

Ez One Shot[®]

2D WIRELESS SCANNER USER'S MANUAL



Version: 2017.1

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LED & BEEPER INDICATION

	Status	Green LED	Blue LED	Red LED	Beeper
Scanner	Initializing/ Power-up			1 Flash	1 long beep
	Successful Barcode Scan	1 Flash			1 beep
	Successful Connection	2 Flashes			2 beeps
	Reads Configuration Barcode	1 Flash			2 beeps
	Barcode Scan in Memory Mode	1 Flash			1 beep
	Wireless Disconnection	3 Flashes			3 beeps
	Unexpected Barcode Scan during Configuration	1 Flash			3 short beeps
	Unsuccessful Pincode Setup	1 Flash			3 short beeps
	Barcode Scan w/o Connection	1 Flash			3 short beeps
	Low Power			Flashing	5 beeps
	Bluetooth Discoverable		Flashing		
	Switch to BT HID/SPP Mode		Flashing		Several short beeps
	Power Off or Standby				

CLONING MODE

WHAT IS CLONING MODE?

CLONING duplicates a scanner's settings in other scanners. It can save time when a number of scanners 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.



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 command for cloning.
5. The cloning string's length can be adjusted by combining multiple strings into one, or by breaking one string into 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 row >>> ".A017\$" (never edit any data of the first row)

2nd row >>> "...XXXX" you can adjust the String's Length starting from the dots "...". The length of the string should be in 4, 8, 12, 16 or 20 (MAX)digits.

3rd row ~ so on >>> XXXX

End row - A dot "." Is the ending of cloning.

XXXX Stands for any string

CLONING MODE

EXAMPLE :

1. PROJECT ASSIGNMENTS:

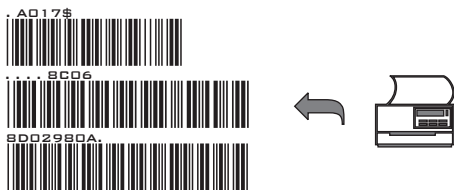
- 1.1. Beep tone: **BEEP LOW.**
- 1.2. Capslock Mode: **CAPSLOCK ON.**
- 1.3. Reading Mode: **CONTINUOUS AUTO OFF.**

2. SETTING PROCEDURE:

- 2.1. Scan **BEEP LOW (GROUP 3).**
 - 2.2. Scan **CAPSLOCK ON (GROUP 12).**
 - 2.3. Scan **CONTINUOUS MODE (GROUP2).**
3. Scan [A016\$] Cloning Mode. All parameters will be output in 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 from the first row to the second and so on sequentially, top to bottom, with the scanner you wish to "clone" these settings to.

CORRECT SETTING

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

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

WRONG SETTING

.A017\$	
..	←
..0604	
5A02	
5F04	
.	

Wrong Setting: The string "..." consists of 4 Dots, located at the beginning of second row; do not break the "...." into multiple strings.

.A017\$	✓
....06045	9 x } ←
A025F04	7 x } ←
.	4 (Dot) ✓

Wrong Setting: The string lengths of the second and third row do not match the length requirements, because rows should be in length of four digits.

.A017\$....	X ←
0604	4 ✓
5A02	4 ✓
5F04.	4+.(Dot) ✓

Wrong Setting because you add "...." after .A017\$:
The .A017\$ is a FIXED parameter to enter setup procedure. It is an unchangeable parameter. **Never add, delete or rearrange data from the FIRST row.**

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 settings have been defined or updated permanently to the scanner.

Default parameters are indicated in bold type and underlined characters. The character font is ARIAL BLACK.

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 (i.e Multi-step Configurations). They are:

Preamble / Postamble (maximum 16 digits)

- Step 1: Scan CLR PRE/POSTAMBLE.
Step 2: Scan PREAMBLE or POSTAMBLE.
Step 3: Scan 1 ~ 16 alphanumeric from Full ASCII table (Group 44-55).
Step 4: Scan PREAMBLE or POSTAMBLE.

Min Length / Max Length

- Step 1: Scan MIN LENGTH or MAX LENGTH.
Step 2: Scan two digits from Full ASCII table - Numbers (Group 52).
Step 3: Scan MIN LENGTH or MAX LENGTH.

Set Code ID (Example: Code 39)

- Step 1: Scan CODE 39 SET ID from Group 8
Step 2: Scan either one or two alphanumerics (maximum 2 digits) from Full ASCII table (Group 46-52)
Step 3: Scan CODE 39 SET ID from Group 8

Set Wireless ID

- Step 1: Scan SET WIRELESS ID
Step 2: Scan 1 ~ 16 alphanumeric character from Full ASCII Table (Group 46-52)
Step 3: Scan SET WIRELESS ID

Set SPP Pincode

- Step 1: Scan SET SPP PINCODE
Step 2: Scan up to 8 digits from Full ASCII Table - Numbers (Group 52)
Step 3: Scan SET SPP PINCODE

Set Data Format

- Step 1: Scan DATA FORMAT
Step 2: Scan 1 ~ 3 digits from Full ASCII Table - Numbers (Group 52)
Step 3: Scan DATA FORMAT

Set Field Separator

- Step 1: Scan FIELD SEPARATOR
Step 2: Scan one alphanumeric character from Full ASCII Table (Group 46-52)
Step 3: Scan FIELD SEPARATOR

Set Date/Time

- Step 1: Scan SET DATE/TIME
Step 2: Scan 6 digits from Full ASCII Table - Numbers (Group 52)
Step 3: Scan SET DATE/TIME

Set Date/Time Format

- Step 1: Scan SET DATE/TIME FORMAT
Step 2: Scan 2 digits from Full ASCII Table - Numbers (Group 52)
Step 3: Scan SET DATE/TIME FORMAT

NOTES:

1. The scanner will beep three times as indication that a setting is not yet complete or unexpected barcode is scanned during multi-step configuration.
2. If you make a mistake, forget a step, etc., and want to abort the multi-step configuration, scan RESET/ABORT and start over again.

RESET/ ABORT



GROUP-1

GENERAL SETTINGS

DEFAULT

.A001\$



* Reset to factory default

CHECK VERSION

.A007\$



* Check firmware version

RESET/ ABORT

.P023\$



* Abort multi-step configuration

SETUP CODE READ

.B015\$



SETUP CODE ON

.B016\$



SETUP CODE OFF

* Caution: Scanning SETUP CODE OFF will turn the scanner into unprogrammable state and the scanner will not react to any configuration barcode!

FUNCTION CODE CONVERSION

.C019\$



ENABLE

.C020\$



DISABLE

* Caution: Once disabled, the scanner will output the original encoded data of the barcodes in Full ASCII Table - Function/Navigation/Modifier Keys (Group 53-55).

GROUP-2

GENERAL SETTINGS - READING MODE

. F005\$



CONTINUOUS MODE

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

. F002\$



TRIGGER MODE

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

. F060\$



MOBILE PHONE MODE

- * The LED will turn on when the trigger is pressed. The LED will turn off when the trigger is released.
- * Optimized to read bar codes from mobile phone or other LED displays

. F007\$



AUTO SENSING MODE (CCD)

- * Auto-Sensing Mode (CCD) uses ambient light to detect barcodes. The LED dims until a barcode is presented to the scanner, then the LED brightens to read the code.
- * If the light level in the room is not high enough, Auto-Sensing Mode (CCD) may not work properly.

NOTES:

1. To extend the scanner's life, keep the scanner set to Trigger Mode or Mobile Phone Mode.

GROUP-3

GENERAL SETTINGS - BEEP TONE, VIBRATOR, TERMINATOR

BEEP TONE

.F019\$



BEEP HIGH

.F018\$



BEEP MEDIUM

.F022\$



BEEP LOW

.F012\$



BEEP OFF

VIBRATOR

.D034\$



VIBRATOR ON

.D035\$



VIBRATOR OFF

TERMINATOR

.D010\$



NONE

.D013\$



CR+LF

.D011\$



LF

.D014\$



TAB

.D012\$



CR

.D015\$



SPACE

.D016\$



ESC

NOTES:

1. For the BT HID/ USB HID interface the default terminator is CR.
2. For the BT SPP/ USB VCP interface the default terminator is CR+LF.
3. Below is the position of Terminator among output data string:
[Preamble] [Symbology ID] [Barcode Length] [Barcode Data] [Postamble] [Terminator]
4. By default, with Preamble, Postamble, Barcode Length and Symbology ID disabled, the scanner data output will be:
[Barcode Data] [Terminator]

GROUP-4

SEND DATA LENGTH, PREAMBLE & POSTAMBLE.

SEND DATA LENGTH

.D019\$



SEND DATA LENGTH ON

.D020\$



SEND DATA LENGTH OFF

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.

DATA FORMAT:

[Preamble] [Symbology ID] [Barcode Length] [Barcode Data] [Postamble] [Terminator]

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 barcode.
3. Default value for both: None.

GROUP-5

GENERAL SETTINGS - CODE ID, INVERSE BARCODE

ENABLE INVERSE BARCODE

.D021\$



DISABLE INVERSE BARCODE
(READS POSITIVE BARCODE ONLY)

.D022\$



ENABLE INVERSE BARCODE
(READS POSITIVE & NEGATIVE BARCODES)

CODE ID / SYMBOLOGY ID

.A008\$



FACTORY ID ON

.A014\$



AIM ID ON

.A015\$



SET ID ON

.A009\$



DISABLE CODE ID

NOTES:

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

DATA FORMAT:

[Preamble] [Symbology ID] [Barcode Length] [Barcode Data] [Postamble] [Terminator]

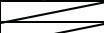

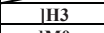
EXAMPLE :

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

145287]	E0	4		12411
Preamble 145287	CODE ID AIM ID :]E0	BARCODE / DATA EAN 13 +5			
OUTPUT : 145287]E0456398712345312411					

GROUP-6

GENERAL SETTINGS - SYMBOLOGIES CODE IDENTIFIER

Symologies		Factory ID	AIM ID	
1D	Code 39	Disable CDV	A0	
		CDV & Send CD	A1	
		CDV	A3	
	Full ASCII Code 39	Disable CDV	D	A4
		CDV & Send CD		A5
		CDV		A7
	Code 32		B	X0
	Codabar		N	F0
		CDV & Send CD		F2
		CDV		F6
		Symbol Concatenation		F1
	Interleaved 2 of 5	Disable CDV	I	I0
		CDV & Send CD		I1
		CDV		I3
	NEC 2 of 5		n	X0
	IATA 2 of 5		R	R0
	Matrix 2 of 5		Y	X0
	Industrial 2 of 5		V	S0
	Code 11	Disable CDV	J	
		CDV & Send CD-1		
		CDV & Send CD-2		
		CDV		H3
	MSI	Disable CDV	O	M0
		Single Mod 10		M5
		Single Mod 10 & CD		M1
		Double Mod 10		M7
		Double Mod 10 & CD		M3
		MOD - 11		M6
		MOD - 11 & Send CD		M2
	EAN-13		F	E0
with Add-On		E3		
UPC-A		A	E0	
	with Add-On		E3	
EAN-8		S	E4	
	with Add-On		E4	
UPC-E		E	E0	
	with Add-On		E3	
Code 93		L	G0	
Code 128		K	C0	
GS1 128		T	C1	
GS1 Databar		G	e0	
Databar Limited		l	e0	
Databar Expanded		e	e0	
Postal	China Post	H	X0	
	Korea Post	k	X0	
	Australian	a	X0	
	British	b	X0	
	Canadian	c	X0	
	Japanese	j	X0	
	KIX (Netherlands)	x	X0	
	InfoMail Code	m	X0	
	Intelligent Code	i	X0	
	Planet Code	f	X0	
	Postal-4i Code	4	X0	
	Postnet Code	p	X0	
2D	PDF417	Z	L0	
	Micro-PDF	r	L0	
	QR Code	W	Q0	
	Data Matrix	X	d0	
	MaxiCode	u	U0	
	Codablock-A	g	O6	
	Codablock-F	C	O0	
	Aztec	z	z0	
Chinese Sensible Code (Han Xin)	O	X0		

GROUP-7

GENERAL SETTINGS - SET CODE 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\$



GS1 128 Set ID

. P009\$



Code 11 Set ID

. P011\$



Code 32 Set ID

. P014\$



MSI Set ID

. P017\$



Matrix 2 of 5 Set ID

. P006\$



Interleaved 2 of 5
Set ID

GROUP-8

GENERAL SETTINGS - SET CODE ID

. P018\$



Industrial 2 of 5 Set ID

. P028\$



NEC 2 of 5 Set ID

. P008\$



Full ASCII Code39
Set ID

. P024\$



GS1 Databar
Set ID

. P019\$



GS1 Databar Limited
Set ID

. P020\$



GS1 Databar Expanded
Set ID

. P012\$



China Post (TOSHIBA Code)
Set ID

. P035\$



Korea Post Set ID

. P036\$



Australian Post Set ID

. P037\$



British Post Set ID

. P038\$



Canadian Post Set ID

. P039\$



Japanese Post Set ID

. P040\$



KIX (Netherlands) Post
Set ID

. P041\$



InfoMail Set ID

GROUP-9

GENERAL SETTINGS - SET CODE ID

. P042\$



Intelligent Mail Set ID

. P043\$



Planet Code Set ID

. P044\$



Postal-4i Set ID

. P045\$



Postnet Set ID

. P025\$



PDF417 Set ID

. P029\$



MicroPDF417 Set ID

. P026\$



QR Code Set ID

. P027\$



Data Matrix Set ID

. P030\$



MaxiCode Set ID

. P033\$



Aztec Set ID

. P034\$



Chinese Sensible Code (Han Xin)
Set ID

. P031\$



Codablock A
Set ID

. P032\$



Codablock F
Set ID

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.

GROUP-10

GENERAL SETTINGS

INTERBLOCK DELAY

. B001\$



0mS

. B002\$



10mS

. B003\$



50mS

. B004\$



100mS

. B005\$



200mS

. B006\$



500mS

. B007\$



Set Interblock Delay

NOTES:

You may either scan [0mS], [10mS], [50mS], [100mS], [200mS], [500mS] or follow below steps to fine-tune Interblock Delay (0~2550mS)

1. Scan [Set Interblock Delay].
 2. Scan three digits (Range: 000~255, unit: 10mS) from the Full ASCII Table.
 3. Scan [Set Interblock Delay].
-

INTERCHARACTER DELAY

. B010\$



0mS

. B012\$



1mS

. B013\$



4mS

. B014\$



16mS

. B009\$



Set Intercharacter Delay

NOTES:

You may either scan [0mS], [1mS], [4mS], [16mS] or follow below steps to fine-tune Intercharacter Delay (0~255mS)

1. Scan [Set Intercharacter Delay].
2. Scan three digits (Range: 000~255, unit: 1mS) from the Full ASCII Table.
3. Scan [Set Intercharacter Delay].

GROUP-11

GENERAL SETTINGS - KEYBOARD LAYOUT

KEYBOARD LAYOUT

. C010\$



ENGLISH (USA)

. C018\$



ENGLISH (UK)

. C012\$



FRENCH

. C011\$



GERMAN

. C014\$



ITALIAN

. C013\$



SPANISH

. C017\$



CZECH (QWERTY)

. C022\$



CZECH (QWERTZ)

. C021\$



HUNGARIAN (QWERTZ)

. C024\$



HUNGARIAN (101 KEY)

. C016\$



SWISS (GERMAN)

. C023\$



SWISS (FRENCH)

. C009\$



JAPAN (106 key)

. C025\$



CANADIAN (FRENCH)

. C034\$



CANADIAN (TRADITIONAL)

. C029\$



NORWEGIAN

. C026\$



SWEDISH

. C031\$



PORTUGUESE

. C030\$



BELGIAN (AZERTY)

. C028\$



DUTCH

. C027\$



DANISH

. C032\$



SLOVAK

. C033\$



BRAZILIAN (PORTUGUESE)

. C015\$



ALT CODE

GROUP-12

GENERAL SETTINGS - CAPLOCK MODE, NUMERIC KEY, HT/CR/ESC CONVERSION

CAPITAL LOCK MODE



NOTE:

1. When barcode scanner is set to Caplock Free mode, no matter 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)
 2. If ABCD/ ABCD, abcd/ abcd, ABCD/T*E, abcd/tn*e are on, they work independently according to their rules.
-

NUMERIC KEY



NOTE:

1. By default, the alphanumeric key is used for transmitting digits. Scan NUMERIC KEY if you want to use the keys on the numeric keypad.
 2. If you select NUMERIC KEY, the Num Lock status of the physical keyboard should be ON.
-

HT/CR/ESC CONVERTS TO TAB/ENTER/ESCAPE



NOTE:

1. By default, HT [\$I], CR [\$M] and ESC [%A] is transmitted as <0x09>, <0x0D> and <0x1B> respectively.
2. When enabled, HT [\$I], CR [\$M] and ESC [%A] is transmitted as <TAB>, <ENTER> and <ESCAPE> on keyboard respectively.

GROUP-13

WIRELESS SCANNER SETTINGS

INTERFACE

. E043\$



BT HID

Emulates a **Bluetooth HID keyboard** that transmits each barcode data to the host after decode. Wireless scanner operates in this mode right out of box. Please see next page for details.

. E042\$



BT SPP

Emulates a **Bluetooth SPP device** that transmits each barcode data in serial communication to the host after decode. Please see next page for details.

. E052\$



BT SPP (Not Auto-Reconnect)

Emulates a **Bluetooth SPP device** that transmits each barcode data in serial communication to the host after decode. In this mode scanner will not try to auto-reconnect to the host.

. C035\$



Memory Mode

Emulates a **USB mass storage device** that saves each barcode data during off-line data collection. See Memory Mode chapter (Group 23) for details.

. C008\$



USB HID

Emulates a **USB keyboard** that transmits each barcode data to the host after decode. Barcode data is sent via USB cable directly.

. C006\$



USB VCP

Emulates a **USB virtual com device** that transmit each barcode data to the host after decode. Barcode data is sent via USB cable directly. For VCP driver, please contact our sales representative or technical support team.

GROUP-14

WIRELESS SCANNER SETTINGS

BLUETOOTH PROFILE

. E043\$



(Recommended)

BT HID

1. Press the trigger for 1 second to activate the scanner.
 2. Scan **[DISCONNECT]**
 3. Scan **[BT mode - HID]**; the scanner will emit several beeps.
 4. Select "Wireless Scanner" from discovered device list.
(For PC, please click "Create a pairing code for me")
 5. If Bluetooth application prompt you to enter a pincode, please follow the steps in **PINCODE SETUP** section the on next page.
 6. The scanner will beep twice to verify the connection.
-

. E042\$



BT SPP

1. Press the trigger for 1 second to activate the scanner.
 2. Scan **[DISCONNECT]**
 3. Scan **[BT mode - SPP]**; the scanner will emit several beeps.
 4. Select "Wireless Scanner" from discovered device list.
(For PC, please click "Enter the device's pairing code")
 6. If Bluetooth application prompt your to enter a pincode, enter "1234" from the host.
 7. Open serial communication software with com port
(see Device Manager) properly set up.
 8. The scanner will beep twice to verify the connection.
-

. E031\$



Disconnect

GROUP-15

WIRELESS SCANNER SETTINGS

PINCODE SETUP

STEP 1

Pincode Start

.E032\$



STEP 2

Scan numeric barcodes (see **NUMERIC BARCODES** below) based on the pincode generated by the Bluetooth application.

NUMERIC BARCODES



1

6



2

7



3

8



4

9



5

0



STEP 3

Enter

\$TX



STEP 4

Pincode Stop

.E033\$



GROUP-16

WIRELESS SCANNER SETTINGS

Getting Connected - iOS & Android

1. Press the trigger for 1 second to power up the scanner.
2. Scan below configuration barcode to clear last pairing record.

. E031\$



Disconnect

3. Scan below configuration barcode; the scanner will emit several beeps.

. E043\$

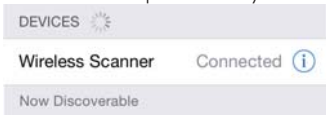


BT mode - HID

4. Select "Wireless Scanner" from discovered device list.

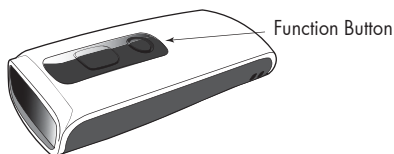


5. The scanner will beep twice to verify the connection.



Touch Keyboard - iOS

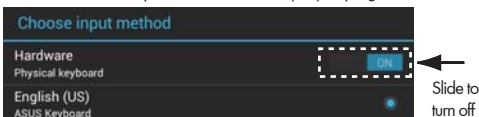
While connected with the scanner, the Touch Keyboard on the iOS device might disappear. To resolve this issue, please simply press the function button to toggle iOS Touch Keyboard.



Touch Keyboard - Android

While connected with the scanner, the Touch Keyboard on the Android smartphone or tablet might disappear. To resolve this issue, please change settings on Android device with below steps:

1. Enter "Settings"
2. Enter "Language & input"
3. Tap on "Default keyboard"
4. Turn off "Physical keyboard", or Turn on "On-screen keyboard" and the Touch Keyboard will function properly again.



GROUP-17

WIRELESS SCANNER SETTINGS

POWER OFF TIMEOUT

Variable Timeout

. B030\$



SET MINUTE
(Range: 00 ~ 60)

. B029\$



SET SECOND
(Range: 00 ~ 60)

The timeout is 3 minutes by default, and is programmable to the second and minute, ranging from 10 seconds (00:10) to 60 minutes and 60 seconds (60:60)

For example, to set the timeout as 5 minutes 30 seconds:

1. Scan [Set Minute]
2. Scan [0] & [5] on below numeric barcode table.
3. Scan [Set Minute]
4. Scan [Set Second]
5. Scan [3] & [0] on below numeric barcode table.
6. Scan [Set Second]

No Timeout (Scanner Always On)

. B021\$



DISABLE
TIMEOUT

NUMERIC BARCODES



1

6



2

7



3

8



4

9



5

0



GROUP-18

WIRELESS SCANNER SETTINGS

SET BLUETOOTH DEVICE ID

To customize your own Bluetooth device name for the wireless scanner, please follow below steps:

STEP 1

Default Wireless ID

. B022\$



STEP 2

Set Wireless ID

. B023\$



STEP 3

Scan up to 16 alphanumeric characters from Full ASCII Table (GROUP 46-52) as your desired ID name.

STEP 4

Set Wireless ID

. B023\$



STEP 5

Scan a desired BT mode in **BLUETOOTH PROFILE** (GROUP 14) to complete the configuration.

*Note:

1. If you have connected the scanner with the host BEFORE customizing your Bluetooth device name, please remove the device and create a new connection to make sure device name is refreshed. For PC, it is recommended to restart the Bluetooth adaptor in order to refresh device name.
2. At Step 3, the scanner will beep three times as an alert that more than 16 characters are entered.
3. To reset the Bluetooth device name to default ("Wireless Scanner"), please simply do Step 1 & Step 5, skipping Step 2 to Step 4.

GROUP-19

WIRELESS SCANNER SETTINGS

SET SPP PINCODE

By default, the pincode under SPP profile for the scanner is "1234". You may customize this pincode with below steps:

STEP 1

. B024\$

Set SPP Pincode



STEP 2

Scan numeric barcodes (see **NUMERIC BARCODES** below)
Up to 8 numbers can be set as SPP pincode.

NUMERIC BARCODES



1

6



2

7



3

8



4

9



5

0



STEP 3

. B024\$

Set SPP Pincode



STEP 4

Scan a desired BT mode in **BLUETOOTH PROFILE** (GROUP 14)
to complete the configuration.

GROUP-20

WIRELESS SCANNER SETTINGS

SCANLINK

ScanLink is a connection method that turns the scanner into a master device, which initiates the Bluetooth connection with the target host device (now a slave device). This, as a result, saves user the trouble of going through numerous setup procedures on the host device to establish connection or

There are two types of ScanLink operation:

SCANLINK via Bluetooth HID/SPP Profile

First, please generate one ScanLink barcode for the target slave device in below methods:

1. The barcode must be Code 39 with no checksum
2. Barcode data format: HID(or SPP) + device's MAC address

For example, the target slave device's MAC address is 001583522C3B.

Please encode:

HID001583522C3B in Code39 barcode.

or

SPP001583522C3B in Code39 barcode.

Now, you may establish Bluetooth connection with only one scan on the ScanLink barcode.

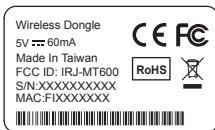
*Note: Please check the your host device's compatibility before using ScanLink function via either of the profiles.

SCANLINK with Wireless Dongle

Wireless Dongle, authorized or manufactured by our company, usually have a ScanLink barcode on its product label or on its extra Set Connection label. Simply scanning the ScanLink barcode on either one of the labels will create Bluetooth connection.



<Set Connection label>



<Product Label>

GROUP-21

WIRELESS SCANNER SETTINGS

SHUT DOWN

This configuration barcode will shut down the scanner immediately but still reserve the pairing record.

. E255\$



SHUT DOWN

DISCONNECTION

. E031\$



DISCONNECT
(CLEAR PAIRING RECORD)

. E046\$



DISCONNECT
(KEEP PAIRING RECORD)

GROUP-22

WIRELESS SCANNER SETTINGS

BINARY CHECK CHARACTER

. E029\$



ENABLE

. E030\$



DISABLE

Once enabled, a checksum will be added to the end of each data to conduct Xor calculation. For Bluetooth SPP & USB-VCP, the BCC is 1 byte. For Bluetooth HID, the BCC are 2 bytes.

Example:

The barcode data is "TEST" with terminator <CR><LF>

1. Bluetooth SPP & USB-VCP:

Data Format = <T> + <E> + <S> + <T> + <CR> + <LF> + <BCC>.

BCC = 54h ^ 45h ^ 53h ^ 54h ^ 0Dh ^ 0Ah = 11h

2. Bluetooth HID:

Data Format = <T> + <E> + <S> + <T> + <Enter> + <BCC>

BCC = 54h ^ 45h ^ 53h ^ 54h ^ E7h = F1h

However, since control character cannot be displayed in Bluetooth HID, BCC will be converted into 2 bytes of characters. As a result, the data will be: TEST + <Enter> + F + 1

GROUP-23

WIRELESS SCANNER SETTINGS

MEMORY MODE

. C035\$



MEMORY MODE

After scanning the above barcode, the scanner will be able to collect barcode data off-line. The barcode data will be stored in the format of:

< Date >, < Time >, < Barcode Data > < CR >

To retrieve stored data, please connect the scanner to the host with cable, access removable storage device "MiniScan" from which you may open or copy the file "BARCODE.txt" to your computer.

To exit Memory Mode, simply scan any interface barcode in **INTERFACE** section (Group 13)

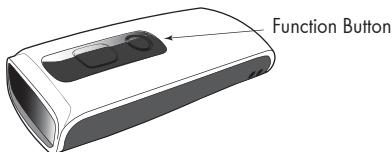
DELETE LAST RECORD

. R005\$



DELETE LAST RECORD

To delete ONE stored data, please scan below barcode or press function button.



CLEAR ALL RECORD

To delete ALL stored data, simply delete the file "BARCODE.txt" in the removable storage device "MiniScan" until you hear two beeps.

GROUP-24

WIRELESS SCANNER SETTINGS

DATA FORMAT

. R011\$



DATA FORMAT

The default Data Format for Memory Mode is <Date>, <Time>, <Barcode Data> below are items and their setup codes:

Code	Item	Code	Item
2	Date	4	Barcode Data
3	Time		

Example:

To change Data Format to <Barcode Data>, <Date>, <Time>

1. Scan [Data Format]
2. Scan [4], [2], [3] from Group 52.
3. Scan [Data Format]

. R010\$



FIELD SEPARATOR

Default is comma (,). You may replace it with any alphanumeric characters from the full ASCII table.

Example: To change Field Separator to Semicolon (;)

1. Scan [Field Separator]
2. Scan [;] from the full ASCII table (Group 46-52)
3. Scan [Field Separator]

DATE & TIME SETUP

SET DATE

. R006\$



Example: To set Date to 2012-08-01 (Year-Month-Day):

1. Scan [Set Date]
2. Scan [1], [2], [0], [8], [0], [1] from Group 52.
3. Scan [Set Date]

SET TIME

. R007\$



Example: To set Time to 08:10:30 am (Hr:Min:Sec)

1. Scan [Set Time]
2. Scan [0], [8], [1], [0], [3], [0] from Group 52.
3. Scan [Set Time]

* To avoid Time and Date being reset to factory default due to running out of battery, please fully charge the scanner for at least 3 hours before use.

GROUP-25

WIRELESS SCANNER SETTINGS

DATE FORMAT

. R008\$



DATE FORMAT

The default Date Format for Memory Mode is DD/MM/YYYY (Code = 09), below is full list of available formats and their setup codes:

Code	Format	Code	Format
01	DD-MM-YYYY	09	DD/MM/YYYY
02	MM-DD-YYYY	10	MM/DD/YYYY
03	DD-MM-YY	11	DD/MM/YY
04	MM-DD-YY	12	MM/DD/YY
05	YYYY-MM-DD	13	YYYY/MM/DD
06	YY-MM-DD	14	YY/MM/DD
07	DD-MM	15	DD/MM
08	MM-DD	16	MM/DD

Example:

To set Date Format to MM/DD/YY (Code =12)

1. Scan [Date Format]
2. Scan [1], [2] from Group 52.
3. Scan [Date Format]

TIME FORMAT

. R009\$



TIME FORMAT

The default Time Format for Memory Mode is HH:MM:SS (Code = 01), below are available formats and their setup codes:

Code	Format	Code	Format
01	HH:MM:SS	02	HH:MM

Example:

To set Time Format to HH:MM (Code = 02)

1. Scan [Time Format]
2. Scan [0], [2] from Group 52.
3. Scan [TimeFormat]

GROUP-26

ENABLE/ DISABLE SYMBOLOGIES

ENABLE



ENABLE ALL CODE



CODE 32



INDUSTRIAL 2 OF 5



MATRIX 2 OF 5



INTERLEAVED 2 OF 5



CODE 128



CODABAR



CODE 93



GS1-128



IATA



CODE 11



MSI

DISABLE



DISABLE ALL CODE



CODE 32



INDUSTRIAL 2 OF 5



MATRIX 2 OF 5



INTERLEAVED 2 OF 5



CODE 128



CODABAR



CODE 93



GS1-128



IATA



CODE 11



MSI

GROUP-27

ENABLE/ DISABLE SYMBOLOGIES

ENABLE



UPC-A



UPC-E



EAN-8



EAN-13



CODE 39



FULL ASCII CODE39



NEC 2 OF 5



GS1-128



GS1 Databar
Omnidirectional



GS1 Databar Limited



GS1 Databar Expanded



CHINA POST

DISABLE



UPC-A



UPC-E



EAN-8



EAN-13



CODE 39



FULL ASCII CODE39



NEC 2 OF 5



GS1-128



GS1 Databar
Omnidirectional



GS1 Databar Limited



GS1 Databar Expanded



CHINA POST

GROUP-28

ENABLE/ DISABLE SYMBOLOGIES

ENABLE



KOREA POST



PDF417



MICROPDF417



(MICRO) QR CODE



DATA MATRIX



MAXICODE



AZTEC



CODABLOCK A



CODABLOCK F



CHINESE SENSIBLE CODE
(HAN XIN)

DISABLE



KOREA POST



PDF417



MICROPDF417



(MICRO) QR CODE



DATA MATRIX



MAXICODE



AZTEC



CODABLOCK A



CODABLOCK F



CHINESE SENSIBLE CODE
(HAN XIN)

GROUP-29

SYMBOLOLOGIES: INTERLEAVED 2 OF 5, IATA, MATRIX 2 OF 5

. J001\$



ENABLE

. J002\$



DISABLE

. J003\$



DISABLE CDV

. J004\$



CDV & SEND CD

INTERLEAVED 2 OF 5

. J006\$



MIN LENGTH (4)

. J007\$



MAX LENGTH (80)

. J005\$



CDV & NOT SEND CD

. N017\$



ENABLE

. N018\$



DISABLE

IATA

. N022\$



MIN LENGTH (4)

. N023\$



MAX LENGTH (80)

. M010\$



ENABLE

. M011\$



DISABLE

MATRIX 2 OF 5

. M015\$



MIN LENGTH (4)

. M016\$



MAX LENGTH (80)

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:

RESET/ ABORT



1. The scanner will beep three times as indication that a setting is not yet complete or unexpected barcode is scanned during multi-step configuration.
2. If you make a mistake, forget a step, etc., and want to abort the multi-step configuration, scan RESET/ABORT and start over again.

GROUP-30

SYBBOLOGIES: INDUSTRIAL 2 OF 5, NEC 2 OF 5, CODE 11

. N001\$



ENABLE

. N002\$



DISABLE

INDUSTRIAL 2 OF 5

. N006\$



MIN LENGTH (4)

. N007\$



MAX LENGTH (48)

. J033\$



ENABLE

. J034\$



DISABLE

. J035\$



DISABLE CDV

. J036\$



CDV & SEND CD

NEC 2 OF 5

. J038\$



MIN LENGTH (4)

. J039\$



MAX LENGTH (80)

. J037\$



CDV & NOT SEND CD

. I010\$



ENABLE

. I011\$



DISABLE

. I042\$



CDV & SEND CD
(1 DIGIT)

CODE 11

. I043\$



CDV & SEND CD
(2 DIGITS)

. I015\$



MIN LENGTH (4)

. I016\$



MAX LENGTH (80)

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:

RESET/ ABORT



1. The scanner will beep three times as indication that a setting is not yet complete or unexpected barcode is scanned during multi-step configuration.
2. If you make a mistake, forget a step, etc., and want to abort the multi-step configuration, scan RESET/ABORT and start over again.

GROUP-31

SYMBOLOLOGIES: CODE 93, MSI

CODE 93



MSI



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:

RESET/ ABORT



1. The scanner will beep three times as indication that a setting is not yet complete or unexpected barcode is scanned during multi-step configuration.
2. If you make a mistake, forget a step, etc., and want to abort the multi-step configuration, scan RESET/ABORT and start over again.

GROUP-32

SYMBOLOGIES: STANDARD, FULL ASCII CODE 39, CODE 32



CODE 39 ENABLE



CODE 39 DISABLE



FULL ASCII CODE 39
ENABLE



FULL ASCII CODE 39
DISABLE



START / STOP - SEND



START / STOP Not SEND

STANDARD CODE 39 & FULL ASCII 39



DISABLE CDV



CDV & SEND CD



CDV & NOT SEND CD



MIN LENGTH (1)



MAX LENGTH (48)

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

CODE 32



DISABLE

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:

RESET/ ABORT



1. The scanner will beep three times as indication that a setting is not yet complete or unexpected barcode is scanned during multi-step configuration.
2. If you make a mistake, forget a step, etc., and want to abort the multi-step configuration, scan RESET/ABORT and start over again.

GROUP-33

SYBBOLOGIES: CODABAR



ENABLE



DISABLE



DISABLE CDV



CDV & SEND CD

CODABAR



CDV & NOT SEND CD



MIN LENGTH (4)



MAX LENGTH (60)



NOT SEND START / STOP

START / STOP



Send START / STOP



CONCATENATION OFF

CONCATENATION



CONCATENATION ON



CONCATENATION
REQUIRE

NOTE:

1. When you enable concatenation, the scanner looks for a Codabar symbol having a "D" start character, adjacent to a symbol having a "D" stop character. In this case the two messages are concatenated into one with the "D" characters omitted.



2. Select Require to prevent the scanner from decoding a single "D" Codabar symbol without its companion. This selection has no effect on Codabar symbols without Stop/Start D characters.

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:

RESET/ ABORT



1. The scanner will beep three times as indication that a setting is not yet complete or unexpected barcode is scanned during multi-step configuration.
2. If you make a mistake, forget a step, etc., and want to abort the multi-step configuration, scan RESET/ABORT and start over again.

GROUP-34

SYMBOLOLOGIES: CODE 128, GS1-128, GS1 DATABAR

CODE 128

. J010\$



ENABLE

. J012\$



MIN LENGTH (1)

. J011\$



DISABLE

. J013\$



MAX LENGTH (80)

. J041\$



ISBT 128
CONCATENATION
OFF

. J040\$



ISBT 128
CONCATENATION
ON

GS1-128

. M001\$



ENABLE

. M019\$



MIN LENGTH (1)

. M002\$



DISABLE

. M020\$



MAX LENGTH (80)

GS1 DATABAR

. N032\$



GS1 DATABAR
OMNIDIRECTIONAL
ENABLE

. N033\$



GS1 DATABAR
OMNIDIRECTIONAL
DISABLE

. N010\$



GS1 DATABAR
LIMITED ENABLE

. N011\$



GS1 DATABAR
LIMITED DISABLE

. N026\$



GS1 DATABAR
EXPANDED ENABLE

. N027\$



GS1 DATABAR
EXPANDED DISABLE

. N030\$



MIN LENGTH (4)

. N031\$



MAX LENGTH (74)

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:

RESET/ ABORT



1. The scanner will beep three times as indication that a setting is not yet complete or unexpected barcode is scanned during multi-step configuration.
2. If you make a mistake, forget a step, etc., and want to abort the multi-step configuration, scan RESET/ABORT and start over again.

GROUP-35

SYMBOLOGIES FORMATTING: UPC- A

. H001\$



ENABLE

UPC- A

. H005\$



CHECK DIGIT SEND

. H002\$



DISABLE

. H006\$



CHECK DIGIT NOT SEND

. H077\$



NUMBER SYSTEM
DIGIT SEND

. H078\$



NUMBER SYSTEM
DIGIT NOT SEND

UPC-A EXPAND TO EAN-13

. H068\$



ENABLE

. H067\$



DISABLE

. H033\$



+5 ON

ADD ON SUPPLEMENT

. H060\$



ADDENDA REQUIRED ON

. H034\$



+ 5 OFF

. H059\$



ADDENDA REQUIRED OFF

. H035\$



+2 ON

. H036\$



+ 2 OFF

. H045\$



ADD A SPACE ON

. H046\$



ADD A SPACE OFF

NOTE:

If ADDENDA REQUIRED is set to ON, the scanner will only read an UPC-A/E bar code that has an addenda. At the same time please also scan +5 ON or +2 ON so the scanner will output a 5-digit or 2-digit addendum.

GROUP-36

SYMBOLOLOGIES: UPC-E

. H007\$



ENABLE

. H008\$



DISABLE

. H079\$



NUMBER SYSTEM
DIGIT SEND

. H011\$



CHECK DIGIT SEND

. H012\$



CHECK DIGIT NOT SEND

. H080\$



NUMBER SYSTEM
DIGIT NOT SEND

UPC-E

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

. H053\$



ENABLE

. H054\$



DISABLE

. H037\$



+5 ON

. H038\$



+ 5 OFF

. H039\$



+2 ON

. H047\$



ADD A SPACE ON

ADD ON SUPPLEMENT

. H056\$



ADDENDA REQUIRED ON

. H055\$



ADDENDA REQUIRED OFF

. H040\$



+ 2 OFF

. H048\$



ADD A SPACE OFF

UPC-E1

. H065\$



UPC-E1 ON

. H066\$



UPC-E1 OFF

GROUP-37

SYMBOLOLOGIES: EAN-8



EAN-8



ADD ON SUPPLEMENT



NOTE:

If ADDENDA REQUIRED is set to ON, the scanner will only read an EAN-8 bar code that has an addenda. At the same time please also scan +5 ON or +2 ON so the scanner will output a 5-digit or 2-digit addendum.

GROUP-38

SYMBOLOGIES: EAN-13, ISBN



EAN-13



ADD ON SUPPLEMENT



ISBN



NOTES:

1. If ADDENDA REQUIRED is set to ON, the scanner will only read an EAN-13 bar code that has an addenda. At the same time please also scan +5 ON or +2 ON so the scanner will output a 5-digit or 2-digit addendum.
2. ISBN is considered as an extension of EAN-13. EAN-13 must be enabled before reading an ISBN.

GROUP-39

SYMBOLOLOGIES: CHINA POST, KOREA POST, PLANET, POSTNET



CHINA POST



KOREA POST



PLANET CODE



POSTNET



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:

RESET/ ABORT



1. The scanner will beep three times as indication that a setting is not yet complete or unexpected barcode is scanned during multi-step configuration.
2. If you make a mistake, forget a step, etc., and want to abort the multi-step configuration, scan RESET/ABORT and start over again.

GROUP-40

SYMBOLOGIES: AUSTRALIAN POST, OTHER POSTAL CODES

. A002\$



ENABLE

AUSTRALIAN POST

. K024\$



DISABLE

. K026\$



AUSTRALIAN POST
INTERPRETATION

AUSTRALIAN POST INTERPRETATION

This option controls what interpretation is applied to customer fields in Australian 4-State symbols. By default, interpretation is Bar Output (Code = 0).

Code	Interpretation
0	Bar Output
1	Numeric N Table
2	Alphanumeric C Table
3	Combination C and N Tables

Example:

To set interpretation to Numeric N Table.

1. Scan [Australian Post Interpretation]
2. Scan [1] from Full ASCII Table - Numbers (Group 52)
3. Scan [Australian Post Interpretation]

. A002\$



ENABLE

OTHER POSTAL CODES:

BRITISH POST

CANADIAN POST

JAPANESE POST

INFOMAIL

INTELLIGENT MAIL

POSTAL-4i

KIX (NETHERLANDS) POST

. K024\$



DISABLE

GROUP-41

SYMBOLOLOGIES: PDF417, MICROPDF417, QR CODE, DATAMATRIX

PDF417

.G021\$



ENABLE

.G022\$



DISABLE

.G023\$



MIN LENGTH (1)

.G024\$



MAX LENGTH (2750)

MICROPDF417

.G039\$



ENABLE

.G040\$



DISABLE

.G041\$



MIN LENGTH (1)

.G042\$



MAX LENGTH (366)

(MICRO) OR CODE

.G025\$



ENABLE

.G026\$



DISABLE

.G029\$



MIN LENGTH (1)

.G030\$



MAX LENGTH (4000)

DATAMATRIX

.G031\$



ENABLE

.G032\$



DISABLE

.G033\$



MIN LENGTH (1)

.G034\$



MAX LENGTH (3116)

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:

RESET/ ABORT



1. The scanner will beep three times as indication that a setting is not yet complete or unexpected barcode is scanned during multi-step configuration.
2. If you make a mistake, forget a step, etc., and want to abort the multi-step configuration, scan RESET/ABORT and start over again.

GROUP-42

SYMBOLOLOGIES: MAXICODE, AZTEC, CHINESE SENSIBLE CODE (HAN XIN)

MAXICODE

.G043\$



ENABLE

.G044\$



DISABLE

.G045\$



MIN LENGTH (1)

.G046\$



MAX LENGTH (150)

AZTEC

.G055\$



ENABLE

.G056\$



DISABLE

.G057\$



MIN LENGTH (1)

.G058\$



MAX LENGTH (3832)

CHINESE SENSIBLE CODE (HAN XIN)

.G059\$



ENABLE

.G060\$



DISABLE

.G061\$



MIN LENGTH (1)

.G062\$



MAX LENGTH (4000)

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:

RESET/ ABORT



1. The scanner will beep three times as indication that a setting is not yet complete or unexpected barcode is scanned during multi-step configuration.
2. If you make a mistake, forget a step, etc., and want to abort the multi-step configuration, scan RESET/ABORT and start over again.

GROUP-43

SYBBOLOGIES: CODABLOCK A, CODABLOCK F, GS1 COMPOSITE

CODABLOCK A

.G047\$



ENABLE

.G048\$



DISABLE

.G049\$



MIN LENGTH (1)

.G050\$



MAX LENGTH (600)

WARNING:

1. Once enabled, Code 39 will be automatically disabled to reduce the risks of mistakenly decoding a damaged Codablock A as a Code 39 symbol.
-

CODABLOCK F

.G051\$



ENABLE

.G052\$



DISABLE

.G053\$



MIN LENGTH (1)

.G054\$



MAX LENGTH (2048)

NOTES:

1. When Codablock F and Code 128 are both enabled, there is some risks of mistakenly decoding a damaged Codablock F symbol as a Code 128 symbol. Therefore, whenever possible, Code 128 should be disabled when Codablock F is enabled.
-

GS1 COMPOSITE

.K051\$



ENABLE

.K050\$



DISABLE

UPC/EAN Version GS1 COMPOSITE

.K055\$



ENABLE

.K057\$



UPC/EAN COMPOSITE REQUIRED ON

.K054\$



DISABLE

.K056\$



UPC/EAN COMPOSITE REQUIRED OFF

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:

RESET/ ABORT



1. The scanner will beep three times as indication that a setting is not yet complete or unexpected barcode is scanned during multi-step configuration.
2. If you make a mistake, forget a step, etc., and want to abort the multi-step configuration, scan RESET/ABORT and start over again.

GROUP-44

FULL ASCII TABLE (CODE 39) CONTROL CODES

%U		NUL
\$A		SOH
\$B		STX
\$C		ETX
\$D		EOT
\$E		ENQ
\$F		ACK
\$G		BEL
\$H		BS
\$I		HT
\$J		LF
\$K		VT
\$L		FF
\$M		CR
\$N		SO
\$O		SI

GROUP-45

FULL ASCII TABLE (CODE 39) CONTROL CODES

DLE	\$P 
DC1	\$Q 
DC2	\$R 
DC3	\$S 
DC4	\$T 
NAK	\$U 
SYN	\$V 
ETB	\$W 
CAN	\$X 
EM	\$Y 
SUB	\$Z 
ESC	%A 
FS	%B 
GS	%C 
RS	%D 
US	%E 
SP	

GROUP-46

FULL ASCII TABLE (CODE 39) SYMBOLS

+		+
-		-
.		.
\$		\$
%		%
/		/
%L		\
/ A		!
%V		@
/ C		#
%N		^
%S		~
/ F		&
/ J		*
%□		-
%H		=
%Q		

GROUP-47

FULL ASCII TABLE (CODE 39) SYMBOLS

{	%P 
}	%R 
[%K 
]	%M 
(/ H 
)	/ I 
<	%G 
>	%I 
,	%W 
"	/ B 
'	/ G 
,	/ L 
;	%F 
:	/ Z 
?	%J 
DEL	%T 

GROUP-48

FULL ASCII TABLE (CODE 39)
UPPER CASE ALPHABETS



A



B



C



D



E



F



G



H



I



J



K



L



M


GROUP-49

FULL ASCII TABLE (CODE 39)
UPPER CASE ALPHABETS


N 

O 

P 

Q 

R 

S 

T 

U 

V 

W 

X 

Y 

Z 

GROUP-50

FULL ASCII TABLE (CODE 39)
LOWER CASE ALPHABETS

+A  a

+B  b

+C  c

+D  d

+E  e

+F  f

+G  g

+H  h

+I  i

+J  j

+K  k

+L  l

+M  m

GROUP-51

FULL ASCII TABLE (CODE 39)
LOWER CASE ALPHABETS

n  +N

o  +O

p  +P

q  +Q

r  +R

s  +S

t  +T

u  +U

v  +V

w  +W

x  +X

y  +Y

z  +Z

GROUP-52

FULL ASCII TABLE (CODE 39) NUMBERS



0



1



2



3



4



5



6



7



















8



9

GROUP-53

FULL ASCII TABLE (CODE 39) FUNCTION KEYS

F1	\$TA	
F2	\$TB	
F3	\$TC	
F4	\$TD	
F5	\$TE	
F6	\$TF	
F7	\$TG	
F8	\$TH	
F9	\$TI	
F10	\$TJ	
F11	\$TK	
F12	\$TL	
Home	\$TM	
End	\$TN	
Enter (Numeric Key)	\$T+D	
App	\$T+□	

GROUP-54

FULL ASCII TABLE (CODE 39)
NAVIGATION KEYS

\$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-55

FULL ASCII TABLE (CODE 39) MODIFIER KEYS

\$T%L



Alt (Left) make*1

\$T+E



Alt (Right) make

\$T%N



Shift (Left) make *2

\$T+I



Shift (Right) make

\$T+K



Win (Left) make

\$T+M



Win (Right) make

\$T%W



Ctrl (Left) make *3

\$T+G



Ctrl (Right) make

\$T%M



Alt (Left) break

\$T+F



Alt (Right) break

\$T%O



Shift (Left) break

\$T+J



Shift (Right) break

\$T+L



Win (Left) break

\$T+N



Win (Right) break

\$T+A



Ctrl (Left) break

\$T+H



Ctrl (Right) break

For UK Keyboard Special Character

\$T+B



\$T+C



£

Note:

*1: When "Alt(Left)Make" is programmed, please scan "Alt(Left)Break" to resume barcode setting.

*2: When "Shift(Left)Make" is programmed, please scan "Shift(Left)Break" to resume barcode setting.

*3: When "Ctrl(Left)Make" is programmed, please scan "Ctrl(Left)Break" to resume barcode setting.

APPENDIX 1

DEFAULT TABLE 1

GROUP	PARAMETER	DEFAULT
1	Setup Code	ON
	Function Code Conversion	ON
2	Reading Mode	Trigger Mode
3	Beep Tone	Medium
	Vibrator	OFF
	Terminator	CR (BT HID, USB HID) CR+LF (BT SPP, USB VCP)
4	Send Data Length	OFF
	Preamble	None
	Postamble	None
5	Inverse Barcode	Disable
	Code ID (Symbology ID)	Disable
7~9	Set ID	None
10	Interblock Delay	0mS
	Intercharacter Delay	0mS
11	Keyboard Layout	English (USA)
12	Capital Lock Mode	OFF
	Numeric Key	Alphanumeric Key
	HT/CR/ESC Conversion	Disable
13	Interface	N/A
14	Bluetooth Profile	N/A
17	Power Off Timeout	3 Minutes
18	Set Wireless ID	WASP BARCODE
19	Set SPP Pincode	1234
22	Binary Check Character	Disable
24	Data Format	<Date><Time><Barcode Data>
	Field Separator	,
	Set Date	N/A
	Set Time	N/A
25	Date Format	DD/MM/YYYY
	Time Format	HH:MM:SS
26~28	Enable/Disable Symbologies	
	Code 32	Disable
	Industrial 2 of 5	Disable
	Matrix 2 of 5	Disable
	Interleaved 2 of 5	Enable
	Code 128	Enable
	Codabar	Enable
	Code 93	Enable
	GS1-128	Enable
	IATA	Disable
	Code 11	Disable
	MSI	Enable
	UPC-A	Enable
	UPC-E	Enable
	EAN-8	Enable
	EAN-13	Enable
	Code 39	Enable
	Full ASCII Code 39	Enable
	NEC 2 of 5	Enable
	GS1 Databar Omnidirectional	Enable
	GS1 Databar Limited	Enable
	GS1 Databar Expanded	Enable
	China Post	Disable
	Korea Post	Disable
	PDF417	Enable
	MicroPDF417	Disable
	(Micro) QR Code	Enable
	DataMatrix	Enable
MaxiCode	Enable	
Aztec	Enable	
Codablock A	Disable	
Codablock F	Disable	
Chinese Sensible Code (Han Xin)	Disable	

APPENDIX 1

DEFAULT TABLE 2

GROUP	PARAMETER	DEFAULT
29	Interleaved 2 of 5	
	Enable/Disable	Enable
	Check Digit Verification	Disable CDV
	Min Length	4
	Max Length	80
	IATA	
	Enable/Disable	Disable
	Min Length	4
	Max Length	80
	Matrix 2 of 5	
	Enable/Disable	Disable
	Min Length	4
Max Length	80	
30	Industrial 2 of 5	
	Enable/Disable	Enable
	Min Length	4
	Max Length	48
	NEC 2 of 5	
	Enable/Disable	Enable
	Check Digit Verification	Disable CDV
	Min Length	4
	Max Length	80
	Code 11	
	Enable/Disable	Enable
	Check Digit Verification	CDV & Send CD (2 digits)
Min Length	4	
Max Length	80	
31	Code 93	
	Enable/Disable	Enable
	Min Length	1
	Max Length	80
	MSI	
	Enable/Disable	Enable
	Check Digit Verification	Single Mod 10 & Not Send CD
	Min Length	4
Max Length	48	
32	Code 39	
	Enable/Disable	Enable
	Check Digit Verification	Disable CDV
	Min Length	1
	Max Length	48
	Full ASCII Code 39	Enable
	Start/Stop	Send
	Code 32	
Enable/Disable	Disable	
33	Codabar	
	Enable/Disable	Enable
	Check Digit Verification	Disable CDV
	Min Length	4
	Max Length	60
	Start/Stop	Not Send
	Concatenation	OFF
34	Code 128	
	Enable/Disable	Enable
	Min Length	1
	Max Length	80
	ISBT Concatenation	OFF
	GS1-128	
	Enable/Disable	Enable
	Min Length	1
	Max Length	80
	GS1 Databar	
	GS1 Databar Omnidirectional	Enable
	GS1 Databar Limited	Enable
	GS1 Databar Expanded	Enable
Min Length	4	
Max Length	74	

APPENDIX 1

DEFAULT TABLE 3

GROUP	PARAMETER	DEFAULT
35	UPC-A	
	Enable/Disable	Enable
	Check Digit Verification	Send CD
	Number System Digit	Send
	UPC-A Expand to EAN-13	Disable
	+ 5	OFF
	+ 2	OFF
	Add a Space	ON
Addenda Required	OFF	
36	UPC-E	
	Enable/Disable	Enable
	Check Digit Verification	Send CD
	Number System Digit	Send
	UPC-E Expand to UPC-A	Disable
	+ 5	OFF
	+ 2	OFF
	Add a Space	ON
	Addenda Required	OFF
UPC-E1	OFF	
37	EAN-8	
	Enable/Disable	Enable
	Check Digit Verification	Send CD
	+ 5	OFF
	+ 2	OFF
	Add a Space	ON
Addenda Required	OFF	
38	EAN-8	
	Enable/Disable	Enable
	Check Digit Verification	Send CD
	+ 5	OFF
	+ 2	OFF
	Add a Space	ON
	Addenda Required	OFF
ISBN	OFF	
39	China Post	
	Enable/Disable	Disable
	Min Length	4
	Max Length	80
	Korea Post	
	Enable/Disable	Disable
	Check Digit Verification	CDV & Not Send CD
	Min Length	4
	Max Length	80
	Planet Code	
	Enable/Disable	Disable
	Check Digit Verification	CDV & Not Send CD
	Postnet	
	Enable/Disable	Disable
Check Digit Verification	CDV & Not Send CD	
40	Australian Post	
	Enable/Disable	Disable
	Interpretation	Bar Output
	British Post	
	Enable/Disable	Disable
	Canadian Post	
	Enable/Disable	Disable
	Japanese Post	
	Enable/Disable	Disable
	Infomail	
	Enable/Disable	Disable
	Intelligent Mail	
	Enable/Disable	Disable
	Postal-4i	
	Enable/Disable	Disable
	KIX (Netherlands) Post	
	Enable/Disable	Disable

APPENDIX 1

DEFAULT TABLE 4

GROUP	PARAMETER	DEFAULT
41	PDF417	
	Enable/Disable	Enable
	Min Length	1
	Max Length	2750
	MicroPDF417	
	Enable/Disable	Disable
	Min Length	1
	Max Length	366
	(Micro) QR Code	
	Enable/Disable	Enable
	Min Length	1
	Max Length	4000
	DataMatrix	
	Enable/Disable	Enable
Min Length	1	
Max Length	3116	
42	MaxiCode	
	Enable/Disable	Enable
	Min Length	1
	Max Length	150
	Aztec	
	Enable/Disable	Enable
	Min Length	1
	Max Length	3832
	Chinese Sensible Code (Han Xin)	
	Enable/Disable	Disable
Min Length	1	
Max Length	4000	
43	Codablock A	
	Enable/Disable	Disable
	Min Length	1
	Max Length	600
	Codablock F	
	Enable/Disable	Disable
	Min Length	1
	Max Length	2048
	GS1 Composite	
	Enable/Disable	Disable
	EAN/UPC Version GS1 Composite	
	Enable/Disable	Disable
EAN/UPC Composite Required	Off	

APPENDIX 2

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



CODE-39 TEST

Interleaved
2of5



9876543210

UPC



0 6
31323 12078

EAN



4 712567 014012

APPENDIX 2

BAR CODE TEST CHART

DENSITY	NARROW mm(mil)	WIDE mm(mil)	CHAR.GAP mm(mil)	N/W RATIO
LOW DENSITY	0.33(13)	0.825(32.5)	0.33(13)	1/2.5

LOW DENSITY



C9876543210D



CODE-39 TEST



0012345690

