# Programming
## User's Manual

**Ver1.3**

Start Configuration((+SETF)) |||||||||||||||||||||||||

# Chap.1 System Information

|||||||||||||||||||||||
Set All default((+RETF))

|||||||||||||||||||||||
S/W Version((+SFVR))

# Chap.2 System Installation
## 2.1 Interface Selection

|||||||||||||||||||||||
<Keyboard>((+A1A))

|||||||||||||||||||||||
RS-232((+A1B))

|||||||||||||||||||||||
USB_Keyboard((+A1C))

|||||||||||||||||||||||
USB_COM((+A1D))

## 2.2.1 Keyboard Language

|||||||||||||||||||||||
<U.S.A>((+B2A))

|||||||||||||||||||||||
Italian((+B2B))

|||||||||||||||||||||||
Spanish((+B2C))

|||||||||||||||||||||||
French((+B2D))

|||||||||||||||||||||||
Germany((+B2G))

|||||||||||||||||||||||
Japan((+B2F))

|||||||||||||||||||||||
Portugal((+B2G))

End Configuration((+ENDF)) |||||||||||||||||||||||||

Start Configuration((+SETF))

## 2.2.1 Language

Swedish((+B2I))

Hungary((+B2H))

Denmark((+B2K))

Norwegian((+B2J))
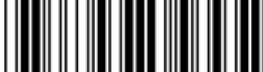
Turkey((+B2M))

Netherland((+B2L))

Belgium((+B2O))

UK((+B2N))

## 2.2.2 Keyboard Wedge function
### Function Key Emulation

<OFF>((+B3A))

ON((+B3B))

### KB Emulation

<OFF>((+B4A))

ON((+B4B))

### ALT Mode

<OFF>((+BCB))

ON((+BCA))

End Configuration((+ENDF))

Start Configuration((+SETF))

**Caps Lock**

<OFF>((+B5A))

ON((+B5B))

**Num Lock**

<OFF>((+B6A))

ON((+B6B))

## 2.2.3 Inter-character Delay (Default:00)

Appendix A (00H − 64H)((+B7A))

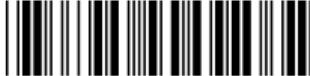## 2.2.4 Message Terminator for keyboard &USB interface

None((+B9A))

<CR>((+B9B))

Tab((+B9C))

ESC((+B9D))

## 2.3.1 RS-232 Parameters
### BAUD Rate

||||||||||||||||||||||
2400((+C8B))

||||||||||||||||||||||
4800((+C8C))

||||||||||||||||||||||
19200((+C8E))

||||||||||||||||||||||
<9600>((+C8D))

||||||||||||||||||||||
38400((+C8F))

### Data bits

||||||||||||||||||||||
7 ((+C7B))

### Stop Bit

||||||||||||||||||||||
<1>((+C6A))

||||||||||||||||||||||
<8>((+C7A))

||||||||||||||||||||||
2((+C6B))

Start Configuration((+SETF)) ||||||||||||||||||||||||

---

**Parity**

|||||||||||||||||||||||| 
**<None>**((+C5A))

|||||||||||||||||||||||| 
Odd((+C5B))

|||||||||||||||||||||||| 
Even((+C5C))

---

**2.3.2Message Terminator for RS232 interface**

|||||||||||||||||||||||| 
None((+C9A))

|||||||||||||||||||||||| 
**<CR+LF>**((+C9B))

|||||||||||||||||||||||| 
CR((+C9C))

|||||||||||||||||||||||| 
LF((+C9D))

|||||||||||||||||||||||| 
TAB((+C9E))

|||||||||||||||||||||||| 
STX/ETX((+C9F))

|||||||||||||||||||||||| 
EOT((+C9G))

---

**RS-232 Function Installation**
**Inter-character Delay (Default:00)**

End Configuration((+ENDF)) ||||||||||||||||||||||||

Start Configuration((+SETF))

```
Appendix A(00H—64H)((+C2A))
```

Delay time=set up data*100(ms)
**Handshaking Protocol Delay(Default:00)**

```
Appendix A(00H—0AH)((+C4A))
```

**Handshaking Protocol**

**<None>**((+C1A))

RTS/CTS((+C1B))

ACK/NAK((+C1C))

Xon/Xoff((+C1D))

---

### 2.4 Scan Mode

Time out set up
1. Scan the barcode of "Continuous/Timeout OFF"
2. Scan 2 digits of the ASCII code of the Appendix A
3. Scan the "End" of the Appendix A
4. Scan the End Configuration to end the procedure
5. The settings unit is a second. Ex:0*39 stands for 1 minute

Start Configuration((+SETF)) |||||||||||||||||||||

Trigger On/Off
((+E1A))

<Trigger On/Good read off>
((+E1B))

Continuous/Trigger Off
((+E1C))

Testing
((+E1D))

Continuous/LED always On
((+E1E))

Continuous/Timeout Off
((+E1F))

Flash On (CCD only)
((+E1G))

Continuous/No Trigger
((+E1H))
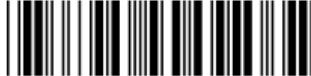
End Configuration((+ENDF)) |||||||||||||||||||||

**Blinking mode(Option)**

<OFF>((+EFA))

5 sec((+EFB))

15 sec((+EFD))

60 sec((+EFG))

10 sec((+EFC))

20 sec((+EFE))

30 sec((+EFF))

Always ON((+EFH))
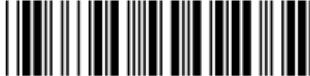
Start Configuration((+SETF)) |||||||||||||||||||||

## 2.5 Buzzer Set-up

You can pitch the buzzer tone and adjust the buzzer time. Besides, you can set the voice of boot and decoding..

**Frequency(Default:09H)**

|||||||||||||||||||||
Appendix A(00-10H)((+E2A))

**Adjust Buzzer Tone(Default:04H)**

|||||||||||||||||||||
Appendix A(00-10H) ((+E3A))

**Power On Tone**

|||||||||||||||||||||
<ON>((+EBA))

|||||||||||||||||||||
OFF((+EBB))

**Good read Beep**

|||||||||||||||||||||
<ON>((+ECA))
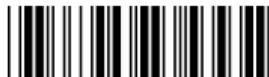
|||||||||||||||||||||
OFF((+ECB))

## 2.6 Character Installation

The preamble and postamble character: You can put 10 AS-CII at most in front of the barcode data. When the installation is "0" that means you don't need to add the first and last character. Please find the format as below:

| Preamble Character | Barcode | Postamble Character |

The process for adding the first and last character to the bar-code:

1.  Scan the barcode of "Start Configuration" and "The Preamble Character Installation".
2.  Check the ASCII table to get the ASCII code of the first and last character.
3.  Scan the barcode of ASCII in the Appendix.
4.  Scan the "End Configuration".

G1/G2 character Insertion: You can put 10 ASCII at most in front of the barcode data. When the installation is "0" that means you don't need to add the first and last character.

1.  Scan the barcode of the "Start Configuration" and "G1 Insert Character".
2.  Check the ASCII table to get the ASCII code of the first and last character.
3.  Scan the barcode of ASCII in the Appendix.
4.  Scan the "End Configuration".

End Configuration((+ENDF)) |||||||||||||||||||||

5. Repeat the same process to the G2 insertion.

6. Scan the "End Configuration".

The position of G1/G2 character insertion: To select a character insert to the barcode. You can't insert any character while the installation is "0"

1. Scan the barcode of the "Start Configuration" and "G1 character insertion position"
2. Check the ASCII table to get the corresponding ASCII code of the insertion position.
3. Scan the "End Configuration".
4. Repeat the same process to the G2 character insertion position.

5. Scan the "End Configuration".

Code Transmission: If your application needs to transmit the code (barcode type ID), you have to set "ON" for this feature and the format is ID + Barcode data.

**The Preamble Installation (Default:00)**

Appendix A((+E4A))

**The Postamble Installation (Default:00)**

Appendix A((+E5A))

**G1 Character Insertion (Default:00)**

Appendix A((+E6A))

**G2 Character Insertion (Default:00)**

Appendix A((+E7A))

**G1 Character Insertion Position(Default:00)**

Appendix A((+E8A))

**G2 Character Insertion Position(Default:00)**

Appendix A((+E9A))

Start Configuration((+SETF))

## Code ID Transmission

ON((+EAA))

<OFF>((+EAB))

### 2.7 Other Installation

Scanning Precision: You can set to scan once or twice and then transfer the bar code data. The twice will reduce the error reading.

Bar Reverse Output Installation: This feature can read the highlight barcode.

**Scanning Verify**

<Single>((+EDA))

Multi-verify(Max:2) ((+EDB))

## Laser Data Speed Up(For Laser)

<ON>((+EFA))

OFF((+EFB))

### Chap.3 BAR-CODE INSTALLATION
### 3.1 UPC-A

**Reading**

OFF((+F1A))

<ON>((+F1B))

**Code ID (Default:F)**

<20H-7EH>((+F2A))

End Configuration((+ENDF))

**UPC-A convert to EAN-13**

<OFF>((+F3A))

ON((+F3B))

**Transmit Check Character**

OFF((+F4A))

<ON>((+F4B))

**Truncate Leading Zero**

<OFF>((+F5A))

ON((+F5B))

**Truncate Leading Digit(Default:00)**

<00H-0DH>((+F6A))

**Truncate Last Digit(Default:00)**

<00H-0DH>((+F7A))

**Select Insertion(Default:00)**

<00H-02H>((+F9A))

## 3.1 UPC-A
### Add-On 2/5

<None>((+F8A))

2 digit((+F8B))

5 digit((+F8C))

2 or 5 digit((+F8D))

AUTO_Enable
((+F8E))

## 3.2 UPC-E
### Reading

OFF((+G1A))

<ON>((+G1B))

### Code ID (Default：G)

<20H-7EH>((+G2A))

### UPC-E Convert to UPC-A

<OFF>((+G3A))

ON((+G3B))

### Transmit Check Character

OFF((+G4A))

<ON>((+G4B))

### Truncate Leading Zero

<OFF>((+G7A))

ON((+G7B))

### Truncate Leading Digit(Default:00)

<00H-08H>((+G5A))

### Truncate Last Digit(Default:00)

<00H-08H>((+G6A))

### Select Insertion(Default:00)

<00H-02H>((+G9A))

## 3.2 UPC-E
### Add-On 2/5

<None>((+G8A))

2digit((+G8B))

5digit((+G8C))

2 or 5 digit((+G8D))

AUTO_Enable
((+G8E))

## 3.3 EAN-13

**Reading**

OFF((+H1A))

<ON>((+H1B))

**Code ID (Default: H)**

<20H-7EH>((+H2A))

**Transmit Check Character**

OFF((+H3A))

<ON>((+H3B))

**Truncate Leading Digit (Default:00)**

<00H-0DH>((+H4A))

**Truncate Last Digit (Default:00)**

<00H-0DH>((+H5A))

**Select Insertion (Default:00)**

<00H-02H>((+H8A))

### 3.3 EAN-13
### Add-On 2/5

|||||||||||||||||||
<None>((+H6A))

|||||||||||||||||||
2 Digit((+H6B))

|||||||||||||||||||
5 Digit((+H6C))

|||||||||||||||||||
2or 5 Digit((+H6D))

|||||||||||||||||||
AUTO_Enable
((+H6E))

Start Configuration((+SETF))

---

**ISBN/ISSN Convert**

<OFF>((+H7A))

ON((+H7B))

---

**3.4 EAN-8**
**Reading**

OFF((+I1A))

<ON>((+I1B))

**Code ID (Default: I)**

<20H-7EH>((+I2A))

**Transmit Check Character**

OFF((+I3A))

<ON>((+I3B))

**Truncate Leading Digit (Default:00)**

<00H-08H>((+I4A))

---

End Configuration((+ENDF))

**Truncate Last Digit (Default:00)**

<00H-08H>((+I5A))

**Select Insertion (Default:00)**

<00H-02H>((+I7A))

**Add-On 2/5**

|||||||||||||||||||||||
\<None\>((+I6A))

|||||||||||||||||||||||
2 digit((+I6B))

|||||||||||||||||||||||
5 digit((+I6C))

|||||||||||||||||||||||
2 or 5 digit((+I6D))

|||||||||||||||||||||||
AUTO_Enable
((+I6E))

## 3.5 Code 39
**Reading**

OFF((+J1A))

<ON>((+J1B))

**Code ID (Default: J)**

(20H-7EH)((+J2A))

**Verification**

<OFF>((+J3A))

ON((+J3B))

**Transmit Check Character**

OFF((+J4A))

<ON>((+J4B))

**Min. Length (Default:01)**

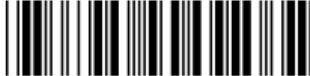<01H-50H>((+J6A))

**Max. Length (Default:50H)**

<01H-50H>((+J7A))

## 3.5 Code 39
### Format

**<Standard Code39>** ((+J9A))

Full ASCII Code39
((+J9B))

Trioptic CODE39
((+J9C))

### Transfer Start / End Character

**<OFF>** ((+JDA))

ON((+JDB))

### Code 39 Concatenation

**<OFF>** ((+JFA))

ON((+JFB))

### Truncate Leading Digit(Default:00)

<00H-32H> ((+JAA))

### Truncate Last Digit(Default:00)

<00H-32H> ((+JBA))

### Select Insertion(Default:00)

<00H-02H> ((+JCA))

## 3.6 Codabar
### Reading

OFF((+K2A))

Start Configuration((+SETF)) ||||||||||||||||

**Code ID (Default: K)**
||||||||||||||||
<20H-7EH>((+K2A))

<ON>((+K1B)) ||||||||||||||||

**Verification**
||||||||||||||||
<OFF>((+K3A))

ON((+K3B)) ||||||||||||||||

**Transmit Check Character**
||||||||||||||||
<OFF>((+K4A))

ON((+K4B)) ||||||||||||||||

**Truncate Leading Digit(Default:00)**
||||||||||||||||
<00H-7EH>((+K6A))

**Truncate Last Digit(Default:00)**
||||||||||||||||
<00H-7EH>((+K7A))

**Select Insertion (Default:00)**
||||||||||||||||
<00H-02H>((+KCA))

End Configuration((+ENDF)) ||||||||||||||||

## 3.6 Codabar
### Start / End Character Type

‹ABCD/ABCD›((+K8A))

abcd/abcd((+K8B))

abcd/tn*e((+K8C))

### Transmit Start / End Character

OFF((+K9A))

‹ON›((+K9B))

### Min. Length (Default:06)

‹01H-50H›((+KAA))

### Max. Length (Default:50H)

‹01H-50H›((+KBA))

## 3.7 Code93

Start Configuration((+SETF))

**Reading**

OFF((+L1A))

<ON>((+L1B))

**Code ID (Default: L)**

<20H-7EH>((+L2A))

**Verification**

OFF((+L3A))

<ON>((+L3B))

**Transmit Check Character**

<OFF>((+L4A))

ON((+L4B))

**Select Insertion (Default:00)**

<00H-02H>((+L9A))

**Truncate Leading Digit (Default:00)**

<00H-7EH>((+L7A))

**Truncate Last Digit (Default:00)**

<00H-7EH>((+L8A))

**Min. Length(Default:03)**

<01H-50H>((+L5A))

**Max. Length(Default:50H)**

<01H-50H>((+L6A))

**3.8 Code 128**
**Reading**

OFF((+M1A))

End Configuration((+ENDF))

Start Configuration((+SETF))

**Code ID (Default: M)**

<ON>((+M1B))

<20H-7EH>((+M2A))

**Verification**

OFF((+M3A))

**Transmit Check Character**

<ON>((+M3B))

<OFF>((+M4A))

ON((+M4B))

**Truncate Leading Digit(Default:00)**

<00H-7FH>((+M8A))

**Truncate Last Digit(Default:00)**

<00H-7FH>((+M9A))

**Select Insertion(Default:00)**

<00H-02H>((+MCA))

**Min. Length(Default:03)**

<01H-50H>((+MAA))

**Max. Length(Default:50H)**

<01H-50H>((+MBA))

End Configuration((+ENDF))

**UCC/EAN128**

<OFF>((+M6A))

ON((+M6B))

**FNC1 Transmit**

<OFF>((+M7A))

ON((+M7B))

**FNC2 Concatenation**

<OFF>((+M5A))

ON((+M5B))

Start Configuration((+SETF))

---

**IATA Code**

<OFF>((+V1A))

ON((+V1B))

---

**3.9 Interleaved 2 of 5**
**Reading**

OFF((+N1A))

<ON>((+N1B))

**Code ID (Default: N)**

<20H-7EH>((+N2A))

**Verification**

<OFF>((+N3A))

ON((+N3B))

**Transmit Check Character**

---

End Configuration((+ENDF))

Start Configuration((+SETF))

OFF((+N4A))

<ON>((+N4B))

**Truncate Leading Digit(Default:00)**

<00H-7EH>((+N5A))

**Truncate Last Digit(Default:00)**

<00H-7EH>((+N6A))

**Select Insertion(Default:00)**

<00H-02H>((+N9A))

**Min. Length(Default:06)**

<01H-50H>((+N7A))

**Max. Length(Default:50H)**

<01H-50H>((+N8A))

**3.10 Industrial 2 of 5**
**Reading**

<OFF>((+O1A))

ON((+O1B))

**Code ID (Default: O)**

<00H-7EH>((+O2A))

**Verification**

<OFF>((+O7A))

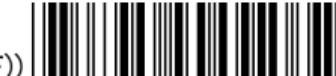ON((+O7B))

**Transmit Check Character**

<OFF>((+O8A))

ON((+O8B))

**Truncate Leading Digit(Default:00)**

End Configuration((+ENDF))

Start Configuration((+SETF))

‖‖‖‖‖‖‖‖‖

<00H-32H>((+O5A))
**Truncate Last Digit(Default:00)**

<00H-32H>((+O6A))
**Select Insertion (Default:00)**

<00H-02H>((+O9A))
**Min. Length (Default:06)**

<01H-50H>((+O3A))

**Max. Length(Default:50H)**

<01H-50H>((+O4A))

**3.11 Matrix 2 of 5**
**Reading**

<OFF>((+P1A))

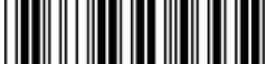ON((+P1B))

**Code ID (Default: P)**

<20H-7EH>((+P2A))

**Verification**

<OFF>((+P3A))

ON((+P3B))

**Transmit Check Character**

<OFF>((+P4A))

ON ((+P4B))

**Truncate Leading Digit(Default:00)**

<00H-50H>((+P5A))
**Truncate Last Digit(Default:00)**

End Configuration((+ENDF))

Start Configuration((+SETF))

‖‖‖‖‖

<00H-50H>((+P6A))
**Select Insertion(Default:00)**

<00H-02H>((+P9A))
**Min. Length(Default:06)**

<01H-50H>((+P7A))

**Max. Length(Default:50H)**

<01H-50H>((+P8A))

**3.12 China Post Code**
**Reading**

<OFF>((+Q1A))

ON((+Q1B))

**Code ID (Default: Q)**

<20H-7EH>((+Q2A))

**Verification**

<OFF>((+Q3A))

ON((+Q3B))

**Transmit Check Character**

<OFF>((+Q4A))

ON((+Q4B))

**Truncate Leading Digit(Default:00)**

<00H-50H>((+Q5A))

**Truncate Last Digit(Default:00)**

<00H-50H>((+Q6A))

**Select Insertion(Default:00)**

End Configuration((+ENDF))

Start Configuration((+SETF))

||||||||||||||||
<(00H-02H>((+Q9A))

**Min. Length(Default:06)**

||||||||||||||||
<01H-50H>((+Q7A))

**Max. Length(Default:50H)**

||||||||||||||||
<01H-50H>((+Q8A))

**3.13 MSI / Plessey**
**Reading**

||||||||||||||||
**<OFF>**((+R1A))

||||||||||||||||
ON((+R1B))

**Code ID (Default: R)**

||||||||||||||||
<20H-7EH>((+R2A))

**Verification**

||||||||||||||||
**<OFF>**((+R3A))

||||||||||||||||
MOD 11/10((+R3D))

||||||||||||||||
MOD 10((+R3B))

||||||||||||||||
MOD 10/10((+R3C))

**Transmit Check Character**

||||||||||||||||
OFF((+R4A))

||||||||||||||||
**<ON>**((+R4B))

**Truncate Leading Digit (Default:00)**

||||||||||||||||
<00H-3CH>((+R5A))

End Configuration((+ENDF))

**Truncate Last Digit (Default:00)**

<00H-3CH>((+R6A))

**Select Insertion (Default:00)**

<00H-02H>((+R9A))

## 3.13 MSI / Plessey
**Min. Length (Default:06)**

<01H-50H>((+R7A))

**Max. Length (Default:50H)**

<01H-50H>((+R8A))

## 3.14 CODE32

**Reading**

&lt;OFF&gt;((+S1A))

ON((+S1B))

**Code ID (Default: S)**

&lt;20H-7FH&gt;((+S2A))

**Verification**

&lt;OFF&gt;((+S3A))

ON((+S3B))

**Transmit Check Character**

&lt;OFF&gt;((+S4A))

ON((+S4B))

**Truncate Leading Digit( Default:00)**

&lt;00H-0AH&gt;((+S5A))

**Truncate Last Digit(Default:00)**

&lt;00H-0AH&gt;((+S6A))

**Select Insertion (Default:00)**

&lt;00-02H&gt;((+S7A))

**Transmit "A"**

&lt;OFF&gt;((+S8A))

ON((+S8B))

## 3.15 Code 11
### Reading

<OFF>((+T1A))

ON((+T1B))

### Code ID (Default: T )

<20H-7EH>((+T2A))

### Verification

<OFF>((+T3A))

ON((+T3B))

### Transmit Check Character

<OFF>((+T4A))

ON ((+T4B))

### Truncate Leading Digit (Default:00)

<00H-50H>((+T5A))

### Truncate Last Digit (Default:00)

<00H-50H>((+T6A))

### Select Insertion(Default:00)

<00H-02H>((+T9A))

### Min. Length (Default:06)

<01H-50H>((+T7A))

### Max. Length (Default:50H)

<01H-50H>((+T8A))

## 3.16 RSS Code (Option)
### RSS-14
Reading

<OFF> ((+U1B))

ON ((+U1A))

Application ID transmit

OFF((+UAA))

<ON>((+UAB))

### RSS-14 Limited
Reading

<OFF> ((+U2B))

ON ((+U2A))

Application ID transmit

OFF((+UBA))

<ON>((+UBB))

### RSS-14 Expanded
Reading

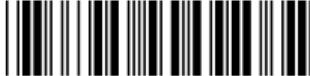<OFF> ((+U3B))

ON ((+U3A))

### RSS code To UPC/EAN
Reading

<OFF> ((+U4B))

ON ((+U4A))

## 4.1 Wand type(Option)

**Output polarity**

||||||||||||||||||||||||||||||
<Bar = High>((+D1A))

||||||||||||||||||||||||||||||
Bar =Low((+D1B))

**Output data format**

||||||||||||||||||||||||||||||
<Transmit in Normal format>
((+D2A))

||||||||||||||||||||||||||||||
Transmit in Code 39 format
((+D2B))

||||||||||||||||||||||||||||||
Transmit in Code 128 format
((+D2C))

**Scan speed**

||||||||||||||||||||||||||||||
Low(5ms)
((+D3A))

||||||||||||||||||||||||||||||
Medium(2ms)
((+D3B))

||||||||||||||||||||||||||||||
High(0.5ms)
((+D3C))

---

APPENDIX A -- ASCII CODE

| | |
|---|---|
| 0 | A |
| 1 | B |
| 2 | C |
| 3 | D |
| 4 | E |
| 5 | F |
| 6 | Y |
| 7 | N |
| 8 | |
| 9 | |

---
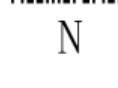
ASCII Table

|   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|
| 0 | NUL | DLE | SP | 0 | @ | P | ` | p |
| 1 | SOH | DC1 | ! | 1 | A | Q | a | q |
| 2 | STX | DC2 | " | 2 | B | R | b | r |
| 3 | ETX | DC3 | # | 3 | C | S | c | s |
| 4 | EOT | DC4 | $ | 4 | D | T | d | t |
| 5 | ENQ | NAK | % | 5 | E | U | e | u |
| 6 | ACK | SYN | & | 6 | F | V | f | v |
| 7 | BEL | ETB | ' | 7 | G | W | g | w |
| 8 | BS | CAN | ( | 8 | H | X | h | x |
| 9 | HT | EM | ) | 9 | I | Y | i | y |
| A | LF | SUB | * | : | J | Z | j | z |
| B | VT | ESC | + | ; | K | [ | k | { |
| C | FF | FS | , | < | L | ¥ | l | | |
| D | CR | GS | − | = | M | ] | m | } |
| E | SO | RS | . | > | N | ^ | n | ~ |
| F | SI | US | / | ? | O | _ | o | DEL |

APPENDIX B -- Function Key Table

|   | 0 | 1 |
|---|---|---|
| 0 | NULL | CTRL |
| 1 | UP | F1 |
| 2 | DOWN | F2 |
| 3 | LEFT | F3 |
| 4 | RIGHT | F4 |
| 5 | PAGE UP | F5 |
| 6 | PAGE DOWN | F6 |
| 7 |  | F7 |
| 8 | BS | F8 |
| 9 | TAB | F9 |
| A |  | F10 |
| B | HOME | ESC |
| C | END | F11 |
| D | ENTER | F12 |
| E | INSERT | ALT |
| F | DELETE | SHIFT |

Start Configuration((+SETF)) ||||||||||||||||||||||||||

Function Key Code
Before scanning, please turn on the Full CODE 39.

UP($A)

F5($U)

F10($Z)

CTRL-L($G)

F1($Q)

HOME($K)

ALT-L($J)

DOWN($B)

PAGE
DOWN($F)

ESC(%A)

SHIFT-L($P)

F2($R)

F6($V)

END($L)

LEFT($C)

F7($W)

F11(%B)

F3($S)

BS($H)

F12(%C)

RIGHT($D)

F8($X)

INSERT($N)

F4($T)

TAB($I)

DELETE($O)

PAGE
UP($E)

F9($Y)

ENTER($M)