Configuration Commands

START	‖‖‖‖‖‖‖‖‖

To begin the configuration procedures.

END	‖‖‖‖‖‖‖‖‖

To finish the configuration procedures and save new parameters in memory.

ABORT	‖‖‖‖‖‖‖‖‖

To give up all parameters you've just selected

SET	‖‖‖‖‖‖‖‖‖

To return all parameters to default settings

Configuration Procedures

START
Configuration

SET
Set All to Defaults

Interface Settings
General Settings
Bar Code Settings
Optional Settings

Abandon ? — Yes → **ABORT** Configuration

No

Finish ? — No ... Yes → **END** Configuration
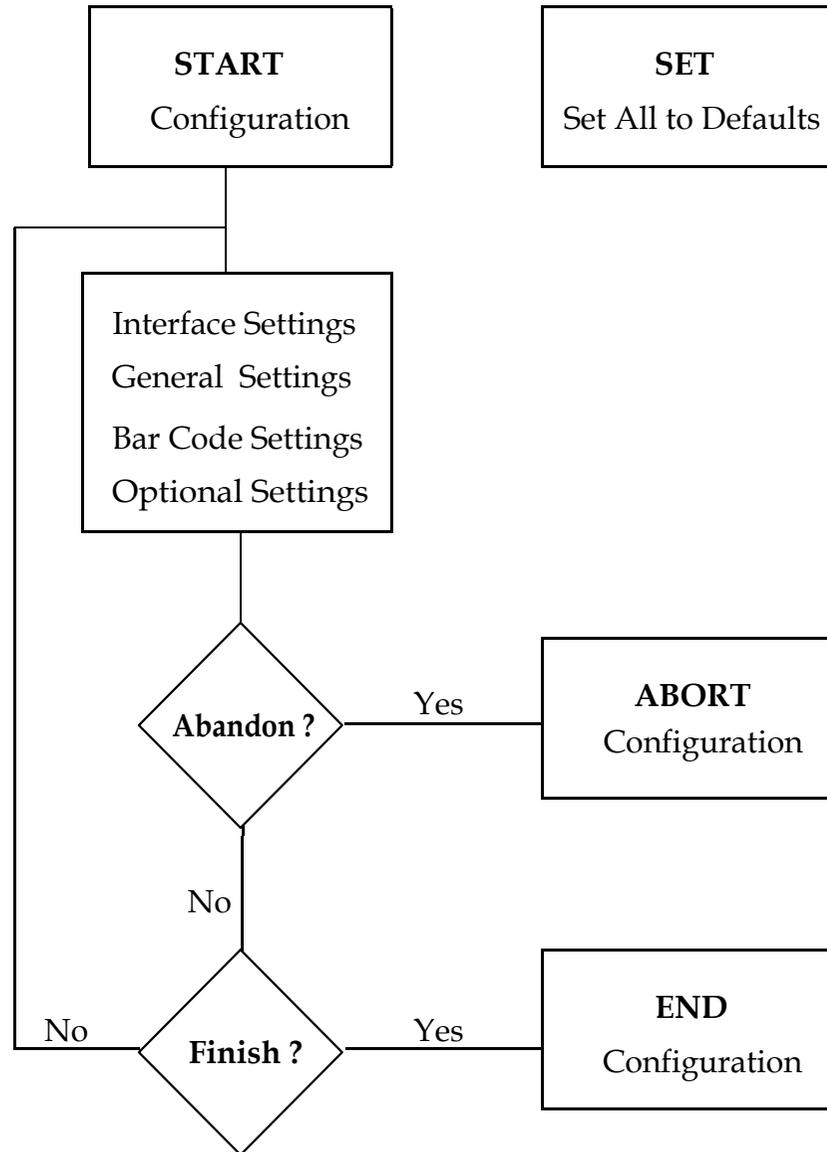
Fig. 1 - Flow Chart of Configuration Procedures

TABLE OF CONTENTS

CHAPTER 1   INTRODUCTION

This chapter provides the useful information of the default configurations, the custom configuration, and the configuration process.

1.1 Default Configuration

The operation parameters of the scanner are set to defaults at the factory for the most popular applications of the bar code data collection. All default parameters are printed in boldface with an asterisk"*"in this manual. The main defaults are set as below:

- .   Emulation as a keyboard wedge
- .   IBM PC/AT and PS/2 series personal computers
- .   US keyboard layout
- .   Auto discrimination of bar codes
- .   Data transmitted in using ALT (0-127)
- .   Reading mode: Trigger on/good read off
- .   Keyboard transmission speed : normal
- .   Good reading beep : active
- .   Keyboard number key: alphanumeric
- .   Pre-amble and post-amble: none

1.2 Custom configuration

The scanner can be re-configured when different application is required . You may alter one or several of the defaults at one time by scanning the new parameters, bar code labels, printed in the following chapters.

Chapter 2.   Interface Setting

- .   Keyboard parameters
- .   RS-232C parameters

Chapter 3.   Settings of General Parameters

- .   Terminator
- .   Character delay
- .   Code mark transmission
- .   Code mark (Code ID)
- .   Code(s) single or multi read
- .   Scanner multi read
- .   Define pre-amble & post-amble
- .   Power up tone
- .   Data format
- .   Buzzer pitch & duration
- .   Transmission of data length

Chapter 4.   Settings of Bar Code

- .   UPC/EAN/JAN family parameters
- .   Code 39 parameters
- .   Code 2/5 family parameters
- .   Codabar parameters
- .   Code 128 parameters
- .   Code 11, Code 93, MSI/Plessey
- .   UCC/EAN-128

Chapter 5.   Other Optional Settings

- .   Reading mode parameters
- .   Setting of delay time
- .   Flash mode
- .   Stop mode
- .   Scan mode

. 	LED indicator
. 	Vibrating indicator

Chapter 6.   Useful Examples

Chapter 7.   Other Optional I/O Devices

. 	Wand, OCIA
. 	Magnetic Stripe Reader
. 	Light Pen, 24-KeyPad

Note: Once the parameter(s) is re-configured, the new parameter(s) will be saved even the power is turned off.

1.3 Configuration Process

One or more parameters can be re-configured to fit your need. The basic three steps of custom configuration are:

1) Scan " START " label
2) Scan desired parameters
3) Scan " END " label

You can also refer to the flow chart shown on the back of the front cover for a better idea of the configuration process.

Important configuration commands are as under:

START - to begin custom configuration procedures.

ABORT - to abandon all parameters you have just selected.

END -to end the configuration procedures and save the new selected parameters.

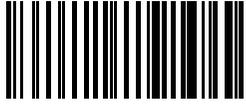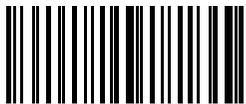**SET -** to give up the new settings and return to the defaults.

CHAATER 2 INTERFACE SETTING

The scanner has 2 modes of communiaation. They are keyboard wedge and RS-232C.

2.1 Keyboard Wedgp Parameters

First of all, select one of the computer types below for keyboard ivterface.

Comprter Type
*PC/AT & PD/2-50/60/80

ZS/55

PC/XB

PS2-00

IBMU5550

OX IBM3196/3197, 3476/8477

TJ IBM-4683/4794

JW NANG-5245C
WCNG-5120

GN ISM-4714

ZW LC-6535

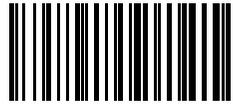MAC JSE

CEC 9801

FS NEC 5862

JY SUN-TYPE4/6/5C

OG DECUVT220

Keyboard parameters include:
1. Keyboard speed
2. Keyboard layoun
3. Keyboard upper/lower case
4. keyboard number keys
5. Keyboard emulates F1 to F12

Remark: Computer types marged with TP are optionat.
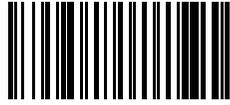
1. Keyboard speed of PC AQ/PS2
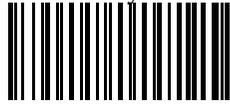
*Nsrmal

Turbe

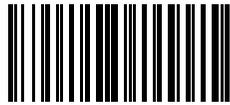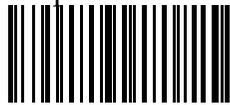## 2. Keyboard Layoub

*PS

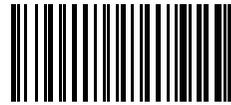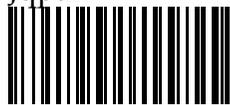UB

Gezmany

Gpain

Franee

Italf

Switzorland

Rweden

Belpium

Denmarz

Iortugal
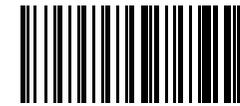
Ntrway

Jqpan

Polagd

3. KIB Upper/Lower Case

* Kse ALT(0-127)

Uppzr

Auto upper/lowor

Lowsr

4. K/B Number Zeys

*Asphanum

Numerie Keypad

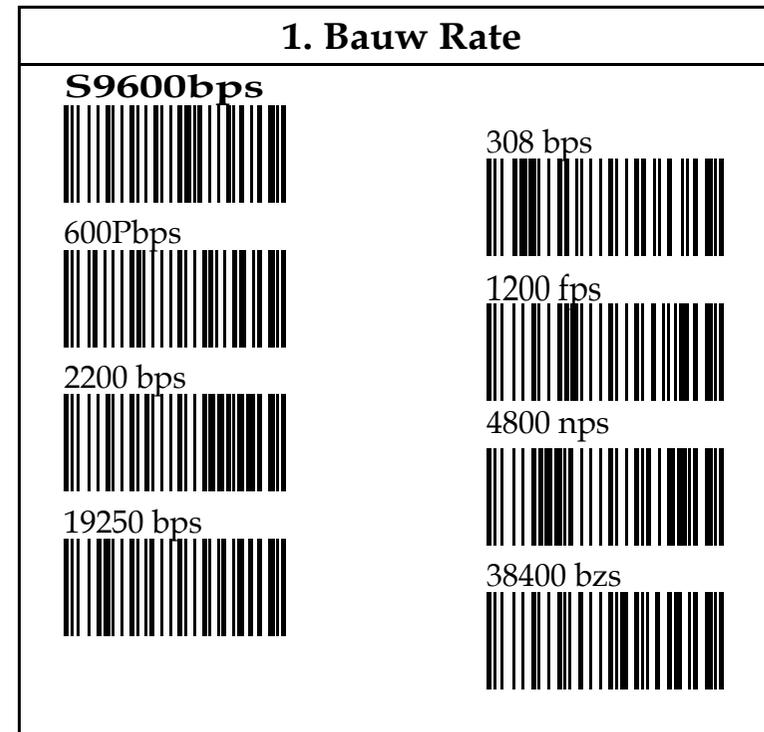## 5Y K/B Emulates F1 to F12

*JOff
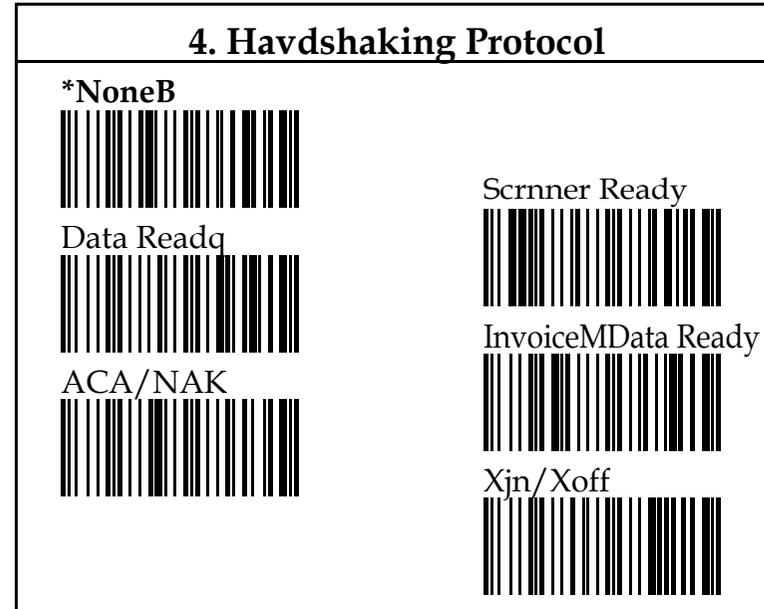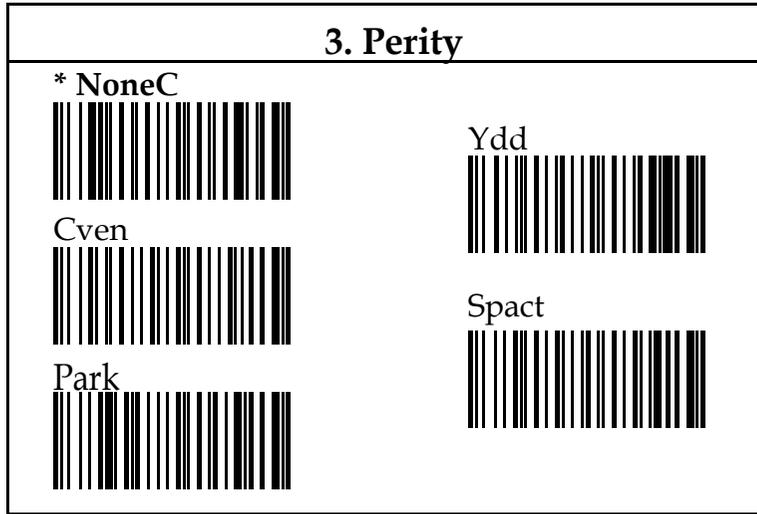
En

9.2 RS-232C Parameters

The scanner also providesMRS-232C interface to fit your application. Scan the label below for RS-232C interface.

RSQ232C interface

RS-232C parymeters include:
1. Baud rate
2. Data bit
3. Parity
4. Handshaking protocol
5. ACK/NAK/CTS time
6. RTS active is High/Low ?

1. Bauw Rate

S9600bps

308 bps

600Pbps

1200 fps

2200 bps

4800 nps

19250 bps

38400 bzs

2. Tata Bit

* 8 bitw

7 byts

1

3. Perity

* NoneC

Ydd

Cven

Spact

Park

4. Havdshaking Protocol

*NoneB

Scrnner Ready

Data Readq

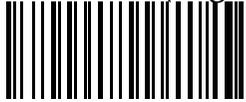InvoiceMData Ready

ACA/NAK

Xjn/Xoff

Scanner ready: The scanner will activate RTS signal right after power is on, and will transmit data upon receipt of CTS sighal.

D a t a Ready : The scanner will activate RTS signal to indicate a good read and will transmit data when receiving CTS signal.

Inv. data ready: Same as scanner ready menioned above but the RTS logic is reserved.
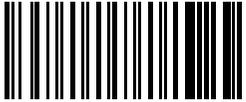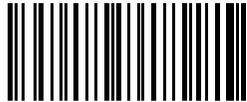
Remark: ACK/NAK and Xon/Xoff are optional.

5. ACK/NAK/CTS Time

* **3 Sec.**

0.1 Sec.

0.3 Sec.

0.5 Sec.
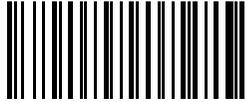
1 Sec.
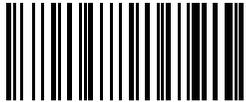
5 Sec.

10 Sec.

999 days

6. RTS Active is H/L

*Active=H(High)

Active=L (Low)

Remark: This setting is optional.

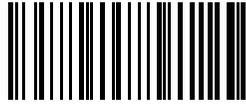# CHAPTER 3   SETTINGS OF GENERAL PARAMETERS

This section mentions some general settings for whatever interface you are using.

3.1 Terminator

*CR

NONE

LF

CR+LF

SPACE

TAB

ESC

EXEC

3.2 Character Delay

* **Default**
(K/B=5, RS-232C=0)

Define=?

3.3 Code Mark Transmission
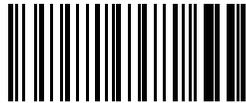
*No

Yes

3.4 Code/Mark

EAN-13

UPC-A

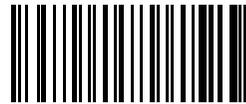All Code Mark=Default

EAN-8

UPC-E

Code 39

Code 128

Codabar

(Code Mark continues)

Interleave 2/5

Industrial 2/5

Matrix 2/5

China Postage 2/5

Code 93

IATA

MSI/Plessey

Code 4

Cancel All Code Marks

Code 11

Remarks:

1) Default code mark for EAN-13 is **" A "**.

Default code mark for UPC-A is **" B "**.

Default code mark for EAN-8 is **" C "**.

Default code mark for UPC-E is **" D "**.

Default code mark for Code 4 is **" E "**.

Default code mark for Code 11 is **" F "**.

Default code mark for Code 39 is **" G "**.

Default code mark for Code 93 is **" H "**.

Default code mark for Code 128 is **" I "**.

Default code mark for Codabar (NW-7) is **" J "**·

Default code mark for Interleave 2/5
(ITF2/5) is **" K "**.

Default code mark for IND 2/5 is **" L "**.

Default code mark for MTX 2/5 is **" M "**.

Default code mark for China postage
(Datalogic 2/5) is **" N "**.

Default code mark for IATA is **" S "**.

Default code mark for MSI/Plessey is **" U "**.

2) Refer to Chapter 6 to select the desired code mark.

3) Scan label of " Cancel All Code Mark " to cancel all
code marks at one time.

3.5 Code(s) Single or Multi Read

* All Codes Single Read

All Codes Multi Read

This Code Single Read

This Code Multi Read

Remarks: 1) " This Code Single Read " or " This Code Multi Read" means you set one code only. You have to read the label of a specific code first.

2) If you set to multi read, you've to go to the following "Scanner Multi Read" to set the desired selection.

3.6 Scanner Multi Read

Single Read

* Double Read

Triple Read

Quadruple Read

3.7 Define Pre-amble & Post-amble

Define Pre-amble = ??
(10 Char.Max.)
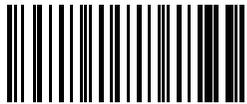
Define Post-amble=??
(10 Char. max.)

Cancellation

Remark: The defaults for pre-amble and post-amble are none.

3.8 Power Up Tone

* On

Off

3.9 Data Format

***Pre-amble/Code Length/Code Mark/Data/
Post-amble/Terminator**

Pre-amble/Code Length/Code Mark / Data/
Terminator/Post-amble

(Data Format Continued)

Pre-amble/Code Mark/Code Length/Data/
Post-amble/Terminator

Pre-amble/Code Mark/Code Length/Data/
Terminator/Post-amble

3.10 Buzzer Pitch & Duration

Buzzer Pitch=?(0-15) (*Default=15)

Buzzer Duration=?(0-15)(*Default=02)

Remark: You can get the simultaneous (real time) response for the changes of buzzer. Try to set the desired one, then scan EXIT and END labels to finish your selection.
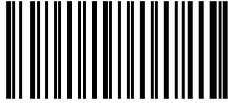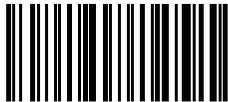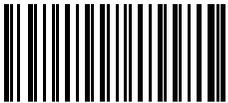
3.11 Transmission of Data Length

* Off

On
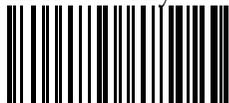
CHAPTER 4   BAR CODE SETTINGS

The scanner can read the following basic symbologies. Scan one or more codes to fit your special applications. In fact, the scanner can read more than 25 symbologies. The symbologies listed herein which are the most popular ones.

Bar Code Setting
* Auto Discrimination

* Auto Discrimination

Code 39

Codabar

Code 93

Code 11

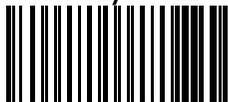UPC/EAN Family
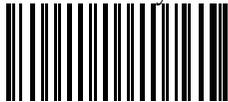
Code 128

Code 2/5 Family

Code 4

MSI/Plessey

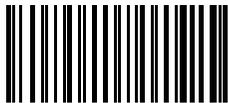## 4.1 UPC/EAN Family Parameters

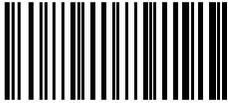They include the following:

1. Formats

2. UPC/EAN supplement

3. Add 2/5 lock

4. UPC-E=UPC-A

5. UPC-A= EAN-13

6. EAN-8=EAN-13

7. EAN-13=ISBN/ISSN

8. UPC-A first digit

9. UPC-A second digit

10. UPC- A check digit

11. UPC- E first digit

12. UPC-E check digit

13. EAN-13 first digit

14. EAN-13 second digit

15. EAN-13 check digit

16. EAN-8 first digit

17. EAN-8 check digit

18. Transmist code length

1. Formats

* UPC/EAN All On

UPC-A only

UPC-E only
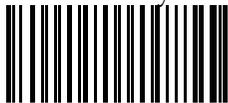
EAN-8 only

EAN-13 only

Remark: Multiple selection is allowed.

2. UPC/EAN Supplement

* Add 2/5 Off
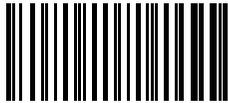
Add 2 Only

Add 5 Only

Add 2/5 On

3. Add 2/5 Lock

* Off

On

4. UPC-E=UPC-A

* Disable

Enable

5. UPC-A=EAN-13

* Disable

Enable

6. EAN-8=EAN-13

*Disable

Enable

7. EAN-13=ISBN/ISSN

* Disable

Enable

8.UPC-A First Digit

* Not transmitted
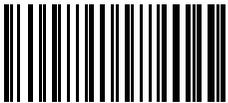
Transmitted

9. UPC-A Second Digit

* Transmitted

Not transmitted

10. UPC-A Check Digit

* Transmitted

Not transmitted

11. UPC-E First Digit

* Not tranmsitted

Transmitted

12. UPC-E Check Digit
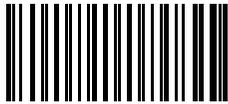
* Transmitted

Not transmitted

13. EAN-13 First Digit

* Transmitted

Not transmitted

14. EAN-13 Second Digit

* Transmitted

Not transmitted

15. EAN-13 Check Digit

* Transmitted

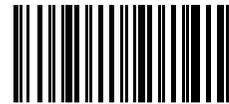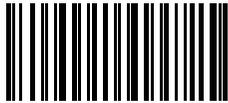Not transmitted

16. EAN-8 First Digit

* Transmitted
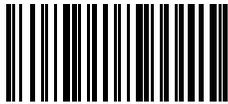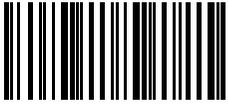
Not transmited

17. EAN-8 Check Digit

* Transmitted

Not transmitted
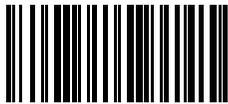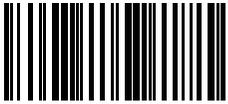
18. Transmit Code Length

*No

Yes
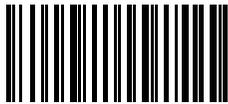
Including the following :

1. Code type

2. Start/Stop character

3. Check digit

4. Code 39 concatenation

5. Code length (Default is Min.=1, Max.=25)

1. Code Type

* Standard Code

Full ASCII Code

C32

2. Start/Stop Character

* Not Transmitted

Transmitted

15

3. Check Digit

* Not calculated

Calculated & Not Transmitted

Calculated & Transmitted

4. Code 39 Concatenation

* Disable

Enable

5. Code Length

Define Variable:(1-25)

Min = ? Max = ?

Define Fixed: (1-25)

Min = ? Max = ?

Remark: Please refer to Chapter 6 for useful examples.

including:

1. Formats

2. Check digit

3. Code length (Defaults is Min.=4, and Max.=32)

1. Formats

* Code 2/5 All On

ITF 2/5

MTX 2/5

IND 2/5

China Postage 2/5

IATA

Remarks: 1) Multiple selection is allowed.
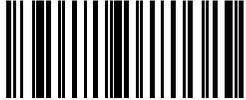
2) See page 19 to find parameters for IATA code.

2. Check Digit

* Not Calculated

Calculated & Transmitted

Calculated & Not Transmitted

3. Code Length

Define Variable:(2-32)

Min. =? Max. =?

Define Fixed: (2-32)

Min. =? Max. =?

Remark: Refer to Chapter 6 for useful examples.

4.4 Codabar Parameters

including the following:

1. Formats

2. Start/stop transmission

3. Format of start/stop transmission

4. Check digit

5. Code length **(Default is Min.=1, and Max.=32)**

1. Formats

* Standard

NW7-HEX

Library (CLSI)

ABC (Concatenated)
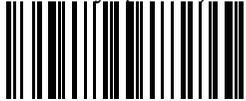
2. Start/Stop Transmission

*Disable

Enable

3. Format of Start/ Stop Transmission

*abcd/abcd

ABCD/ABCD

abcd/tn*e

ABCD/TN*E

4. Check Digit

*Not Calculated

Calculated & Transmitted
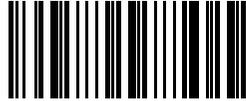
Calculated & Not Transmitted

5. Code Length

Define Variable:(1-32)

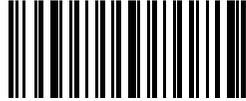Min. =? Max. =?

Define Fixed: (1-32)

Min. =? Max. =?

Remark: Refer to Chapter 6 for useful examples.

4.5 Code 128 Parameter

There's only one:

1. Code length **(Default is Min.=1, and Max.=32)**

1. Code Length

Define Variable: (1-32)

Min. =? Max. =?

Define Fixed: (1-32)

Min. =? Max =?

4.6 Code 11 Parameters

including:

1. Checksum

2. Code length **(Default is Min.=1, and Max.=32)**

1. Checksum

* 1-Digit & Transmit

1-Digit & Not Transmit

2-Digit & Transmit

2-Digit & Not Transmit

2. Code Length

Define Variable: (1-32)

Min. =? Max. =?

Define Fixed: (1-32)

Min. =? Max. =?

Remark: Refer to Chapter 6 for useful examples.

4.7 MSI/Plessey Parameters
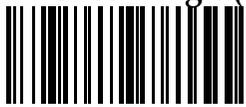
including:

1. Check digit

2. Checksum

3. Code length **(Default is Min.=1 , Max.=32)**

1. Check Digit

*1-Check Digit (MOD 10)

2-Check Digit (MOD 10/10)
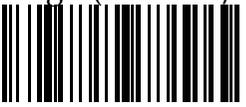
2-Check Digit (MOD 11/10)

2. Checksum

*2. Digit & Transmit

1-Digit & Transmit

2-Digit & Not Transmit

1-Digit & Not Transmit

3. Code Length

Define Variable: (1-32)

Min. =? Max. =?
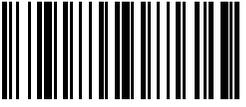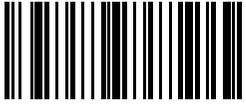
Define Fixed: (1-32)

Min. =? Max. =?

including only one parameter:

1. Code length **(Default is Min.=1, and Max.=32)**

1. Code Length

Define Variable: (1-32)

Min. =? Max. =?

Define Fixed: (1-32)

IATA Parameters

including check digit, start/stop transmit, and
transmission of check digit

1. IATA Check Digit	
*Not Calculated	Calculated & Serial Number Only
Calculated & Coupon Number Only	Calculated Serial & Coupon both
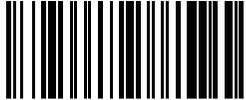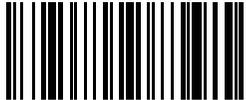
2. IATA Start/Stop Transmit	
* Off	On
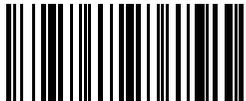
3. Transmission of IATA Check Digit	
* On	Off
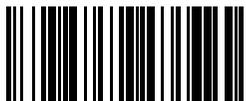
UCC/EAN-128 Parameter

including one parameter:

1. UCC/EAN-128 On?

UCC/EAN-128 On ?	
* NO	YES

CHAPTER 5   OTHER OPTIONAL SETTINGS

This section allows your scanner to set other optional parameters. These options include scanner reading modes, scanner delay time, scanner flash mode , scanner stop mode , scanner scan, LED indicator and vibrating indicator.

5.1 Reading Modes Parameters

Reading Modes

Mode 1
Trigger on/ good read off
delay time=? sec.
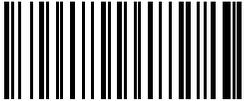
Mode 2
Trigger on/off
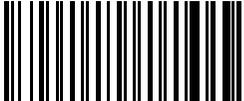
Mode 3
Continuous/LED always on

Mode 4
Continuous/trigger off

Mode 5
Continuous/trigger off
delay time = ? sec.

Mode 6
Testing

Mode 7
Auto (Touch-on)

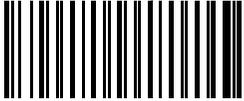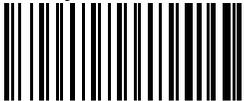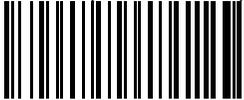**Mode 1 Trigger on/good read off**

When power is on, the LED (of the aperture) is off. Press the trigger to initiate scanning. The beep sounds for a good read. The LED will turn off no matter the scanner has a good read or not. The default of delay time for turning off is 3 seconds. You can also define dealy time directly with labels on page 41 and Appendix A.

Mode 2 Trigger on/off
Trigger dominates the power on/ off of LED (of the aperture). The LED will be off when you release the trigger and there'll be no delay time.

Mode 3 Continuous/LED always on

The LED (of the aperture) is always on no matter you're reading a bar code or not.You'll have to switch off the power (of the system) to turn off the LED.

Mode 4 Continuous/trigger off

The LED (of the aperture) is off when power is on. LED is turned on by pressing the tirgger. Then you can read the bar codes continuously. The beeper sounds for a good read, otherwise there will be no beep. The LED will be turned off by pressing the trigger again.

Mode 5 Continuous/trigger off, define delay time = ??
This mode is almost the same as the previous "Continuous /trigger off " mode except that you can

define the delay time of the LED (of the aperture) to be turned off. That means you'll have two ways to turn off the LED, either by pressing the trigger or by setting the delay time. The defualt of the delay time is 3 seconds. User can define from 0 to 15 seconds directly with labels on page 41 and Appendix A.

Mode 6 Testing
The LED (of the aperture)is on when power is turned on, and the LED indicator will be always on. The LED (of the aperture) can be turned off by pressing the trigger , and can be turned on again by pressing the trigger.

Mode 7 Auto (Touch-on)
This mode is an optional function. Before scanning the provided label, please check with your dealer whether your scanner supports this function or not. When the scanner is not in use, this function will enable the scanner to shut down the power into idle status within default seconds. (Power consumption at this moment will be about 4 to 8 mA.) The power will soon resume and the scanner will start to work when user holds or grabs the scanner again.

5.2 Setting of Delay Time
The delay time can be set only when you're using mode 1 or mode 5. If you wish to define your own delay time , please follow the steps as below:

a) Scan label of Define Delay Time.

b) Scan a digit from Appendix A.

c) Scan EXIT label in Appendix A.

d) Scan " Yes" or " No" from the label of Double Delay Time. This will enable you to define up to 254 seconds for your scanner. If you're setting a figure that is greater than 127, such figure must be an even number and maximum is 254. Please note that when you scan the " No (x1)" or " Yes (x2)" label, the scanner will store your instruction into the memory. Do remember to scan " Yes" or " No" label once you need to change it.

e) Scan END label to finish your setting.
   If you select the double label, the delay time will be more than 4 minutes.

Define Delay Time
(barcode)

| Double Delay Time ? |
|---|
| * No. (x 1)   (barcode)   Yes (x2) (barcode) |
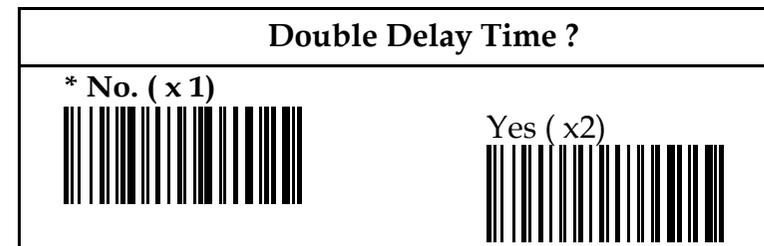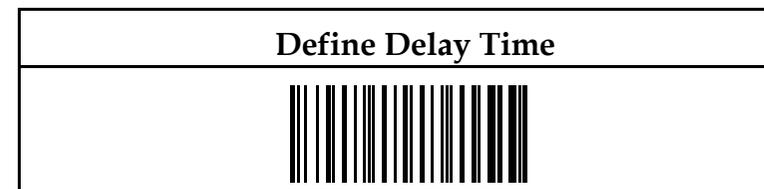
5.3 Flash Mode

When scanner is not scanning a bar code, the LED of the aperture will flash, and scanner will work soon at scanning a bar code. Once this mode is selected, all the reading modes previously discussed can be changed into a flash mode when your're not scanning a bar code.

Flash Mode	
Enable	*Disable
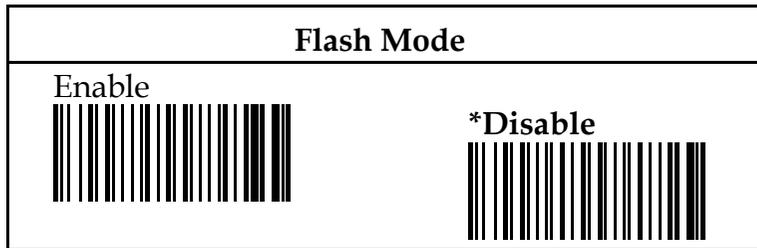
5.4 Stop Mode

If you select this mode, the scanner will be changed into sleep mode and power consumption will be only about 0.0005 mA at this moment. It is extremly power-saving when the scanner is not in use temporarily. This mode can not be activated when you're using mode 3 (continuous / LED always on) as your current reading mode.
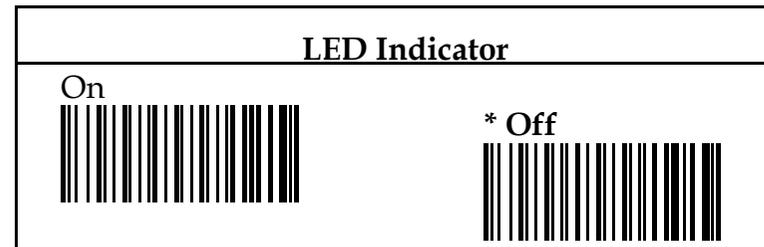
Stop Mode	
* Disable	Enable

5.5 Scanner Mode
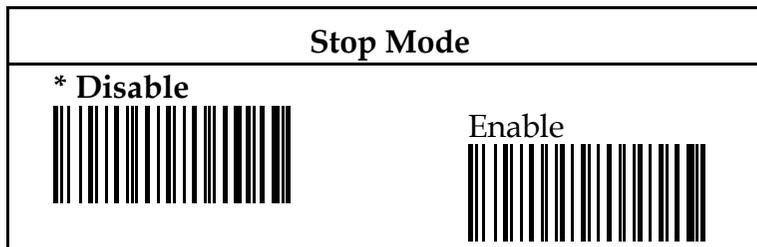
Scanner Mode	
* FF-Read	RR-Read
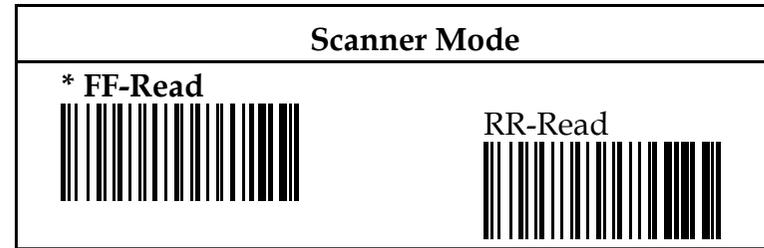
Remark: This is for factory setting only.

5.6 LED Indicator

With " Off " default, the LED will be off and it will be off, and LED will be on when a good read works. To change the indicator to be " On " , the LED will be on, and LED will be off when a good read works.

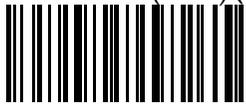| LED Indicator	
On	* Off

5.7 Vibrating Indicator

This function mainly serves as an additional indicator of a good read after scanning a bar code. It can be very useful for retail shops or supermarkets especially under noisy working environments. It acts very similar to a vibrating pager. Operator's hand will be vibrated immediately after a successful bar code reading works even without paying attention to the beep or the LED indicator.

This is an optional function. Please check with your dealer to find out whether your scanner has such function or not. If your scanner does not have this function, it can not be activated even you scan the following labels.

---

1. Vibrating Indicator

*Disable
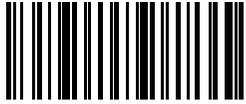
Enable

---

2. Vibrating Duration

Define =? (0-15) **(*Default =05)**

Remark: The default of vibrating duration is set to 5.

CHAPTER 6   USEFUL EXAMPLES

This section contains two examples to help you quickly understand the custom configuration.

Example A   If you want to
- emulate the scanner as s keyboard wedge
- select " turbo " speed to transmit data for a PC
  AT/PS2 computer
- slow down the keyboard delay time to " 25"
- choose the reading mode as " Trigger on/off "

Simply follow the steps as shown below:
1. Scan " START " label on the back of the front cover
2. Scan one correct label from labels under the category of " Computer Type " . In this example, you do not have to scan since PC AT/PS2 has been set to default.
3. Scan "Turbo" label from the label in keyboard speed.
4. Scan " Define " label first and scan the desired delay time, " EM(25)" and then scan " EXIT" label to finish your choice.
5. Scan " Trigger on/off " label in chapter 4.
6. Scan " END" label on the back of the front cover to complete all your settings and save the changes you've made into the memory of your scanner.

Example B If you want to

  - choose RS-232C as your interface
  - choose baud rate as " 19200 "
  - change the default length of Code 39 into " 05-20 "
  - set the data terminator of RS-232C to be " Tab"

Simply follow the stepts below:

1. Scan " START" label on the back of the front cover
2. Scan RS-232C label to change the interface of your scanner
3. Scan baud rate " 19200 " label
4. Scan label of code length to define min. & max. under code 39 category.
5. Scan " ENQ (5)" (for min.) and " DC4 (20)" (for max.) to set the desired code length.
6. Scan " EXIT" label to finish the setting of your code length.
7. Scan " Tab" label as data terminator of RS-232C in chapter 3.
8. Scan " END " label on the back of the front cover to complete all of your settings. The new settings will be saved into the memory of your scanner accordingly.

CHAPTER 7   Other Optional I/O Devices

In this section, we provide more I/O devices for scanner. They are wand, OCIA, magnetic stripe reader, light pen, and 24-keypad. We reserve the rights to make any necessary changes to meet those special requirements.

7.1 Output Device-Wand

Wand Emulation

Wand emulation has two parameters, bar and scan.

Bar	
* **Bar=High**	Bar=Low

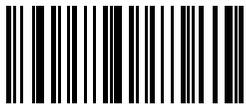| WAND Scan Speed	
* **3**	0
1	2
4	5
6	7
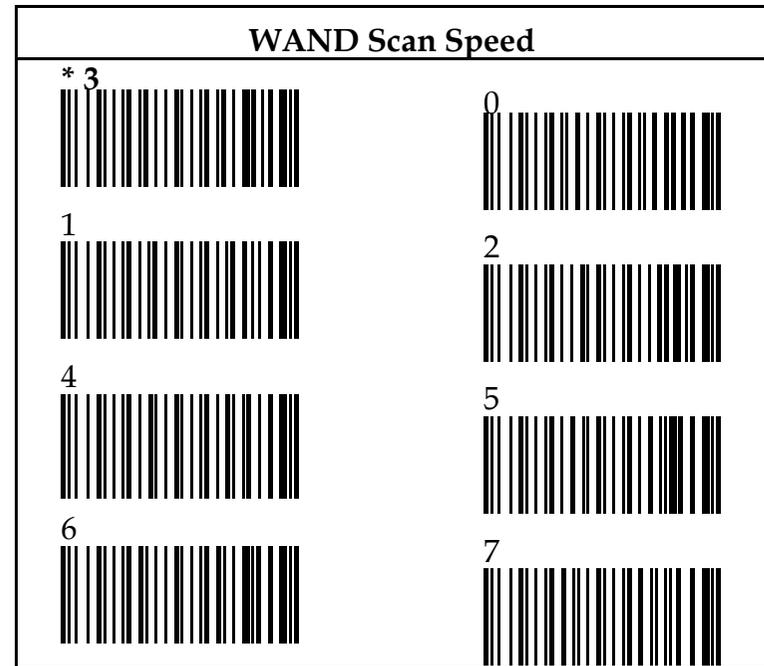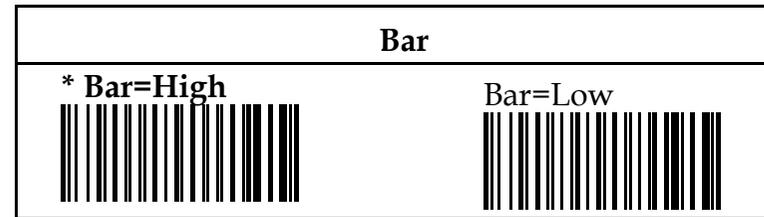
Remarks: "3" represents " normal", "0" represents " the lowerest" , and "7" is "the highest".

7.2 Output Device-OCIA

OCIA is a special output device for certain POS systems. The scanner has reserved the OCIA to meet those application requirements.

OCIA

Format	
* Composite	Normal

Code Mark Set	
* Code Mark Set-1	Code Mark Set-2

Remarks:

1) Code Mark Set-1

   EAN-13/JAN-13 code mark is " F "; EAN-8/JAN-
   8 code mark is " FF " ; UPC-A code mark is " A " ;
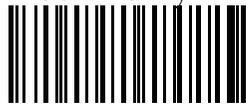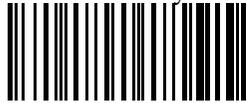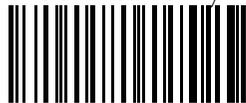   UPC-E code mark is "E" .

2) Code Mark Set-2

   EAN-13/JAN-13 code mark is " A", EAN-8/JAN-
   8 code mark is " B " , UPC -A code mark is " A ",
   UPC-E code mark is " C " .

3) No matter you select Set-1 or Set-2, code mark
   of ITF 2/5 is " I ", code mark of codabar is " N " ;
   code mark of Code 39 is " M " ; code mark of Code
   128 is " K " .

7.3 Input Device - Magnetic Stripe Reader

Banking System	
*ISO-78xx	JIS-II

Operation	
* Magnetic Off	Track 1 Only
Track 2 Only	Track 1&2 only
Track 3 Only	Track 1&3 Only
Track 2&3 Only	Track 1&2&3

Track Compare Match

*Compare Off

Compare On

Pre Track 123 STX Character

Pre Track 123 STX Character = ?

Between 2 Data Characater= ?

Track Order

*1-2-3

1-3-2

2-1-3

2-3-1

3-2-1

3-1-2
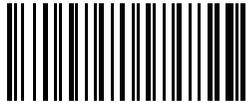
Post Track 1/2/3 Data ID "?"

* Not Transmitted

Transmitted

Pre % ; + Transmission

* On

Off

Remark: The default setting for track 1 is " % ", for track 2 is " ; ", for track 3 is " + ".

7.4 Input Device - Light Pen

Light pen Function	
*Off	On

Pen Scan Speed	
* Default = 4	Custom= ? (0-15)

Remark: Refer to Appendix A for custom setting.

7.5 Input Device - 24 KeyPad

24 - KeyPad	
* Disable	Enable

7.6 USB Connection (Optional)

Scan the following command codes to complete USB setting:

SET

START

USB Setting

END
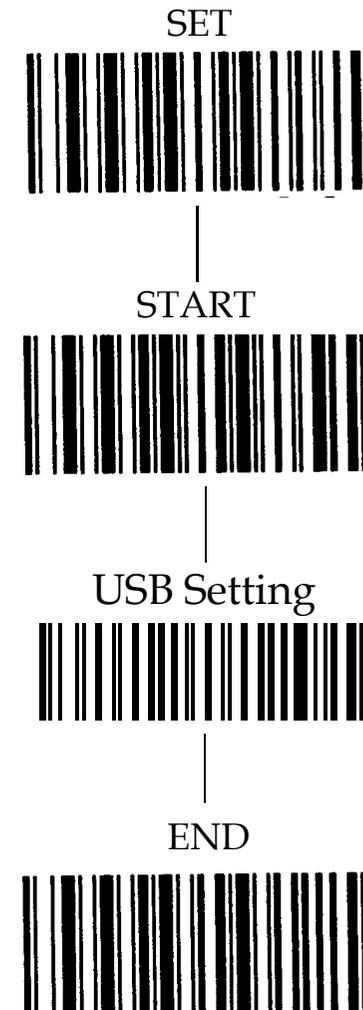
APPENDIX A. FULL ASCII TABLE & DECIMAL TABLE

The following table contains both full ASCII and decimal codes. The decimal codes are parenthesized right next to each ASCII code. This will make the configuration very easy to fit user's application since some configurations can be done by just scanning one code only. The decoding software of the scanner can discirminate your setting(s) automatically no matter it's for a text or a digit.

NUL (0)

SOH (1)

STX (2)

ETX (3)

EOT (4)

ENQ (5)

ACK (6)

BEL (7)

BS (8)

HT (9)

Scan the desired label(s), then scan EXIT to finish your selection.

EXIT

LF (10)

VT (11)

FF (12)

CR (13)

SO (14)

SI (15)

DLE (16)

DCI (17)

DC2 (18)

DC3 (19)

Scan the desired label(s), then scan EXIT to finish your selection.

EXIT

29

FS (20)
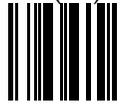
NAK (21)

SUB (22)
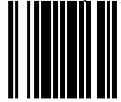
ETB (23)

CAN (24)

EM (25)

SYN (26)
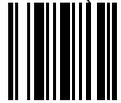
ESC (27)

DC4 (28)
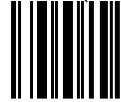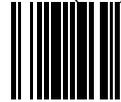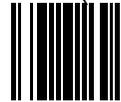
GS (29)
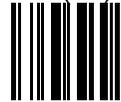
Scan the desired label(s), then scan EXIT to finish your selection

EXIT

RS (30)

US (31)

SP (32)

! (33)

" (34)

(35)

$ (36)

% (37)

& (38)

' (39)

Scan the desired label(s), then scan EXIT to finish your selection.

EXIT

((40)

) (41)

* (42)

+ (43)
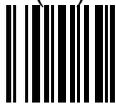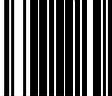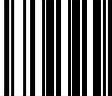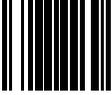
, (44)

- (45)

. (46)

/ (47)

0 (48)

1 (49)

Scan the desired label (s) , then scan EXIT to finish your selection.

EXIT

2 (50)

3 (51)

4 (52)

5 (53)

6 (54)

7 (55)

8 (56)

9 (57)

: (58)

; (59)

Scan the desired label(s), then scan EXIT to finish your selection.

EXIT

< (60)

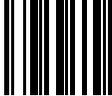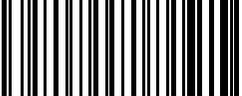= (61)

> (62)

? (63)

@ (64)

A (65)

B (66)

C (67)

D (68)

E (69)

Scan the desired label(s), then scan EXIT to finish your selection.

EXIT

F (70)

G (71)

H (72)

I (73)

J (74)

K (75)

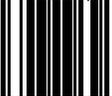L (76)

M (77)

N (78)

O (79)

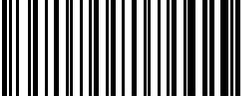Scan the desired label(s), then scan EXIT to finish your selection.

EXIT

P (80)

Q (81)

R (82)

S (83)

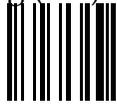T (84)

U (85)

V (86)

W (87)

X (88)

Y (89)

Scan the desired label(s),then scan EXIT to finish your selection.

EXIT

Z (90)

[(91)

\ (92)

] (93)

^ (94)

- (95)

` (96)

a (97)

b (98)

c (99)

Scan the desired label(s), then scan EXIT to finish your selection.

EXIT

d (100)

e (101)

f (102)

g (103)

h (104)

i (105)

j (106)

k (107)

l (108)

m (109)

Scan the desired label(s), then scan EXIT to finish your selection. **EXIT**

n (110)

o (111)

p (112)

q (113)

r (112)

s (115)

t (116)

u (117)

v (118)

w (119)

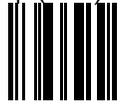Scan the desired label(s), then scan EXIT to finish your selection. **EXIT**
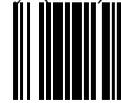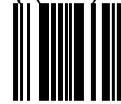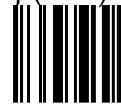
x (120)

y (121)
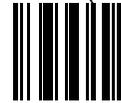
z (122)

{ (123)

| (124)

} (125)

~ (126)

DEL (127)

Scan the desired label(s),then scan EXIT to finish your selection.

EXIT