

Ez One Shot[®]

**BARCODE
SCANNER
USER'S
MANUAL**



DEFAULT



CHECK VERSION

Version:2007

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).

. A001\$



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.

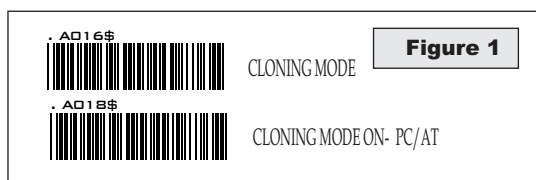
CLONING MODE

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"...." 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**.

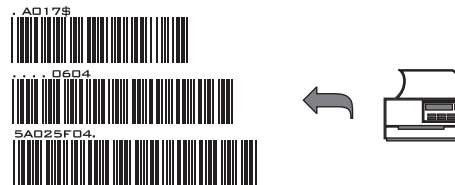
2. SETTING PROCEDURE:

- 2.1. Scan **BEEP LOW.--HIGH (GROUP 3).(page13)**
- 2.2. Scan **CAPSLOCK 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

.A017\$ 0604 5A02 5F04 .	4 4 4 4 .(Dot)
.A017\$ 06045A02 5F04.	12 4+.(Dot)

WRONG SETTING

.A017\$0604 5A02 5F04 .	« Wrong Setting: The string "..." Consists of 4 Dots, located at the beginning of second rows. Do not break the "..." Into multiple string.
.A017\$ 06045 A025F04 .	✓ 9 x } 7 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. .(Dot) ✓
.A017\$.... 0604 5A02 5F04.	X 4 ✓ 4 ✓ 4+.(Dot) ✓ « Wrong Setting Because you add "...." After .A017\$ The .A017\$ is a FIXED parameter for setup entering. It is an unchangeable parameter. Never adds, delete or rearrange data from the FIRST row.

GROUP-2

READING MODE SETTING

. F005\$



CONTINUOUS MODE

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

. F001\$



FLASH 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.

. F002\$



TRIGGER MODE

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

. F006\$



CONTINUOUS AUTO OFF

- * 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.

. F003\$



TOGGLE MODE

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

. F007\$



*AUTO SENSING MODE

- * 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.

. F008\$



*ULTRAVIOLET MODE

- * 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.

. F004\$



TEST MODE

- * 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	2.7KHz
.FD19\$ BEEP HIGH	.FD12\$ OFF
.FD21\$ BEEP HIGH--LOW	.FD14\$ BEEP HIGH
.FD18\$.FD16\$ BEEP HIGH--LOW
BEEP MEDIUM	.FD13\$
.FD20\$ BEEP LOW--HIGH	BEEP MEDIUM
.FD22\$ BEEP LOW	.FD15\$ BEEP LOW--HIGH
	.FD17\$ BEEP LOW
CHECK VERSION	
	.A007\$ CHECK VERSION
TERMINATOR	
.D010\$ NONE	.D013\$
.D011\$ LF	CR+LF
.D012\$ CR	.D014\$ TAB
	.D015\$ SPACE
	.D016\$ ESC
SEND DATA LENGTH	
.D019\$ SEND DATA LENGTH ON	.D020\$ SEND DATA LENGTH OFF

GROUP-4

SETUP CODE READ, PREAMBLE & POSTAMBLE.

SETUP CODE READ



SETUP CODE ON



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)



CLEAR PRE/ POSTAMBLE



PREAMBLE (16)



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 symbolologies : EAN 13+5

145287	JE0	4563987123453	12411
Preamble 145287	CODE ID AIM ID : JE0	BARCODE / DATA EAN 13 +5	
OUTPUT : 145287JE0456398712345312411			

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)		JF2
UPC-E(+2 ON)		JE3	Codabar(CDV & not send CD)	P	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)	R	JA3
Code 11(disable CDV)	J	JH0	IATA 2 of 5		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)	I	JJ1
Telepen(ASCII)	U	JB0	Interleaved 2 of 5(CDV & not send CD)		JJ3
Telepen(Numeric)		JB1	Interleaved 2 of 5(disable CDV)		JJ0

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

. 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

China Post Code [TOSHIBA Code] Set ID	. P012\$
MSI Code Set ID	. P014\$
UK Plessy Set ID	. P015\$
Matrix 2 of 5 Set ID	. P017\$
Interleaved 2 of 5 Set ID	. P006\$
Industrial 2 of 5 Set ID	. P018\$
Full ASCII Code39 Set ID	. P008\$
RSS 14/LIMITED	. P019\$
RSS-Expand Set ID	. P020\$
RSS-14 Set ID	. P024\$
LABEL Code Set ID (Reserved)	. P020\$

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

INTERCHARACTER DELAY

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

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