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:
1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., Scan RESET to start again.

RESET

GROUP-22

SYMBOLOGIES: CODABAR

ENABLE

DISABLE

DISABLE CDV

CDV & SEND CD

CODABAR

CDV & NOT SEND CD

MIN LENGTH (6)

MAX LENGTH (48)

ST/SP: abcd/abcd

ST/SP: ABCD/ABCD

ST/SP: ABCD/TN*E

ST/SP:abc/tn*e

START / STOP

SEND START /STOP

Not Sent START / STOP

Example of ST (Start) / SP (Stop)

123456	Not Transmit ST/SP
A123456B	ST/SP: ABCD/ABCD
a123456b	ST/SP: abcd/abcd
A123456N	ST/SP: ABCD/TN*E
a123456n	ST/SP: 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 2,7,13of the datastring for use in library systems

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:
1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., Scan RESET to start again.

RESET

GROUP-23

SYMBOLOGIES: ABC-CODABAR, CX- CODABAR

ON

OFF

SET INSERT DATA*

ABC- CODABAR

INSERT DATA -ON

INSERT DATA- OFF

* *The data can any alphanumerics of FULL ASCII Table (GROUP 34-42)(page 52-60)*

REMARK:
ABC-CODABAR (American Blood Commission.).The ABC Code is an acronym for American Blood Commission. This bar code is a variant of the CODABAR Code developed for he 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 any alphanumerics of FULL ASCII Table (GROUP 34-42)(page 52-60)*

REMARK:
The CX-Code consists of two bar Codes which are decoded in one read cycle, the code is concatenated when the stop character of the first bar code is a C, and the start character of the second bar code is a B. The B and C characters are not transmitted.

GROUP-24

SYMBOLOGIES : CODABAR COUPLING, ADJACENT REQUIRED.

ON

OFF

SET INSERT DATA*

CODABAR COUPLING

INSERT DATA -ON

INSERT DATA- OFF

ABC-Codabarand 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 each bar code will be sent.

**The data can any alphanumerics of FULL ASCII Table (GROUP 34-42)(page 52-60)*

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.

ON

OFF

NOTES:

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 same time, the scanner will read only Codabar-Coupling, that is, ABC-Codabar, CX-Codabar wil be considered coupling formats.

SETTING PROCEDURE - SET INSERT DATA

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

RESET

NOTES:

1. The scanner will beep three times as reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., scan RESET to start again.

GROUP- 25

SYMBOLOGIES: STANDARD & FULL ASCII CODE 39,CODE 32

STANDARD CODE 39 & FULL ASCII 39

. G008$

ENABLE

. G009$

DISABLE

. G001$

FULL ASCII CODE 39 ENABLE

. G002$

FULL ASCII CODE 39 DISABLE

. G014$

START / STOP - SEND

. G003$

DISABLE CDV

. G004$

CDV & SEND CD

. G005$

CDV & NOT SEND CD

. G006$

MIN LENGTH (1)

. G007$

MAX LENGTH (48)

. G015$

START / STOP Not SEND

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

CODE 32

. K010$

ENABLE

. K011$

DISABLE

. K012$

LEADING SEND

. K013$

LEADING NOT SEND

. K014$

TAILING SEND

. K015$

TAILING NOT SEND

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:
1. The scanner will beep three times as a reminder that a setting is not yet complete.
2. If you make a mistake, forget a step, etc., Scan RESET to start again.

RESET

GROUP-26

SYMBOLOGIES: UPC-E SYSTEM NUMBER

UPC E0

E (0) OFF

E (0) ON

UPC E1

E (1) ON

E (1) OFF

NOTE:

Most UPC Bar codes lead with 0 number systems, For these bar codes use UPC E(0) Selection, For the bar codes that lead with the 1 number, use UPC(E1) select

UPC-E EXPAND TO UPC-A

ENABLE

DISABLE

NOTE:

1. If UPC E EXPAND TO UPC A FORMAT set 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 in front of the bar code.

GROUP-27

SYMBOLOGIES FORMATTING: UPC-E

ENABLE

DISABLE

LEAD DIGIT SEND

UPC-E

LEAD DIGIT NO SEND

CHECK DIGIT SEND

CHECK DIGIT NO SEND

+5 ON

+ 5 OFF

+2 ON

+ 2 OFF

ADD ON SUPPLEMENT

ADD A SPACE ON

ADD A SPACE OFF

ADDENDA REQUIRED OFF

ADDENDA REQUIRED ON

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

GROUP-28

SYMBOLOGIES FORMATTING: UPC -A

. 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 E 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

. H059$

ADDENDA REQUIRED OFF

. H060$

ADDENDA REQUIRED ON

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

GROUP-29

SYMBOLOGIES FORMATTING: EAN 8

. H019$

ENABLE

. H020$

DISABLE

. H021$

LEAD DIGIT SEND

EAN-8

. H022$

LEAD DIGIT NO SEND

. H023$

CHECK DIGIT SEND

. H024$

CHECK DIGIT NO SEND

. H029$

+ 5 ON

. H030$

+ 5 OFF

. H031$

+ 2 ON

. H032$

+ 2 OFF

ADD ON SUPPLEMENT

. H043$

ADD A SPACE ON

. H044$

ADD A SPACE OFF

. H061$

ADDENDA REQUIRED OFF

. H062$

ADDENDA REQUIRED ON

NOTE:
If **ADDENDA REQUIRED** is set to ON, The scanner willonly read an **EAN-8** bar code that has an addenda.

GROUP-30

SYMBOLOGIES FORMATTING: EAN13 ,ISBN,ISSN,ISMN

ENABLE

DISABLE

LEAD DIGIT SEND

EAN-13

LEAD DIGIT NO SEND

CHECK DIGIT SEND

CHECK DIGIT NO SEND

+ 5 ON

+ 5 OFF

+ 2 ON

+ 2 OFF

ADD ON SUPPLEMENT

ADD A SPACE ON

ADD A SPACE OFF

ADDENDA REQUIRED OFF

ADDENDA REQUIRED ON

ISBN OFF

ISBN

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 ISBN or ISBN will be considered as an extension of EAN-13, If ISSN or ISBN need to be read , EAN13 must be enabled. If ISSN and ISBN need to be read with addenda, EAN13 must be enabled with ADDENDA REQUIRED set to ON.

ISSN OFF

ISSN

ISSN ON

NOTE :

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

ISMN OFF

ISMN

ISMN ON

GROUP-31

SYMBOLOGIES: EAN/UCC-128, CODE 128

. M001$

ENABLE

. M002$

DISABLE

. M003$

CODE ID ENABLE

. M004$

CODE ID DISABLE

EAN/ UCC- 128

. M005$

FUNC 1CHEAR SEND

. M006$

FUNC 1 CHEAR NOT SEND

. M007$

DEFINE EAN 128

NOTES :DEFINE EAN 128

The first FNC1 character is translated to]c1, and the second FNC1 character is translated to an ASCII <GS> character (scan from Group 43-45). (page61-63)

String format :

]C1	DATA CHARACTERS	<GS>	DATA CHARACTERS

Setting Procedure:

1:Scan DEFINE EAN128.
2: Scan ASCII Code (page60)
3: Scan DEFINE EAN128.

CODE 128

. J010$

ENABLE

. J011$

DISABLE

. J012$

MIN LENGTH (5)

. J013$

MAX LENGTH (48)

GROUP-32

RSS, LIMITED, EXPANDED

RSS

. N032$

RSS-14 ENABLE

. N033$

RSS-14 DISABLE

. N034$

RSS-14 CHECK DIGIT SEND

. N035$

RSS-14 CHECK DIGIT NOT SEND

. N036$

RSS-14 PREFIX SEND

. N037$

RSS-14 PREFIX NOT SEND

. N038$

RSS-14 STACKED ENABLE

. N039$

RSS-14 STACKED DISABLE

. P024$

RSS-14 SET ID

LIMITED

. N010$

RSS-LIMITED ENABLE

. N011$

RSS-LIMITED DISABLE

. N012$

RSS-LIMITED CHECK DIGIT SEND

. N013$

RSS-LIMITED CHECK DIGIT NOT SEND

. N024$

RSS-LIMITED PREFIX SEND

. N025$

RSS-LIMITED PREFIX NOT SEND

. P019$

RSS-LIMITED SET ID

EXPANDED

. N026$

RSS-EXPANDED ENABLE

. N027$

RSS-EXPANDED DISABLE

. N028$

RSS-EXPANDED STACKED ENABLE

. N029$

RSS-EXPANDED STACKED DISABLE

. N030$

RSS-EXPANDED MIN LENGTH

. N031$

RSS-EXPANDED MAX LENGTH

. P020$

RSS-EXPANDED SET ID

BULE TOOTH MODEL

Connecting Multiple Handheld Barcode to a BT Bluetooth Adapter

The Quick Guide describes the steps to connect Hand-held Barcode scanner to Bluetooth adapter. Other Bluetooth adapters may have similar installation steps. Please read the user manual before you setup Hand-held barcode scanner and Bluetooth adapter.

Package Contents

- CCD Barcode scanner with Bluetooth
- AC adapter
- Bluetooth adapter(Dongle) (optional)
- Program CD and quick guide manual
- USB cable(optional)

Setup the Bluetooth Adapter

Please follow the steps shown below to install the Bluetooth adapter in your computer:

1. Plug the USB Bluetooth adapter to USB port. Windows Found New Hardware Wizard “BT EDR Dongle” will guide you through the Bluetooth Adapter installation.

2. If the New Hardware Wizard can not auto-detect the driver, you can also take the following options to install:
   a. You need to go to “Start” and click on “Windows Update” to acquire the most recent updates. You should be able to complete the installation afterwards.
   b. Use the installation CD from the package to install the software. Installation program will guide you through the software installation.
3. Once the installation is complete there will be an Icon in the System Tray. The System Tray is located near the Windows System Time.

BULE TOOTH MODEL

Setting up Barcode Scanner with Bluetooth Adapter (Dongle)

1. "Right Click" on the Bluetooth icon in the System Tray. Then select option "Add new Bluetooth hardware."
2. Go to next page and find the "Disconnect BT" label on the bottom of the page.
3. While the Bluetooth setup wizard is searching for Bluetooth devices, **click on the trigger of the scanner to activate the connection. Scan the "Disconnect BT" barcode to complete the search.**
4. Select "Device Name" from device selection menu.

5. Follow the Bluetooth setup wizard until you have the option to register pin code or skip. You can skip the PIN code setup for now and register it later.

PIN code registration/matching:

6. Select PIN code registration
7. Enter your PIN code manually then click on PIN code matching.
8. Scan the PIN code you entered manually referring to the "Bluetooth setting" next page. Finally, scan the "CR" barcode at the bottom which represents as "Enter."
9. Follow the setup wizard until you click on "Finish."

CAUTION

1. The desktop PC or Notebook should remain active at all time during the scanning process. If desktop PC or Notebook were disconnected from scanner during transmission, the scanning process would be interrupted and the data may be lost. Recommend to turn off any hibernation or standby mode of the PC or Notebook.
2. For Windows Vista version, you need to register/ match the PIN code for barcode scanner to function properly.

GROUP-33

BULE TOOTH MODEL

BlueTooth setting (pin code and disconnection)

0

1

2

3

4

5

6

7

8

9

$TX

Enter

POWER MANAGEMENT MODE

. B017$

1 MINUTE

. B018$

3 MINUTES

. B019$

5 MINUTES

. B020$

10 MINUTES

. E031$

DISCONNECT BT

GROUP-34

FULL ASCII TABLE (CODE 39)

NUL

SOH

STX

ETX

EOT

ENQ

ACK

BEL

BS

HT

LF

VT

FF

CR

SO

SI

GROUP-35

FULL ASCII TABLE (CODE 39)

DLE

DC2

DC4

SYN

CAN

SUB

FS

RS

DC1

DC3

NAK

ETB

EM

ESC

GS

GROUP-36

FULL ASCII TABLE (CODE 39)

GROUP-37

FULL ASCII TABLE (CODE 39)

/ H
(

/ G
'

/ I
)

/ J
*

/ L
,

.
.

+
+

-
–

/
/

A
A

B
B

C
C

D
D

E
E

F
F

GROUP-38

FULL ASCII TABLE (CODE 39)

G

H

I

J

K

M

L

O

N

Q

P

S

R

U

T

GROUP-39

FULL ASCII TABLE (CODE 39)

GROUP-40

FULL ASCII TABLE (CODE 39)

e

g

i

k

m

o

q

s

f

h

j

l

n

p

r

GROUP-41

FULL ASCII TABLE (CODE 39)

+T

t

+U

u

+V

v

+W

w

+X

x

+Y

y

+Z

z

%Q

|

%R

}

%P

{

%T

DEL

%S

~

%V/ F

ENTER

GROUP-42

FULL ASCII NUMERIC TABLE (CODE 39)

GROUP-43

FUNCTION CODE TABLE (CODE 39)

F1

F2

F3

F4

F5

F6

F7

F8

F9

F10

F11

F12

Home

End

GROUP-44

FUNCTION CODE TABLE (CODE 39)

Cursor Right

Cursor Left

Cursor Up

Cursor Down

Page Up

Page Down

Tab

Back Tab

Esc

Enter

BS

Ins

Del

GROUP-45

FUNCTION CODE TABLE (CODE 39)

$T%L

Alt（Left） make*1

$T%M

Alt（Left）break

$T%N

Shift（Left） make *2

$T%O

Shift（Left） break

$T%W

Ctrl（Left） makek *3

$T+A

Ctrl（Left） braek

$T+D

Enter（Numeric Key）

For UK Keyboard Special Character

$T+B

¬

$T+C

£

Note:

*1. “Alt(left)Make” is programmed, please scan “Alt(left)Break” to resume barcode setting.
*2. “Shift(left)Make” is programmed, please scan “Shift(left)Break” to resume barcode setting.
*3. ”Ctrl(left)Make” is programmed, please scan “Ctrl(left)Break” to resume barcode setting.

GROUP- 46

TROUBLE SHOOTING

The Ezscan is simple to install and use. Most operational problems can be attributed to:

INCORRECT INTERFACE CONNECTION
INCORRECT CONFIGURATION SETUP
POOR BAR CODE QUALITY

GENERAL PROCEDURES

1. First, make sure the scanner is firmly connected to the host computer, when attached correctly, the scanner will emit one long beep. When the trigger is pressed, LED will flash.

2. Once the power is on, try scanning some sample bar codes from this user's guide. The scanner should beep and the LED should flash to indicate a good read in the default configuration . If reading the bar code does not result in a good read, there may have been a problem with the scanning technique or the interface configuration setting. Reset the scanner to default.

3. If the scanner indicates a good read,but no output of data to the monitor, please check the cabling connect

KEYBOARD INTERFACES PROBLEMS.

In general, the Keyboard Wedge interface is trouble free, but there still are some things to check in the event of a problem.

Do you have the correct cable?
Most computers use an XT/AT-compatible keyboard. Be sure you have the proper cable for your computer.

Does the keyboard work?
Since the keyed-in data from keyboard must pass through the decoder, the cabling connections are correct if the keyboard is functioning.

Can your computer accept the data fast enough?
Your computer's BIOS has a feature related to keyboard typing speed. Try to set the Intercharacter Delay feature to stimulate the keystroke entry speed.

Does keyboard port supply enough power ?
Most notebook computers do not supply enough power to the scanner. The symptom of insufficient power is a lower "good read" rate (since there is not enough power to properly support the scanning operation).

GROUP-47
TROUBLE SHOOTING

RS232 INTERFACE PROBLEMS

Once you read bar code, there is no output on the monitor: the symptoms may be caused by:

1. If the handshaking Have you set the protocol of RS232 like Baud rate, data bits, parity and handshaking etc. of a scanner to match to the PC terminal setting? Solution: reset the above mentioned RS232 protocol of scanner to match to PC protocol.
2. Pls check if the cable pinout assignment of bar code match to the pinout assignment of PC terminal?

No power supply to scanner;

1. Do you connect the right power adaptor to the scanner?
2. Does scanner connect the cable with right pinout which match to PC-terminal?

INTERFACE PROBLEMS

Are you using the Wand Emulation mode with Code 39 output? If so, is your decoder set to accept Code 39 data?
Check the scanner's configuration setting to make sure it can accept the bar code symbology you are trying to read.

Although the cable seems to connect properly, does the scanner not send data to the host computer?
There are no industrial standards for scanner interface cables, so even if they look alike and have similar connector, they might not be alike. For example, cables for Keyboard Wedge and Wand Emulation are similar, but they are not interchangeable due to different pin assignments. Be sure the cable you are using attaches correctly to the matching connector.

CONFIGURATION SETUP

Are you setup for the right Interface?
Are you set up for the right interface? Did you select the Keyboard Wedge cable but set the scanner for RS-232 or Wand Emulation? Or did you change the Keyboard cable to RS-232 but forget to set the scanner interface to RS-232 as well? Set the scanner to its default settings, then selectthe correct interface based upon the cable and input you are using.

Sympton ----The LED lighting is stuck, and no function at all, even triggered the scanner.

Solution ---- Set the Scanner to Default condition, and choose the right interfaces

Is the proper symbology enabled?
Each bar code symbology can be individually enabled or disabled.It is suggested that you enable only those that you will be scanning,thereby eliminating the possibility of mis reads from the scanningof other symbologies.

Does the selected the bar code symbology configuration match the bar code(s) being read?
Scanned data from each bar code symbology can be restrictedto eliminate the scanning of unused symbologies. The restrictionsare individually set for eachsymbology.

POOR BAR CODE QUALITY

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

TOLERANCE OF BAR CODE

A bar code may have a tolerance. Normally, the tolerances are caused by bar code font software or a printer. Software with a proven reputation should be chosen to generate bar codes. If the printed bar codes are distorted, the scanner might not recognize them.

It is very difficult to get a good read from a poor quality bar code unless it is scanned many times. As the quality of the symbology drops, the chances for undetected error increase. A bar code Check Digit Verification (CDV) should be used to check the quality of the suspect bar codes.

LABELS (PAPER & COLOR & PRINTER)

The light source of a bar code scanner is generally red, so there are some restrictions for the printing of labels. Care should be taken whenchoosing materials, especially color inks and papers. Sometimes the combination of the label color and the color of the ink can , in effect, blind the scanner. Media with a shiny surface will also cause reading difficulties for scanners.

Moreover, poor printing quality can also result in reading difficulties for the scanner. Bad printing may be caused by the type of printer used; dot matrix and inkjet printers will not produce high quality bar codes. Also check to make sure the ink, ribbon, or toner in good supply.

APPENDIX 1

DEFAULT TABLE 1

CROUP		PARAMETER	DEFAULT
1		Computer Type	PC-AT
		Interfaces	*
2		Reading Mode	Trigger
3		Beep Tone Mode 2.1k	1.Beep Medium
		Beep Tone Mode 2.7k	1.Beep Medium
		Capital lock Mode	3.Caplock Off
4		Preamble & Postamble	Off
5		Accuracy Adjustment	2
6~9		Enable & Disable Code ID	Off
10		Interblock Delay	Oms
		Inter-character Delay	140us
11		Keyboard Layout	English(USA)
		Terminator	CR, CR+LF
12		Baud Rate	9600
		Data Bits & Parity	8 Bit None
13		Stop Bits	1 stop bit
		Handshaking	None
		ACK/NAK	Off
		Flow Control TimeOut	1 Sec
14		Level dutation of Mini Width	200us
		Polarity Of Idle Condition	High
		Output of Wand Emulation	Bar High/Space Low
		Wave Form	Full ASCII 39
15~16		Enable and Disable Symbologies	
		Code 32	Disable
		China Postal Code	Enable
		UK Plessy Code	Disable
		Industrial 2 of 5	Disable
		Matrix 2 of 5	Disable
		Interleaved 2 of 5	Enable
		Code 128	Enable
		Cadabar	Enable
		Telepen	Disable
		UPC-A	Enable
		UPC-E	Enable
		EAN-8	Enable
		EAN-13	Enable
		MSI	Disable
		Code 39	Enable
		Code 11	Enable
		Code 93	Disable
		EAN-128	Enable
		IATA	Disable
17		China Post Code	
	1	Enable/Disable	Enable
		Check Digits	Disable CDV
		Min Length	11 digits
		Max Length	48 digits
	2	Code 32	
		Enable/Disable	Disable
		Leading send/not send	send
18		MSI	
	1	Enable/Disable	Disable
		Check Digits	CDV & send CD
		Check Digits Mode	Single MOD 10

* The interface setting of scanner does not have certain default value, the default of interface of scanner will be set according to customer order.

APPENDIX 1

DEFAULT TABLE 2

CROUP		PARAMETER	DEFAULT
18	2	**UK Plesssy**	
		Enable/Disable	Disable
		Check Digits	CDV & not send CD
19	1	**IATA**	
		Enable/ Disable	Disable
		Check Digits	Disable CDV
		Min Length	6 digits
		Max Length	48 digits
	2	**Code 93**	
		Enable/Disable	Disable
		Min Length	6 digits
		Max Length	48 digits
	3	**Telepen**	
		Enable/Disable	Disable
		Telepen ASC**II** /Number	Number
20	1	**Interlenved 2 of 5**	
		Enable/Disable	Enable
		Check Digits	Disable CDV
		First/ last digit suppressed	No suppressed
		Min Length	6 digits
		Max Length	48 digits
	2	**Code II**	
		Enable/Disable	Disable
		Check Digits	Disable CDV
		Min Length	6 digits
		Max Length	48 digits
21	1	**Industrial 2 of 5**	
		Enable/Disable	Disable
		Check Digits	Disable CDV
		Min Length	6 digits
		Max Length	48 digits
	2	**Matrix 2 of 5**	
		Enable/Disable	Disable
		Check Digits	Disable CDV
		Min Length	6 digits
		Max Length	48 digits
22	1	**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
		Start(ST)/Stop(SP)send	Send
		CLSI Format	ON
23	1	**ABC-Codabar**	
		ON/OFF	Off
		Insert Data	Off
	2	**CX-Codabar**	
		Insert Data	Off
		ON/OFF	Off
24		**Codabar-Coupling**	
		ON/OFF	Off
		Insert Data	Off
		Adjacent Required	Off
25		**Code 39**	
		Full ASCII 39 Enable/Disable	Enable
		Check Digits	Disable CDV
		Start/Stop	Not Send
		Min Length	1 digits
		Max Length	48 digits

APPENDIX 1

DEFAULT TABLE 3

CROUP		PARAMETER	DEFAULT
26		**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
27		**UPC-A&E, EANS Expand, UPCE systems number**	
		UPC E(0) On/Off	On
		UPC E(1) On/Off	Off
		UPC-E expand to UPGA	Disable
		UPC-A expand to EAN13	Disable
28		**UPC-A**	
		Enable/Disable	Enable
		Check Digits	Send
		Lead Digits	Send
		Add a space	Off
		Addenda required	Off
		+5 On/Off	Off
		+2 On/Off	Off
29		**EAN-8**	
		Enable/Disable	Enable
		Check Digits	Send
		Lead Digits	Send
		Add a space	Off
		Addenda required	Off
		+5 On/Off	Off
		+2 On/Off	Off
30		**EAN-13**	
		Enable/Disable	Enable
		Check Digits	Send
		Lead Digits	Send
		Add a space	Off
		Addenda required	Off
		+5 On/Off	Off
		+2 On/Off	Off
		ISSN On/Off	Off
		ISBN	Off
31	1	**EAN/UCC128**	
		Enable/Disable	Enable
		Code ID	Disable
		Func I Chear send	Not Send
	2	**Code 128**	
		Enable/Disable	Enable
		Check Digits	Disable CDV
		Min Length	5 digits
		Max Length	48 digits
32		Rss-14	Disable
		Rss-14 Check digit	Not Send
		Rss-14 Prefix	Not Send
		Rss-14 Stacked	Enable
		Rss-Limited	Disable
		Rss-Limited Check Digit	Not Send
		Rss-Limited Prefix	Not Send
		Rss-Expanded	Disable

Appendix 2

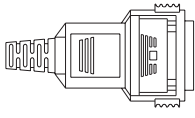
Cable Pin Assignment

INTERFACES:

1. TTL , Wand Emulation

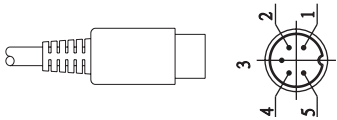
1.1) AMP (D-Sub 9Pin):

Pin	Signal
2	Data
7	GND
9	+5VCC



1.2) Din 5 male (240 degree):

Pin	Signal
1	+ 5Vcc
2	Data
3	GND
4	N/A
5	N/A

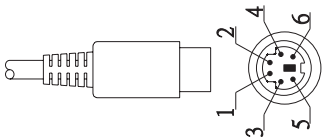


---

2. Keyboard Interface:

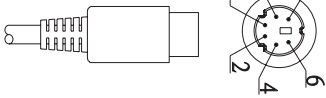
Type of connector:
2.1) PS/2 Mini Din6 Female:

Pin	Signal
1	PC Data
2	NC
3	GND
4	+5Vcc
5	PC-Clk
6	NC



2.2) PS/2 Mini Din6 Male:

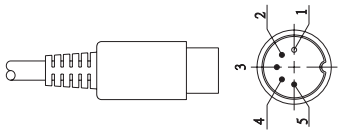
Pin	Signal
1	KB- Data
2	NC
3	GND
4	+5Vcc
5	KB-CLK
6	NC



Type of connector:

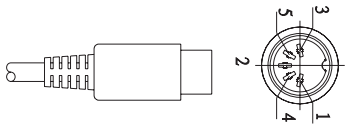
2.3) PC-AT : Din 5 Male :

Pin	Signal
1	KB-Clk
2	KB-Data
3	NC
4	GND
5	+5VCC



2.4) PC-AT : Din 5 Female

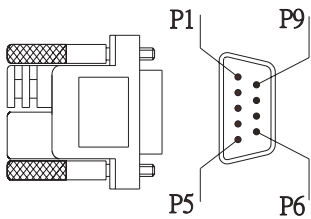
Pin	Signal
1	PC-Clk
2	PC-Data
3	NC
4	GND
5	+5VCC



3.RS232 Interfaces:

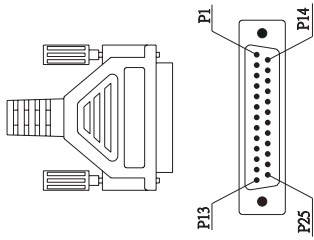
3.1) DB9F

Pin	Signal
2	TXD(Out)
3	RXD(In)
5	GND
7	CTS(In)
8	RTS(Out)
9	+5Vcc



3.2) DB25F

Pin	Signal
2	RXD(In)
3	TXD (out)
4	CTS (In)
5	RTS (Out)
7	GND
16	+5VCC
25	+5VCC



Appendix 3

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)

CODE-39

Interleaved 2of5

UPC

EAN

Appendix 3

BAR CODE TEST CHART

LOW DENSITY

C9876543210D

CODE-39 TEST

0012345690

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:
. Reorient or relocate the receiving antenna.
. Increase the separation between the equipment and receiver.
. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
. Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.