CD

. G006\$



MIN LENGTH (1)

. G007\$



MAX LENGTH (48)

. G015\$



START / STOP Not SEND

REMARK:

The DEFAULT parameter of Code 39 is Standard Code 39 .
If you enable Full ASCII Code 39, the Standard Code 39 is
disabled automatically.

CODE 128

. J010\$



ENABLE

. J011\$



DISABLE

. J012\$



MIN LENGTH (5)

. J013\$



MAX LENGTH (48)

APPENDIX 1

FULL ASCII (Code 39) NUMERIC TABLE



SETTING PROCEDURE

MIN / MAX LENGTH (Default Length)

- STEP 1 - Scan: MIN / MAX LENGTH
STEP 2 - Scan : " TWO DIGIT " Number
from Appendix 1.
STEP 3 - Scan: MIN / MAX LENGTH.

Be noticed that the scanner will only read a bar code within the length's limit. Any bar codes which the length out of limitation range will not be read. The Default's lengths of symbologies are marked clearly at the column after Min/Max Length.

- 1.Min Length & Max Lengths need Triple Setting.
- 2.If any setting steps are not accomplished as above mentioned setting procedure, the scanner will beep a long beep " Ti", "Ti", "Ti" to remind you. Please go on to complete the setting.
- 3.Suppose you made a mistake, or lose your place while setting, scans RESET (. P023\$) at below for resetting.

RESET



-- GROUP 25 --

**SYMBOLOGIES FORMATTING:
INDUSTRIAL 2 OF 5, MATRIX 2 OF 5**

. N001\$



ENABLE

. N002\$



DISABLE

. N003\$



DISABLE CDV

. N004\$



CDV & SEND CD

INDUSTRIAL 2 OF 5

. N005\$



CDV & NOT SEND CD

. N006\$



MIN LENGTH (6)

. N007\$



MAX LENGTH (48)

. M010\$



ENABLE

. M011\$



DISABLE

. M012\$



DISABLE CDV

. M013\$



CDV & SEND CD

MATRIX 2 OF 5

. M014\$



CDV & NOT SEND CD

. M015\$



MIN LENGTH (6)

. M016\$



MAX LENGTH (48)

APPENDIX 1

FULL ASCII (Code 39) NUMERIC TABLE



SETTING PROCEDURE

MIN / MAX LENGTH (Default Length)

- STEP 1 - Scan: MIN / MAX LENGTH
STEP 2 - Scan : " TWO DIGIT " Number
from Appendix 1.
STEP 3 - Scan: MIN / MAX LENGTH.

Be noticed that the scanner will only read a bar code within the length's limit. Any bar codes which the length out of limitation range will not be read. The Default's lengths of symbologies are marked clearly at the column after Min/Max Length.

- 1.Min Length & Max Lengths need Triple Setting.
- 2.If any setting steps are not accomplished as above mentioned setting procedure, the scanner will beep a long beep " Ti", "Ti", "Ti" to remind you. Please go on to complete the setting.
- 3.Suppose you made a mistake, or lose your place while setting, scans RESET (. P023\$) at below for resetting.

RESET



-- GROUP 26 --

SYMBOLOGIES FORMATTING: UPC-E

. H007\$



ENABLE

. H009\$



LEAD DIGIT SEND

. H010\$



LEAD DIGIT SEND

UPC-E

. H008\$



DISABLE

. H011\$



CHECK DIGIT SEND

. H012\$



CHECK DIGIT NO SEND

. H037\$



+5 ON

. H038\$



+ 5 OFF

. H039\$



+2 ON

. H040\$



+ 2 OFF

ADD ON SUPPLEMEN

. H047\$



ADD A SPACE ON

. H048\$



ADD A SPACE OFF

. H055\$



ADDENDA REQUIRED OFF

. H056\$



ADDENDA REQUIRED ON

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

-- GROUP 27 --

SYMBOLOGIES FORMATTING: UPC-E SYSTEM NUMBER, UPC-E, UPC-A & EAN 8 EXPAND.

UPC E0



UPC E1



REMARK:

MOST UPC Barcodes lead with 0 number systems, For these bar codes use UPC E(0) Selection, If the barcodes lead with 1 number systems, use UPC(E1) selection.

UPC-E EXPAND TO UPC-A



UPC-A EXPAND TO E EAN -13



RESERVED



REMARK:

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

-- GROUP 28 --

SYMBOLOGIES FORMATTING: UPC -A



ENABLE



DISABLE



LEAD DIGIT SEND

UPC- A



LEAD DIGIT NO SEND



CHECK DIGIT SEND



CHECK DIGIT NO SEND



+5 ON



+ 5 OFF



+2 ON



+ 2 OFF

ADD ON SUPPLEMEN



ADD A SPACE ON



ADD A SPACE OFF



ADDENDA REQUIRED OFF



ADDENDA REQUIRED ON

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

-- GROUP 29 --

SYMBOLOGIES FORMATTING: EAN 8

EAN-8

. H019\$



ENABLE

. H020\$



DISABLE

. H021\$



LEAD DIGIT SEND

. H022\$



LEAD DIGIT NO SEND

. H023\$



CHECK DIGIT SEND

. H024\$



CHECK DIGIT NO SEND

. H029\$



+ 5 ON

. H030\$



+ 5 OFF

. H031\$



+ 2 ON

. H032\$



+ 2 OFF

ADD ON SUPPLEME

. H043\$



ADD A SPACE ON

. H044\$



ADD A SPACE OFF

. H061\$



ADDENDA REQUIRED OFF

. H062\$



ADDENDA REQUIRED ON

REMARK: If **ADDENDA REQUIRED** is set to ON, The scanner will only read EAN-8 bar code which has addenda.

-- GROUP 30 --

SYMBOLOGIES FORMATTING: EAN13

. H013\$



ENABLE

. H014\$



DISABLE

. H015\$



LEAD DIGIT SEND

EAN-13

. H016\$



LEAD DIGIT NO SEND

. H017\$



CHECK DIGIT SEND

. H018\$



CHECK DIGIT NO SEND

. H025\$



+ 5 ON

. H026\$



+ 5 OFF

. H027\$



+ 2 ON

. H028\$



+ 2 OFF

ADD ON SUPPLEMEN

. H041\$



ADD A SPACE ON

. H042\$



ADD A SPACE OFF

. H057\$



ADDENDA REQUIRED OFF

. H058\$



ADDENDA REQUIRED ON

REMARK

1.If ADDENDA REQUIRED is set to ON, the scanner will only read EAN-13 bar code which has addenda; the EAN-13 bar codes that without addenda will not be read by Scanner.

2.Either ISBN or ISBN will be considered as an extension of EAN-13, codes, thus if you need ISSN or ISBN to read with Addenda, you must enable EAN13, and Addenda Required ON / OFF..

-- GROUP 31 --

SYMBOLOGIES FORMATTING: EAN/UCC-128

. M001\$



ENABLE

. M002\$



DISABLE

. M003\$



CODE ID ENABLE

. M004\$



CODE ID DISABLE

EAN/ UCC- 128

. M005\$



FUNC 1CHEAR SEND

. M006\$



FUNC 1 CHEAR NOT SEND

. M007\$



DEFINE EAN 128

REMARK :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 32- 40).

String format :

]CI	DATA CHARACTERS	<GS>	DATA CHARACTERS
-----	-----------------	------	-----------------

Setting Procedure:

STEP 1:Scan DEFINE EAN128. >>> STEP 2: Scan ASCII Code from FULL ASCII Table. >>> STEP 3: Scan DEFINE EAN128.

ISBN

. H049\$



ISBN ON

. H050\$



ISBN OFF

ISSN

. H051\$



ISSN ON

. H052\$



ISSN OFF

REMARK:

Both ISSN and ISBN are the extension code of EAN-13, If you want the scanner to read either ISSN or ISBN, you must Enable EAN13, otherwise the scanner will not able to read the ISSN or ISBN.

-- GROUP 32 --

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 33 --

FULL ASCII TABLE (CODE 39)

\$P

DLE

\$Q

DC1

\$R

DC2

\$S

DC3

\$T

DC4

\$U

NAK

\$V

SYN

\$W

ETB

\$X

CAN

\$Y

EM

\$Z

SUB

%A

ESC

%B

FS

%C

GS

%D

RS

-- GROUP 34 --

FULL ASCII TABLE (CODE 39)



-- GROUP 35 --

FULL ASCII TABLE (CODE 39)



-- GROUP 36 --

FULL ASCII TABLE (CODE 39)



G



I



K



L



N



P



R



T



H



J



M



O



Q



S



U

-- GROUP 37 --

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 38 --

FULL ASCII TABLE (CODE 39)

+E

e

+F

f

+G

g

+H

h

+I

i

+J

j

+K

k

+L

l

+M

m

+N

n

+O

o

+P

p

+Q

q

+R

r

+S

s

-- GROUP 39 --

FULL ASCII TABLE (CODE 39)



-- GROUP 40 --

FULL ASCII (CODE 39) NUMERIC TABLE



-- GROUP 41 --

FUNCTION CODE (CODE 39) FOR PC AT



-- GROUP 42 --

FUNCTION CODE (CODE 39) FOR PC AT

\$TQ



Right

\$TP



Left

\$TQ



Up

\$TR



Down

\$TS



Page Up

\$TT



Page Down

\$TU



Tab

\$TV



Back Tab

\$TW



Esc

\$TX



Enter

\$TY



BS

\$TZ



Ins

\$T%K



Del



-- GROUP 43 -- TROUBLE SHOOTING

The Decoder CCD scanner is a simple device to install and use. Therefore, most of the problems can be attribute to these areas: The troubleshooting process may follow simple procedures as below:



**INCORRECT CONFIGURATION SETUP
INCORRECT INTERFACES CONNECTION
POOR BAR CODE SYMBOL QUALITY.**

GENERAL PROCEDURES

1. First, make sure your scanner firmly connect with PC/ system and should emit one long beep afterward. When the trigger button is pressed, a flash red light should be visible.
2. Once the power is on, try to scan bar code samples at page: The scanner will " Good Read" Beep and "Good Read" Flash When the scanner is in default configuration.

if reading the bar code does not result in a " Good Read", then there was a problem with either the scanning technique or the interfaces configuration setting(Reset it to DEFAULT).

3. If the scanner can " GOOD " read, then proceed to check the interfaces cabling connections.

KEYBOARD INTERFACES PROBLEMS.

In general, Keyboard interface is trouble free, but there are some items to check if you are facing problems.

Do you have the correct cable?

Most computers use XT/AT compatible keyboard. Therefore, Select the proper cable for your computer.



-- GROUP 44 -- TROUBLE SHOOTING

Does the keyboard work.

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

Can your computer accept the data fast enough?

Computer's BIOS has a feature related to keyboard typing speed. Try to setup Intercharacter Delay' (page) to stimulate the effect of the keystroke speed.

Does Keyboard port supply enough power ?

Most notebook computers do not supply enough power to the scanner. The symptom is commonly visible by lower good read rate since there is no enough power to a support the scanning operation.

INTERFACE PROBLEMS

Are you using Wand Emulation mode with Code-39 output and is your decoder set up accordingly to accept Code-39 data?

Check the configuration setting of the decoded scanner and make sure your decoder can accept the bar code format.

The cable seems to connect properly but the scanner cannot send data to host computer.?

There are no industrial standards for scanner interfaces cables, even if they look alike and have similar connector. For example: cables for keyboard & Wand Emulation are similar, but they cannot be interchanged each other due to different Pin assignments. Be sure your cable attaches correctly to the matching connector.



-- GROUP 45 -- TROUBLE SHOOTING

CONFIGURATION SETUP

Are you setup to the Right Interfaces

1. Interface setting does not match with the right interface.
For instance you select keyboard cable, but you had set it to Rs232 or Wand Emulation.
2. Forget to set to right interface after cable changing..
For instance, you want to change Keyboard to RS232, you forget to set the interfaces to RS232 interface..

Symthom ---- (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

Is the proper symbology enabled?

Every bar code symbologies can be individually enabled and disabled. It is suggested to enable only those that will be used, thereby eliminating any misread by the scanning of other symbologies.

Do the select the bar code symbology configuration match the bar code?

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



-- GROUP 46 -- TROUBLE SHOOTING

POOR BAR CODE QUALITY

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

TOLERANCE OF BAR CODE

Bar codes may have a tolerance. Normally the tolerances are caused by Bar code software or of printer, a reputation high quality bar code software should be choose to generate bar codes.

If the printed bar codes have varied bias distortion of printing, the scanners will not recognise these bar codes.

Users are very difficult to get "Good Read" from a poor quality bar code with the unit unless they scan the symbol many times. As the quality of the symbol drops, the chances for the undetected error increase. A bar code (CDV) Check Digit Verification should be used to check the quality of the suspect symbols.

LABELS (PAPER & COLOR& PRINTER MACHINE)

Mostly, The light source of a bar code reader is RED, there are some restrictions for label printing, you should be very careful when choosing bar code printing material especially colour ink and paper. Sometimes, as the combination between colour of a label and colour of the ink, it will cause blindness for the scanner, as optics physical phenomenon, some colours should be avoided as it will cause the blindness for the scanner. Regarding this restriction, please consults with the experts for the detail.

Moreover, Bad quality of printing will also results in reading difficulties for the scanner, The bad printing may be caused by type of printer machines that you use. Please choose a professional and high quality bar code printer for label printing. For your advisory, please avoid printing the bar code with Dot Matrix and Inkjet printers which will result in the bad quality of printing.

Besides, the quality and condition of the Ink, Ribbon, Carbon, toners which are not very good condition will also result in the bad quality of bar code labels. Thus, please always check if the Ink, ribbon, Carbon toners of the printers are in good condition.

Finally, You should be very careful of choosing Bar code printing material. The printing material which with the shining surfaces will cause the reading difficulties for scanners, so please avoid using the shining material for bar code printing.

MT6262 CONTROL CODE LIST FOR RS232

NO	FUNCTION	KEYBOARD	ASCII CODE
1	SYSTEM RESET	ESC KEY	1BH
2	SET TO DEFAULT(FLASH MODE)	A,0 KEYS	41H,30H
3	SETUP NONE HANDSHAKING	A,1 KEYS	41H,31H
4	SETUP CTS/RTS HANDSHAKING	B,0 KEYS	42H,30H
5	SETUP Xon/Xoff HANDSHAKING	B,1 KEYS	42H,31H
6	UPCA CODE ENABLE	C,0 KEYS	43H,30H
7	UPCA CODE DISABLE	C,1 KEYS	43H,31H
8	I 2 of 5 CODE ENABLE	D,0 KEYS	44H,30H
9	I 2 of 5 CODE DISABLE	D,1 KEYS	44H,31H
10	FULL ASCII CODE 39 ENABLE	E,0 KEYS	45H,30H
11	FULL ASCII CODE 39 DISABLE	E,1 KEYS	45H,31H
12	CODE 93 ENABLE	F,0 KEYS	46H,30H
13	CODE 93 DISABLE	F,1 KEYS	46H,31H
14	CODABAR ENABLE	G,0 KEYS	47H,30H
15	CODABAR DISABLE	G,1 KEYS	47H,31H
16	CODE 128 ENABLE	H,0 KEYS	48H,30H
17	CODE 128 DISABLE	H,1 KEYS	48H,31H
18	CODE 11 ENABLE	I,0 KEYS	49H,30H
19	CODE 11 DISABLE	I,1 KEYS	49H,31H
20	CODE 32 ENABLE	J,0 KEYS	4AH,30H
21	CODE 32 DISABLE	J,1 KEYS	4AH,31H
22	EAN13 ENABLE	K,0 KEYS	4BH,30H
23	EAN13 DISABLE	K,1 KEYS	4BH,31H
24	UPCE ENABLE	L,0 KEYS	4CH,30H
25	UPCE DISABLE	L,1 KEYS	4CH,31H
26	EAN8 ENABLE	M,0 KEYS	4DH,30H
27	EAN8 DISABLE	M,1 KEYS	4DH,31H
28	CODE 39 ENABLE	N,0 KEYS	4EH,30H
29	CODE 39 DISABLE	N,1 KEYS	4EH, 31H
30	INDUSTRIAL 25 ENABLE	O,0 KEYS	4FH,30H
31	INDUSTRIAL 25 DIABLE	O,1 KEYS	4FH,31H
32	MATRIX 2 OF 5 ENABLE	P,0 KEYS	50H,30H
33	MATRIX 2 OF 5 DISABLE	P,1 KEYS	50H, 31H

SETTING PROCEDURE

- 1.The chart shown above is work for MT6262 Fixed Mount CCD bar code scanner setting only.
- 2.you can easy to set it through keyboard.
- 3.Setting procedure: for example

MATRIX 2 OF 5 ENABLE , KEYBOARD = P,0

SETTING PROCEDURE:

STEP 1: Press P of the keyboard..

STEP 2: Press 0 of the keyboard.