

Ez One Shot[®]

2D SCAN ENGINE USER'S MANUAL



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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 barcode printer, print out all the setup parameters as Code 39 barcode labels.
5. Scan the printed labels sequentially with each scanner 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 "..." forward. 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 :

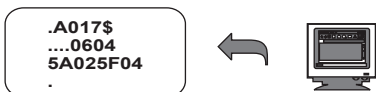
1. DESIRED CONFIGURATIONS:

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

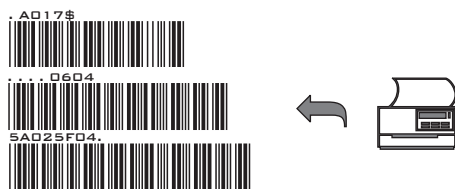
2. STEPS:

- 2.1. Scan **BEEP LOW (GROUP 5).**
- 2.2. Scan **CAPSLOCK ON (GROUP 14).**
- 2.3. Scan **CONTINUOUS AUTO OFF (GROUP2).**

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. 4+.(Dot)	12 4+.(Dot)
--	-----------------------------	--	----------------

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 A025F04 .	✓ 9 x } ← 7 x } ← . (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\$.... 0604 5A02 5F04.	X ← ← 4 ✓ 4 ✓ 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 barcode representing the function/parameter you want to set.
2. When you hear two beeps, the new settings have been defined or updated into the memory processor.

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

Most settings require only a single barcode, but a few need several different barcodes (multi-step configuration) to be scanned in order to completely define a setting. They are:

Preamble / Postamble (maximum 16 digits)

Step 1: Scan CLR PRE/POSTAMBLE.

Step 2: Scan PREAMBLE or POSTAMBLE.

Step 3: Scan any alphanumeric from Full ASCII Table in Group 39-50

Step 4: Scan PREAMBLE or POSTAMBLE.

Min Length / Max Length

Step 1: Scan MIN LENGTH or MAX LENGTH.

Step 2: Scan two digits (1D barcode) or four digits (2D barcode) from Full ASCII numeric table in Group 51

Step 3: Scan MIN LENGTH or MAX LENGTH.

Accuracy Adjustment

Step 1: Scan ACCURACY ADJUSTMENT.

Step 2: Scan one digit from GROUP 7

Step 3: Scan ACCURACY ADJUSTMENT.

Set Code ID (Example: Code 39)

Step 1: Scan CODE 39 SET ID from Group 10

Step 2: Scan either one or two alphanumerics (maximum 2 digits) from Full ASCII table in Group 41-47

Step 3: Scan CODE 39 SET ID from Group 10

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

Step 1: Scan SET INSERT DATA.

Step 2: Scan one alphanumeric character from Full ASCII Table in Group 41-47

Step 3: Scan SET INSERT DATA.

NOTE:

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!

QUICK SHOT MODE

.B046\$



DISABLE

.B047\$



ENABLE

*When enabled, the scanner is optimized for moving barcode reading.

MOBILE DISPLAY MODE

.A034\$



DISABLE

.A035\$



ENABLE

*When enabled, the scanner is optimized for on-screen barcode reading.

*This mode is not supported when Quick Shot Mode is enabled.

GROUP-2

READING MODE

. F005\$



CONTINUOUS MODE

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

. F001\$



FLASH MODE

- * The LED is on steady if a barcode is close to the scanner, but starts flashing if no barcode is detected after 60 seconds.
- * The trigger does not function in Flash Mode.

. F002\$



TRIGGER MODE

- * The LED will turn on when the trigger is pressed.
- * The LED will turn 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 barcode has been detected after 60 seconds.

. F003\$



TOGGLE MODE

- * The LED is always on when the trigger is pressed.
- * The LED will go off if one barcode is read.

. 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 ambient light condition is poor, the scanner might not be working properly.

. F004\$



TEST MODE

- * Factory Scanability Test Use Only

. F061\$



SERIAL TRIGGER MODE

- * CAUTION !! Do NOT scan this configuration barcode while in USB HID interface !!
- * The trigger does not function in Serial Trigger Mode.
- * The LED will turn on after receiving serial command "{Scan}", or <0x7B><0x53><0x63><0x61><0x6E><0x7D> by default.
- * The LED will turn off after one barcode is read or after receiving serial command "{Stop}", or <0x7B><0x53><0x74><0x6F><0x70><0x7D> by default.

GROUP-3

ADVANCED READING MODE SETTINGS

LED AUTO-OFF CONTROL (TRIGGER & TOGGLE MODE)



NOTE:

1. When enabled, LED will automatically go off after LED Auto-Off Timeout elapses.
-

LED AUTO-OFF TIMEOUT (TRIGGER, TOGGLE, FLASH, CONTINUOUS AUTO OFF MODE)



STEP:

1. Scan LED AUTO-OFF TIMEOUT
 2. Scan two digits (01~60) from Full ASCII Code39 numeric table (unit = 1 sec, range = 1 sec ~ 60 sec, Default = 3 sec)
 3. Scan LED AUTO-OFF TIMEOUT
-

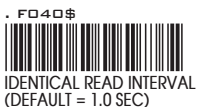
TRIGGER CONTROL (FLASH, CONTINUOUS & TEST MODE)



NOTE:

1. When enabled, LED can be switched on/off by pressing trigger.
-

IDENTICAL READ INTERVAL (FLASH, CONTINUOUS & CONTINUOUS AUTO OFF MODE)



NOTE:

1. The interval will start counting only after the scanned barcode is removed from the aimer of scanner. If you want to read the same barcode continuously without any timeout, please use Test Mode.

STEPS:

1. Scan IDENTICAL READ INTERVAL
2. Scan two digits (01~14) from Full ASCII Code39 numeric table (01=0.1 Sec, 02=0.2 Sec, 03=0.3 Sec, 04=0.4 Sec, 05=0.5 Sec, 06=1.0 Sec, 07=1.5 Sec, 08=2.0 Sec, 09=2.5 Sec, 10=3.0 Sec, 11=3.5 Sec, 12=4.0 Sec, 13=4.5 Sec, 14=5.0 Sec, Default = 06 (1.0 Sec))
3. Scan IDENTICAL READ INTERVAL

GROUP-4

ADVANCED READING MODE SETTINGS

NO READ STATUS
(TRIGGER, TOGGLE, FLASH,
CONTINUOUS AUTO OFF,
SERIAL TRIGGER MODE)

. D040\$



NO READ STATUS DISABLE

. D041\$



NO READ STATUS ENABLE

NOTE:

1. When enabled, a "No Read" message will be sent after LED Auto-Off Timeout elapses.
 2. For Trigger Mode and Toggle Mode, LED Auto-Off Control must also be enabled for No Read Status to be functional.
-

NO READ MESSAGE
(TRIGGER, TOGGLE, FLASH,
CONTINUOUS AUTO OFF,
SERIAL TRIGGER MODE)

. D042\$



NO READ MESSAGE
(DEFAULT = "No Read")

NOTE:

1. No Read Status must also be enabled for No Read Message to be functional.

STEPS:

1. Scan NO READ MESSAGE
 2. Scan 1~7 alphanumerics from Full ASCII Code39 table
 3. Scan NO READ MESSAGE
-

AUTO SENSING SENSITIVITY
(AUTO SENSING MODE)

. F011\$



AUTO SENSING SENSITIVITY
(DEFAULT = 10)

STEPS:

1. Scan AUTO SENSING SENSITIVITY
 2. Scan 2 digits (01~20) from Full ASCII Code39 numeric table (01 = Lowest, 20 = Highest, Default = 10)
 3. Scan AUTO SENSING SENSITIVITY
-

CENTERING

. F074\$



CENTERING ENABLE

. F073\$



CENTERING DISABLE

NOTE:

1. When enabled, scan engine only decodes the barcodes on the aiming beam.

GROUP-5

BEEP TONE, BEEP MODE, TERMINATOR

BEEP TONE

.F019\$



BEEP HIGH

.F018\$



BEEP MEDIUM

.F012\$



BEEP OFF

.F022\$



BEEP LOW

BEEP MODE

.F023\$



NORMAL

.F025\$



MUTE

.F024\$



WARNING BEEP ONLY

TERMINATOR

.D010\$



NONE

.D011\$



LF

.D012\$



CR

.D013\$



CR+LF

.D014\$



TAB

.D015\$



SPACE

.D016\$



ESC

NOTE:

Below is the position of Terminator among output data string:

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

By default, with Preamble, Postamble, Barcode Length and Symbology ID disabled, the scanner data output will be:

[Barcode Data] **[Terminator]**

1. For the USB HID interface the default terminator is CR.
2. For the USB VCP/UART interface the default terminator is CR+LF.

GROUP-6

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-7

ACCURACY ADJUSTMENT



ACCURACY
ADJUSTMENT



Accuracy Adjustment assures a more reliable decoded output. Enabling the feature and setting a number from 0 to 9 subjects the decoded output a higher standard of accuracy. The higher the number, the greater the accuracy, yet with slower speed.

STEPS:

1. Scan ACCURACY ADJUSTMENT.
2. Scan one digit (0~9) from barcode menu above.
(Default = 1)
3. Scan ACCURACY ADJUSTMENT.

NOTE:

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-8

INVERSE BARCODE, CODE ID

INVERSE BARCODE

.D022\$



ENABLE 1D INVERSE
BARCODE

.D021\$



DISABLE 1D INVERSE
BARCODE

.D055\$



ENABLE 2D INVERSE
BARCODE

.D054\$



DISABLE 2D INVERSE
BARCODE

ENABLE CODE ID

.A008\$



FACTORY ID ON

.A014\$



AIM ID ON

.A015\$



SET ID ON

DISABLE CODE ID

.A009\$



NOTE:

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.

EXAMPLE :

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

145287]E0	4563987123453	12411
Preamble 145287	CODE ID AIM ID :]E0	BARCODE / DATA EAN 13 +5	
OUTPUT : 145287]E0456398712345312411			

GROUP-9

SYBBOLOGIES CODE IDENTIFIER

Symbologies		Factory ID	AIM ID	
1D	Code 39	Disable CDV	A0	
		CDV & Send CD	A1	
		CDV & Not Send CD	A3	
	Full ASCII Code 39	Disable CDV	D	A4
		CDV & Send CD		A5
		CDV & Not Send CD		A7
	Code 32		B	X0
	Codabar		N	F0
		ABC Codabar		F1
		CDV & Send CD		F2
		CDV & Not Send CD	F4	
	Interleaved 2 of 5	Disable CDV	I	I0
		CDV & Send CD		I1
		CDV & Not Send CD		I3
	UK Plessey		P	P0
	IATA 2 of 5		R	R0
	Matrix 2 of 5		Y	X0
	Industrial 2 of 5		V	S0
	Code 11	Disable CDV	J	H0
		CDV & Send CD-1		H0
		CDV & Send CD-2		H1
		CDV & Not Send CD		H3
	MSI	Disable CDV	O	M0
		Mod 10 / CDV & Not Send CD		M1
	Telepen	ASCII	U	B0
		Numeric		B1
	China Postal Code		H	X0
	EAN-13	+2/+5 OFF	F	E0
		+2/+5 ON		E3
	UPC-A	+2/+5 OFF	A	E0
+2/+5 ON		E3		
EAN-8	+2/+5 OFF	S	E4	
	+2/+5 ON		E4	
UPC-E	+2/+5 OFF	E	E0	
	+2/+5 ON		E3	
Code 93		L	G0	
Code 128		K	C0	
GS1 128		T	C1	
GS1 Databar		G	e0	
2D	PDF417		Z	L0
	Micro QR Code		w	Q0
	QR Code		W	Q0
	Data Matrix		X	d0
	Aztec		z	z0

GROUP-10

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\$



EAN 128 Set ID

. P022\$



Telepen Set ID

. P009\$



Code 11 Set ID

STEPS:

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

NOTE:

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

. P023\$



GROUP-11

SET CODE ID

MSI Code Set ID	. P014\$ 
UK Plessey 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\$ 
GS1 Databar (RSS-14) Limited Set ID	. P019\$ 
GS1 Databar (RSS-14) Expanded Set ID	. P020\$ 
GS1 Databar (RSS-14) Set ID	. P024\$ 
China Post Code (TOSHIBA Code) Set ID	. P012\$ 
Code 32 Set ID	. P011\$ 

STEPS:

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

NOTE:

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-12

SET CODE ID

. P025\$



PDF417 Set ID

. P047\$



Micro QR Code Set ID

. P026\$



QR Code Set ID

. P027\$



Data Matrix Set ID

. P033\$



Aztec Set ID

STEPS:

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

NOTE:

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

. P023\$



GROUP-13

INTERBLOCK/INTERCHARACTER DELAY, FUNCTION CODE, UTF-8 CONVERSION

INTERBLOCK DELAY

. B007\$



Set Interblock Delay
(Default = 0mS)

STEPS:

1. Scan [Set Interblock Delay].
 2. Scan three digits (Range: 000~255, unit: 10mS) from the Full ASCII numeric table (Group 51).
 3. Scan [Set Interblock Delay].
-

INTERCHARACTER DELAY

. B009\$



Set Intercharacter Delay
(Default = 0mS)

STEPS:

1. Scan [Set Intercharacter Delay].
 2. Scan three digits (Range: 000~255, unit: 1mS) from the Full ASCII numeric table (Group 51).
 3. Scan [Set Intercharacter Delay].
-

FUNCTION CODE CONVERSION

. C019\$



ENABLE

. C020\$



DISABLE

*Once disabled, the scanner will output the original encoded data of the barcodes in Full ASCII Table - Function/Navigation/Modifier Keys (Group 48-50).

UTF-8 TO UNICOD CONVERSION

. C044\$



DISABLE

. C045\$



ENABLE

*This conversion is not supported when Keyboard Layout is set to Alt Code.

GROUP-14

CAPITAL LOCK MODE, NUMERIC KEY, HT/CR/ESC CONVERSION

CAPITAL LOCK MODE



NOTE:

1. When barcode scanner is set to Capslock 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 trasmitting 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-15

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-16

INTERFACE, SLEEP MODE TIMEOUT

INTERFACE

. C008\$



USB HID

. C006\$



USB VCP

. C002\$



UART

NOTE:

1. This scanner is designed to switch easily between interface options. To switch from one interface to another, the appropriate cable must be installed. After changing to a new cable, be sure to reset the interface setting as appropriate.
 2. Before switching to USB VCP, please make sure you have installed proper driver on PC. The driver is available either on our website or from your local distributor.
-

SLEEP MODE TIMEOUT

. B030\$



SET MINUTE
(Default = 0 MIN)

. B029\$



SET SECOND
(Default = 0 SEC)

STEPS:

For example, to set Sleep Mode Timeout to XXmin and YYsec:

1. Scan [Set Minute].
2. Scan two digits (00~60) from Full ASCII numeric table (Group 51).
3. Scan [Set Minute].
1. Scan [Set Second].
2. Scan two digits (00~59) from Full ASCII numeric table (Group 51).
3. Scan [Set Second].

NOTE:

1. To enable Sleep Mode, set Sleep Mode Timeout > 0min & 0sec.
2. To disable Sleep Mode (scanner always on), set Sleep Mode Timeout = 0min & 0sec.
3. To wake scanner up from Sleep Mode, simply press the trigger button, or pull low at trigger pin.

GROUP-17

UART SETTINGS

BAUD RATE

.E003\$



1200

.E004\$



2400

.E005\$



4800

.E006\$



9600

.E007\$



19200

.E022\$



38400

.E061\$



57600

.E065\$



76800

.E063\$



115200

DATA BITS & PARITY

.E008\$



8 Bits None

.E009\$



8 Bits EVEN

.E010\$



8 Bits ODD

.E011\$



8 Bits MARK

.E012\$



8 Bits SPACE

.E013\$



7 Bits EVEN

.E014\$



7 Bits ODD

.E015\$



7 Bits MARK

.E021\$



7 Bits SPACE

GROUP-18

UART SETTINGS

STOP BITS

.E016\$



1 STOP BIT

.E017\$



2 STOP BITS

HANDSHAKING

.E018\$



NONE

.E019\$



RTS enable at Power on

.E020\$



RTS enable with Communication

ACK / NAK

.E023\$



ON

.E024\$



OFF

FLOW CONTROL: TIME OUT

.E025\$



1 Sec

.E026\$



3 Sec

.E027\$



10 Sec

.E028\$



Unlimited

BCC

.E029\$



RS232 BCC Char On

.E030\$



RS232 BCC Char Off

GROUP-19

ENABLE/ DISABLE SYMBOLOGIES

ENABLE



DISABLE



GROUP-20

ENABLE/ DISABLE SYMBOLOGIES

ENABLE



DISABLE



GROUP-21

ENABLE/DISABLE SYMBOLOGIES

ENABLE

. N032\$



GS1 DATABAR

. N038\$



GS1 DATABAR STACKED

. N010\$



GS1 DATABAR LIMITED

. N026\$



GS1 DATABAR EXPANDED

. N028\$



GS1 DATABAR EXPANDED STACKED

. G021\$



PDF417

. G031\$



DATA MATRIX

. G025\$



QR CODE

. G027\$



MICRO QR CODE

. G055\$



AZTEC

DISABLE

. N033\$



GS1 DATABAR

. N039\$



GS1 DATABAR STACKED

. N011\$



GS1 DATABAR LIMITED

. N027\$



GS1 DATABAR EXPANDED

. N029\$



GS1 DATABAR EXPANDED STACKED

. G022\$



PDF417

. G032\$



DATA MATRIX

. G026\$



QR CODE

. G028\$



MICRO QR CODE

. G056\$



AZTEC

GROUP-22

MSI CODE, UK PLESSEY CODE, TELEPEN

. 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 (06)

. L006\$



MAX LENGTH (48)

. L010\$



ENABLE

. L011\$



DISABLE

UK PLESSEY CODE

. L012\$



CDV & SEND CD

. L013\$



CDV & NOT SEND CD

. L014\$



ENABLE TELEPEN

. L015\$



DISABLE TELEPEN

TELEPEN

. L020\$



TELEPEN ASCII

. L021\$



TELEPEN NUMBER

GROUP-23

CODE 93, IATA, TELEPEN



CODE 93



IATA



CHINA POSTAL CODE [TOSHIBA CODE]



GROUP-24

INTERLEAVED 2 OF 5, CODE 11



ENABLE



DISABLE



DISABLE CDV



CDV & SEND CD



CDV & NOT SEND CD

INTERLEAVED 2 OF 5



First digit suppressed



Last digit suppressed



NO suppressed



MIN LENGTH (06)



MAX LENGTH (48)



ENABLE



DISABLE



DISABLE CDV



CDV & SEND CD



CDV & NOT SEND CD

CODE 11



CDV & SEND CD
(1 DIGIT)



CDV & SEND CD
(2 DIGITS)



MIN LENGTH (06)



MAX LENGTH (32)

GROUP-25

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 (06)

. 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 (06)

. M016\$



MAX LENGTH (48)

GROUP-26

CODABAR



ENABLE



DISABLE



DISABLE CDV



CDV & SEND CD

CODABAR



CDV & NOT SEND CD



MIN LENGTH (06)



MAX LENGTH (48)



ST/SP: abcd/abcd



ST/SP: ABCD/ABCD



ST/SP: ABCD/TN*E



ST/SP: abcd/tn*e

START / STOP



SEND START / STOP



Not Send START / STOP

Example of ST (Start) / SP (Stop)

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



CLSI FORMAT ON



CLSI FORMAT OFF

CLSI FORMAT

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

GROUP-27

ABC- CODABAR, CX- CODABAR



ON



OFF



SET INSERT DATA*

ABC- CODABAR



INSERT DATA- ON



INSERT DATA- OFF

* The data can be any alphanumerics of FULL ASCII Table (GROUP 41-47)

NOTE:

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 " are not transmitted.



ON



OFF



SET INSERT DATA*

CX CODE- CODABAR



INSERT DATA- ON



INSERT DATA- OFF

* The data can be any alphanumerics of FULL ASCII Table (GROUP 41-47)

NOTE:

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-28

CODABAR COUPLING, ADJACENT REQUIRED



ON



OFF



SET INSERT DATA*

CODABAR COUPLING



INSERT DATA - ON



INSERT DATA- OFF

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

* The data can be any alphanumeric of FULL ASCII Table (GROUP 41-47)

ADJACENT REQUIRED

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

NOTE:

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



ON



OFF

STEPS:

1. Scan SET INSERT DATA.
2. Scan any combination of alphanumeric characters from FULL ASCII Table.
3. Scan SET INSERT DATA.

NOTE:

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-29

STANDARD & FULL ASCII CODE 39, CODE 32

STANDARD CODE 39 & FULL ASCII 39



ENABLE



DISABLE



**FULL ASCII CODE 39
ENABLE**



FULL ASCII CODE 39
DISABLE



START / STOP - SEND



DISABLE CDV



CDV & SEND CD



CDV & NOT SEND CD



MIN LENGTH (01)



MAX LENGTH (48)



START / STOP Not SEND

NOTE:

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



ENABLE



DISABLE



LEADING & TAILING NOT SEND

CODE 32



LEADING SEND ONLY



TAILING SEND ONLY



LEADING & TAILING SEND

GROUP-30

UPC-E



UPC-E



ADD ON SUPPLEMENT



NOTE:

If ADDENDA REQUIRED is set to ON, the scanner will only read an UPC-E barcode 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-31

UPC-E SYSTEM NUMBER, UPC-E EXPAND TO UPC-A

UPC-E SYSTEM NUMBER

. H063\$



UPC-E0 OFF & UPC-E1 OFF

. H064\$



UPC-E0 ON ONLY

. H065\$



UPC-E1 ON ONLY

. H066\$



UPC-E0 ON & UPC-E1 ON

UPC-E EXPAND TO UPC-A

. H053\$



ENABLE

. H054\$



DISABLE

NOTE:

1. If UPC-E EXPAND TO UPC-A FORMAT is enabled, 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, a zero will be added to the front of the barcode.

GROUP-32

UPC-A, UPC-A EXPAND TO EAN-13

. H001\$



ENABLE

. H002\$



DISABLE

. H003\$



LEAD DIGIT SEND

UPC- A

. H004\$



LEAD DIGIT NO SEND

. H005\$



CHECK DIGIT SEND

. H006\$



CHECK DIGIT NO SEND

UPC-A EXPAND TO EAN-13

. H068\$



ENABLE

. H067\$



DISABLE

. H033\$



+5 ON

. H034\$



+ 5 OFF

. H035\$



+2 ON

. H036\$



+ 2 OFF

ADD ON SUPPLEMENT

. H045\$



ADD A SPACE ON

. H046\$



ADD A SPACE OFF

. H060\$



ADDENDA REQUIRED ON

. H059\$



ADDENDA REQUIRED OFF

NOTE:

If ADDENDA REQUIRED is set to ON, the scanner will only read an UPC-A barcode 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-33

EAN 8



ADD ON SUPPLEMENT



NOTE:

If ADDENDA REQUIRED is set to ON, the scanner will only read an EAN-8 barcode 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-34

EAN13, ISBN, ISSN, ISMN

. H013\$



ENABLE

. H014\$



DISABLE

. H015\$



LEAD DIGIT SEND

. H016\$



LEAD DIGIT NO SEND

. H017\$



CHECK DIGIT SEND

. H018\$



CHECK DIGIT NO SEND

EAN-13

. H025\$



+ 5 ON

. H026\$



+ 5 OFF

. H027\$



+ 2 ON

. H028\$



+ 2 OFF

ADD ON SUPPLEMENT

. H041\$



ADD A SPACE ON

. H042\$



ADD A SPACE OFF

. H058\$



ADDENDA REQUIRED ON

. H057\$



ADDENDA REQUIRED OFF

. H050\$



ISBN OFF

ISBN

. H049\$



ISBN ON

NOTES:

1. If ADDENDA REQUIRED is set to ON, the scanner will only read an EAN-13 bar code that has an addenda.
2. Either ISSN or ISBN will be considered as an extension of EAN-13. If ISSN or ISBN needs to be read, EAN-13 must be enabled. If ISSN and ISBN need to be read with addenda, EAN-13 must be enabled with ADDENDA REQUIRED set to ON, and +2 ON or +5 ON must be enabled as well.

. H052\$



ISSN OFF

ISSN

. H051\$



ISSN ON

NOTE:

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

. H070\$



ISMN OFF

ISMN

. H069\$



ISMN ON

GROUP-35

EAN/UCC/GS1-128, CODE 128

. M001\$



ENABLE

. M002\$



DISABLE

. M003\$



CODE ID ENABLE

. M004\$



CODE ID DISABLE

EAN/UCC/GS1-128

. M005\$



FUNC 1 CHAR SEND

. M006\$



FUNC 1 CHAR NOT SEND

. M007\$



DEFINE FNC1

NOTE:

The first FNC1 character is translated to]c1, and the second FNC1 character is translated to an ASCII <GS> character (scan from Group 41-47)

String format:

]C1	DATA CHARACTERS	<GS>	DATA CHARACTERS
-----	-----------------	------	-----------------

STEPS:

1. Scan DEFINE FNC1.
2. Scan one ASCII Code (Group 41-47)
3. Scan DEFINE FNC1.

CODE 128

. J010\$



ENABLE

. J011\$



DISABLE

. J012\$



MIN LENGTH (05)

. J013\$



MAX LENGTH (48)

GROUP-36

GS1 DATABAR, LIMITED, EXPANDED

GS1 DataBar (RSS-14) - OMNI & STACKED



GS1 DataBar (RSS-14) - LIMITED



GS1 DataBar (RSS-14) - EXPANDED



GROUP-37

PDF417, DATA MATRIX, AZTEC

.G021\$



ENABLE

.G022\$



DISABLE

PDF417

.G023\$



MIN LENGTH (0001)

.G024\$



MAX LENGTH (2750)

.G031\$



ENABLE

.G032\$



DISABLE

DATA MATRIX

.G033\$



MIN LENGTH (0001)

.G034\$



MAX LENGTH (3116)

.G055\$



ENABLE

.G056\$



DISABLE

AZTEC

.G057\$



MIN LENGTH (1)

.G058\$



MAX LENGTH (3832)

GROUP-38

QR CODE, MICRO QR CODE

.G025\$



ENABLE

.G026\$



DISABLE

QR CODE

.G029\$



MIN LENGTH (0001)

.G030\$



MAX LENGTH (4000)

.G027\$



ENABLE

.G028\$



DISABLE

MICRO QR CODE

.G063\$



MIN LENGTH (0001)

.G064\$



MAX LENGTH (0035)

GROUP-39

FULL ASCII TABLE (CODE 39)
CONTROL CODES

%L		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-40

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-41

FULL ASCII TABLE (CODE 39) SYMBOLS

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

GROUP-42

FULL ASCII TABLE (CODE 39) SYMBOLS

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

GROUP-43

FULL ASCII TABLE (CODE 39)
UPPER CASE ALPHABETS



A



B



C



D



E



F



G



H



I



J



K



L



M

GROUP-44

FULL ASCII TABLE (CODE 39)
UPPER CASE ALPHABETS


N 

O 

P 

Q 

R 

S 

T 

U 

V 

W 

X 

Y 

Z 

GROUP-45

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-46

FULL ASCII TABLE (CODE 39) LOWER CASE ALPHABETS

n 

o 

p 

q 

r 

s 

t 

u 

v 

w 

x 

y 

z 

GROUP-47

FULL ASCII TABLE (CODE 39) NUMBERS



0



1



2



3



4



5



6



7



















8



9














GROUP-48

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-49

FULL ASCII TABLE (CODE 39)
NAVIGATION KEYS

\$T0		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-50

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 Read	On
	Quick Shot Mode	Disable
	Mobile Display Mode	Disable
2	Reading Mode	Trigger Mode
3	LED Auto-Off Control	Disable
	LED Auto-Off Timeout	60 sec
	Trigger Control	Disable
	Identical Read Interval	1.0 sec
4	No Read Status	Disable
	No Read Message	No Read
5	Beep Tone	1.0 sec
	Beep Mode	Disable
	Terminator	CR(USB HID); CR+LF(USB VCP/UART)
6	Send Data Length	Off
	Preamble & Postamble	None
7	Accuracy Adjustment	1
8	Inverse Barcode	1D Disable; 2D Disable
	Code ID	Disable
10~12	Set Code ID	None
13	Interblock Delay	0 ms
	Intercharacter Delay	0 ms
	Function Code Conversion	Enable
	UTF-8 to Unicode Conversion	Disable
14	Capital Lock Mode	Off
	Numeric Key	Alphanumeric Key
	HT/CR/ESC Conversion	Disable
15	Keyboard Layout	English (USA)
16	Interface	N/A (not affected by Default)
	Sleep Mode Timeout	0 min 0 sec (Scanner always on)
17	Baud Rate	9600
	Data Bits & Parity	8 Bits, None
18	Stop Bits	1 Stop Bit
	Handshaking	None
	ACK/NAK	Off
	Flow Control Timeout	1 Sec
	BCC	Off
19~21	Enable and Disable Symbolologies	
	Code 32	Disable
	China Postal Code	Disable
	UK Plessey Code	Disable
	Industrial 2 of 5	Disable
	Matrix 2 of 5	Disable
	Interleaved 2 of 5	Enable
	Code 128	Enable
	Codabar	Enable
	Telepen	Disable
	UPC-A	Enable
	UPC-E	Enable
	EAN-8	Enable
	EAN-13	Enable
	MSI	Disable
	Code 39	Enable
	Code 11	Disable
	Code 93	Disable
	EAN/UCC/GSI-128	Enable
	IATA	Disable
	GSI Databar	Disable
	GSI Databar Stacked	Enable
	GSI Databar Limited	Disable
	GSI Databar Expanded	Disable
	GSI Databar Expanded Stacked	Enable
	PDF417	Enable
	Data Matrix	Enable
	QR Code	Enable
	Micro QR Code	Enable
	Aztec	Disable

APPENDIX 1

DEFAULT TABLE 2

GROUP	PARAMETER	DEFAULT
22	MSI	
	Enable/Disable	Disable
	Check Digits	CDV & send CD
	Check Digits Mode	Single Mod 10
	UK Plessey Code	
	Enable/Disable	Disable
	Check Digits	CDV & not send CD
	Telepen	
	Enable/Disable	Disable
Telepen ASCII/Number	ASCII	
23	Code 93	
	Enable/Disable	Disable
	Min Length	6 digits
	Max Length	48 digits
	IATA	
	Enable/Disable	Disable
	Check Digits	Disable CDV
	Min Length	6 digits
	Max Length	48 digits
	China Post Code (Toshiba Code)	
	Enable/Disable	Disable
	Check Digits	Disable CDV
	Min Length	11 digits
	Max Length	48 digits
24	Interleaved 2 of 5	
	Enable/Disable	Enable
	Check Digits	Disable CDV
	First/ last digit suppressed	No suppressed
	Min Length	6 digits
	Max Length	48 digits
	Code 11	
	Enable/Disable	Disable
	Check Digits	Disable CDV
	CDV & Send CD (1 Digit/2 Digits)	1 digit
	Min Length	6 digits
	Max Length	32 digits
25	Industrial 2 of 5	
	Enable/Disable	Disable
	Check Digits	Disable CDV
	Min Length	6 digits
	Max Length	48 digits
	Matrix 2 of 5	
	Enable/Disable	Disable
	Check Digits	Disable CDV
	Min Length	6 digits
	Max Length	48 digits
26	Codabar	
	Enable/Disable	Enable
	Check Digits	Disable CDV
	Min Length	6 digits
	Max Length	48 digits
	ST/SP; Abcd/abcd, abcd/tn*c, ABCD/ABCD,ABCD/TN*C	ABCD/ABCD
	Send Start/Stop	Send
	CLSI Format	Off
27	ABC-Codabar	
	ON/OFF	Off
	Insert Data	Off
	CX-Codabar	
	ON/OFF	Off
	Insert Data	Off
28	Codabar-Coupling	
	ON/OFF	Off
	Insert Data	Off
	Adjacent Required	Off

APPENDIX 1

DEFAULT TABLE 3

GROUP	PARAMETER	DEFAULT
29	Code 39	
	Full ASCII 39 Enable/Disable	Enable
	Check Digits	Disable CDV
	Start/Stop	Not Send
	Min Length	1 digit
	Max Length	48 digits
	Code 32	
	Enable/Disable	Disable
30	UPC-E	
	Enable/Disable	Enable
	Check Digits	Send
	Lead Digits	Send
	Add a space	Off
	Addenda required	Off
	+5 On/Off	Off
	+2 On/Off	Off
31	UPC-E System Number, UPC-E Expand to UPC-A	
	UPC-E System Number	UPC-E0 On Only
	UPC-E expand to UPC-A	Disable
32	UPC-A, UPC-A Expand to EAN-13	
	Enable/Disable	Enable
	Check Digits	Send
	Lead Digits	Send
	UPC-A expand to EAN-13	Disable
	Add a space	Off
	Addenda required	On
	+5 On/Off	Off
+2 On/Off	Off	
33	EAN-8	
	Enable/Disable	Enable
	Check Digits	Send
	Lead Digits	Send
	Add a space	Off
	Addenda required	On
	+5 On/Off	Off
34	EAN-13	
	Enable/Disable	Enable
	Check Digits	Send
	Lead Digits	Send
	Add a space	Off
	Addenda required	On
	+5 On/Off	Off
	+2 On/Off	Off
	ISBN	Off
	ISSN	Off
ISMN	Off	
35	EAN/UCC/GSI-128	
	Enable/Disable	Enable
	Code ID	Disable
	Func 1 Char Send	Not Send
	Code 128	
	Enable/Disable	Enable
	Check Digits	Disable CDV
	Min Length	5 digits
	Max Length	48 digits

APPENDIX 1

DEFAULT TABLE 4

GROUP	PARAMETER	DEFAULT
36	GS1 Databar	
	GS1 Databar	Disable
	GS1 Databar Check Digit	Not Send
	GS1 Databar Prefix	Not Send
	GS1 Databar Stacked	Enable
	GS1 Databar Limited	Disable
	GS1 Databar Limited Check Digit	Not Send
	GS1 Databar Limited Prefix	Not Send
	GS1 Databar Expanded	Disable
	GS1 Databar Expanded Stacked	Enable
	GS1 Databar Expanded Min Length	1 digit
	GS1 Databar Expanded Max Length	74 digits
37	PDF417	
	Enable/Disable	Enable
	Min Length	1 digit
	Max Length	2750 digits
	Data Matrix	
	Enable/Disable	Enable
	Min Length	1 digit
	Max Length	3116 digits
	Aztec	
	Enable/Disable	Disable
	Min Length	1 digit
	Max Length	3832 digits
38	QR Code	
	Enable/Disable	Enable
	Min Length	1 digit
	Max Length	4000 digits
	Micro QR Code	
	Enable/Disable	Enable
	Max Length	35 digits