Value Each Gram A professional weighing products manufacturer and supplier


# Thermal Printer **POS58 - P58**

# User Manual

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Value Each Gram

HiWEIGH
Weighing system & solution

# POS-58

# Receipt Printer

# User Manual

All specifications are subjected to change without notice

**Notice:**

This manual has been prepared for various models with same body that have built at Our Company. So some content of this manual may not use on your device.

# 1 INTRODUCTION

## 1.1 POS-58 Receipt Printer

POS-58 is designed for use for use with electronic instruments such as ECR,POS,banking equipment,computer peripheral equipment,etc.

## 1.2 Feature

High Speed printing: 90mm per second
Low noise thermal printing.
Interface: RS-232(POS-58S),Parallel(POS-58P),USB(POS-58U)
12V or 24V cash drawer interface.
Barcode printing is possible by using a barcode command.
Different print densities can be selected by PC S/W

## 1.3 Outline

| | |
|---|---|
| Printing Method: | Thermal |
| Paper Width: | 57.5mm |
| Paper Diameter: | 55mm |
| Resolution: | 203DPI |
| Printing Speed: | Up to 90mm/s |
| Barcode Supported: | I25,UPC-A,UPC-E,EAN-8, EAN-13,Codebar,Code39, Code93,Code128,Code11,MSI |
| Font: | ASCII(12x24),(8x16)) |
| Graphic printing: | Direct bitmap printing<br>Page mode printing |
| Paper Sensor: | Photo-sensor |
| Head tempeture detection: | Thermistor |
| Communication Interface: | RS232,PARALLEL,USB,ETHERNET optional |
| Cash drawer interace: | Support 12V/24V cash drawer |
| Power supply: | 9V,3A |
| Power | <1W(Idle)<br>45W(printing) |
| Head Life: | 50km |
| Printing width: | 48mm |
| Operation condition: | 5~45℃，20~90%RH(40℃) |
| Storage condition: | -40~60℃，20~93%RH(40℃) |
| Dimension: | 168x108x81 |
| Weight: | 0.370kg |

## 1.4 Caution

Some semiconductor devices are easily damaged by static electricity. You should turn the printer

"OFF", before you connect or remove the cables on the rear side, in order to guard the printer against the static electricity. If the printer is damaged by the static electricity, you should turn the printer "OFF".

This Apparatus complies with class "A" limits for radio interference

# 2 SETTING UP THE PRINTER

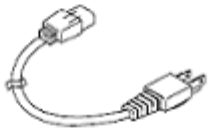
## 2.1 Unpacking

Your printer box should include these items. If any items are damaged or missed,please contack your dealer for assistance.

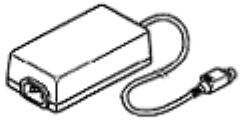
## 2.2. Main frame

1-1 Printer

1-2 Paper roll



1-3 Power cord



1-4 Power adapter

1-5 Commucation cable

## 2.3. Connecting the printer

According to the printer type, connect the correct communication cable to the printer.

| | |
|---|---|
| POS-58-S | RS232 |
| POS-58-L | PARALLEL |
| POS-58-U | USB |
| POS-58-E | ETHERNET |

You can connect up the three cable to the printer. They all connect to the connector panel on

the back of the printer:

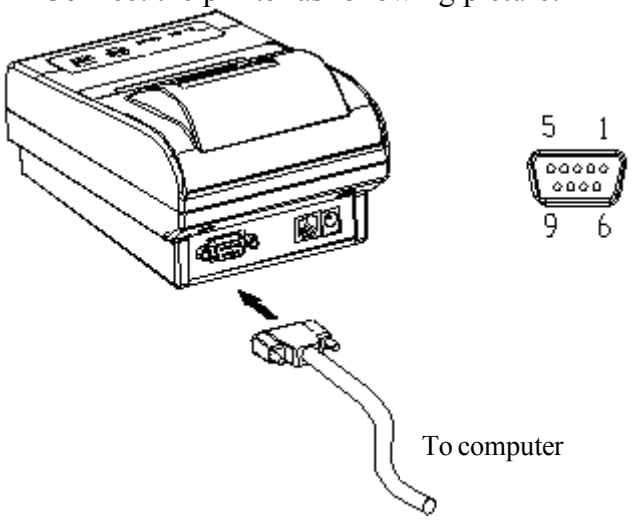
Commucation cable
Cash drawer cable
Power supply connector

Note: Before connecting any of the cable, make sure that both the printer and the host are turned off.

## 2.3.1 RS232 INTERFACE

POS-58S use RS232 intreface to connect the printer and host computer. It use DB9 RS232 interface, support RTS/CTS，DSR/DTR，XON/XOFF flow control protocol.

Connect the printer as following picture:




RS232 PIN definition：

| PIN | SIGNAL | IO | DEFINITION |
|---|---|---|---|
| 1 | DCD | NC | |
| 2 | RxD | OUT | Send the printer status to PC |
| 3 | TxD | IN | Receive command and data from PC |
| 4 | DTR | NC | |
| 5 | GND | --- | GND |
| 6 | DSR | OUT | ON: Paper is ready<br>OFF: No Paper or No power |
| 7 | RTS | NC | |
| 8 | CTS | OUT | Clear to send |
| 9 | RI | NC | |

## 2.3.2 PARALLEL INTERFACE

POS-58 use 8 bit standard parallelinterface. It use DB25 male socket.

Parallel pin definition:

| PIN | SIGNAL | IO | DEFINITION |
|---|---|---|---|
| 1 | /STB | IN | Latch strobe pulse. The printer will latch the data at the position edge. |
| 2 | D1 | IN | DATA BIT0(LSB) |
| 3 | D2 | IN | DATA BIT1 |
| 4 | D3 | IN | DATA BIT2 |
| 5 | D4 | IN | DATA BIT3 |
| 6 | D5 | IN | DATA BIT4 |
| 7 | D6 | IN | DATA BIT5 |
| 8 | D7 | IN | DATA BIT6 |
| 9 | D8 | IN | DATA BIT7 (MSB) |
| 10 | /ACK | OUT | The printer acknology, indicate that the printer has fineshed one byte data reading. |
| 11 | BUSY | OUT | The printer busy signal， When it is high, the printer can not receive data from PC |
| 12 | PE | OUT | Paper error signal, When it is high, indication that the printer is out of paper. |
| 13 | SEL | OUT | Connect to 5V by a 47K resistor |
| 14 | NC | — | |
| 15 | ERR | OUT | ERROR, When it is low, the printer is in errorstatus. It can be caused by out of paper or the printer head tempreture |
| 16-17 | NC | --- | |
| 18-25 | GND | --- | |

## 2.3.3 USB INTERFACE

POS-58U use the B-Type USB interface as the followed picture.

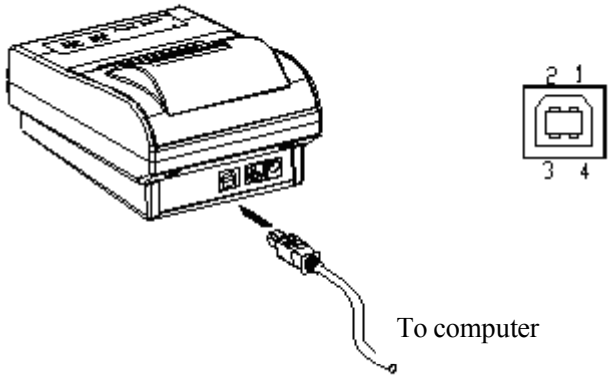
In order to use the USB type, please install the USB driver first. When the driver is installed, the computer will add one virtual COM port, such COM3, COM4 etc.

It can be used the samle as RS232. The printer and computer must select the same RS232 COM parametres.

## 2.3.4 ETHERNET INTERFACE

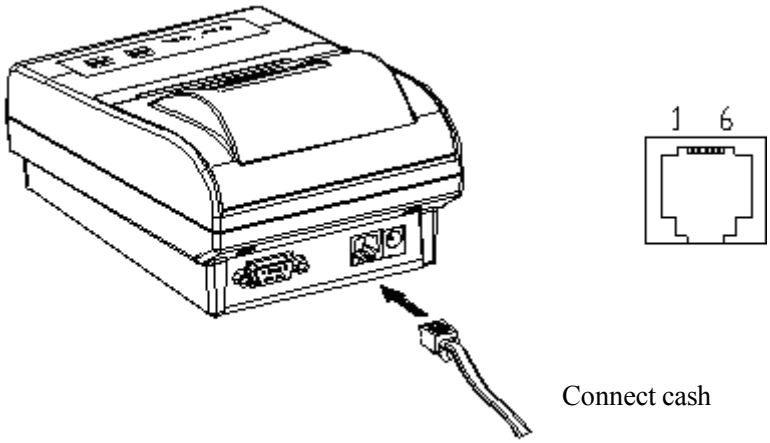
POS-58E use RJ45 socket. The communication cable is not provided by the printer.

The IP address of the printer can be setted up be PC S/W.




# 2.4 Connect the cash drawer

The printer use RJ-11 6line socket., support most 12V/24V cash drawer. Connecting the cash drawer as the followed picture:




Cash drawer socket definiction:

| PIN | DEFINITION | IO |
|---|---|---|
| 1 | GND | |
| 2 | Cash drawer open control | IN |
| 3 | | |
| 4 | +24V | POWER |
| 5 | Cash drawer open control | IN |
| 6 | | |

**NOTE:**

Use a drawer the matches the printer specification. Using an improper drawer may damage the drawer as well as the printer.

Must not connect the telegphone line to the cash drawer.

# 3 USING THE PRINTER

## 3.1 Control Panel

## 3.2 Online and Offtline

The “LINE” buttons will toggle the printer with on “online”, “offline”mode.

**NOTE:**
When powered up, the printer will stay in the “online” mode.
When in “online” mode, the printer receive and handle the data and command send by PC.
When in “offline” mode, the printer receive and handle the command send by PC, discard the send by PC.
When the printer is out of paper, the printer will enter “offline”.

## 3.3 Feed paper

Pressing the “FEED” button, the printer will feed the paper by 20mm.
**NOTE:**
When the printer is out of paper, the printer will not feed the paper.

## 3.4 Setting the baudrate

Baudrate setting is only effective with POS-58S and POS-58U.

1. Install the paper roll. Power down.
2. Press the “LINK” button. Don’t release it.
3. Power on POS-58
4. Release the “LINK” button after POS-58 starting printing.
5. Press the “FEED” to toggle the baudrate. POS-58 support the follows baudrate: 4800,9600,19200,38400,57600,115200
6. Repower up the POS-58.

Note:
The default value is 9600.

## 3.5 Enter the test mode

The test mode use to test the printer printing function.
1. Power down.
2. Install the paper roll.
3. Press the “feed” button. Don’t release it.
4. Power up.

POS-58 will print the printing test page.

## 3.6 Enter the debug mode

Debug mode allow experienced users to see exactly what data is coming to the printer. This can useful in finding software problems. When you turn on the debug mode, the printer prints all commands and data in hexadecimal format along widht a guide section to help you find specific command.

1. Remove the paper roll. Power down
2. Press the “feed” button, Don’t release it.
3. Power up POS-58
4. Release the “feed” button.
5. Install the paper roll.

In debug mode, POS-58 will prints all commands and datas in hexadecimal format as follows:

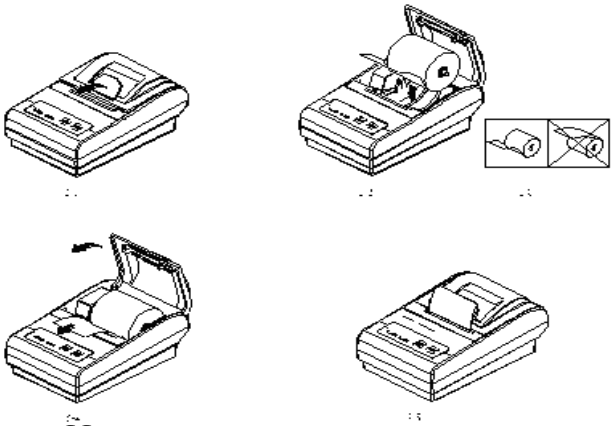
```
1B21 001B 2602 4040 .!..&.@@
4040 020D 1B44 0A14 @@...D..
1E28 2828 0001 0A41 .(((...A
0D42 0A43 4343 4445 .B.CCCDE
```

Note:
In debug mode, POS-58S, POS-58U will change the baudrate with “online” key. Make sure the baudreate is your want please.

# 3.7 Install the paper roll

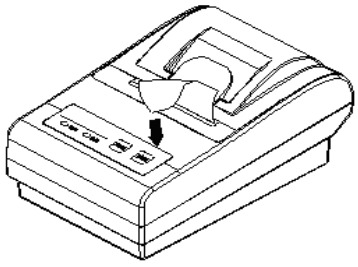
POS-58 has easy-loading paper mechanism. Installing or Replacing the paper roll as follows:

1. Open the paper roll cover by pulling up the fastener. see fig2-1
2. Remove the used paper roll core if there is one.
3. Insert the paper roll as shown 2-3, 2-2.
4. Be sure to note the correct direction that the paper comes off the roll.
5. Pull out a small amount of paper, as shown 2-4, Then close the cover.
6. Install OK. as shown 2-5.



# 3.8 Tear off paper

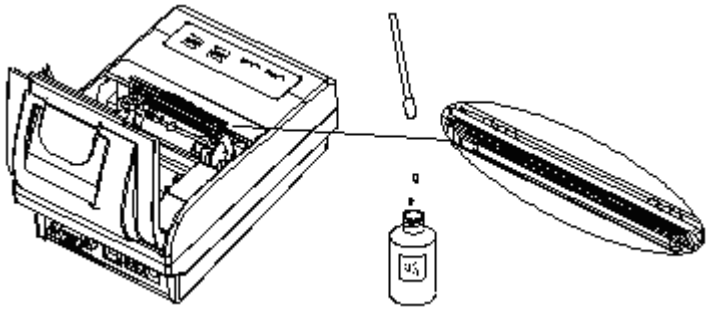
Tear off the paper as shown



# 3.9 Cleaning printing machine

When Thermal printing paper be added to thermal printing machine, some material in the paper will be residual in the machine. Residual degree is related to the printing density stetted and paper .The residual will affect the printing effect and the life of the machine. Please clean the printing machine regularly as follows:

1. open the cover
2. stick a little pure alcohol by cotton bud
3. Use the cotton bud to scrub the surface of thermal printing scale smoothly
4. be sure that the alcohol is volatilized before you use the machine again



# 4 TROUBLE REMOVAL

1.Trouble: the printing word isn't clear
.Handle method: a.clean the print head
b. re-set the print density for the Thermal printing paper in bad quality

2.Trouble: print blank
.Handle method: a. make sure it is thermal printing paper and the paper is in right direction
b. make sure the thermal print head is in good condition

3Trouble: the self check is ok, but can't print
Handle method: a..be sure the printer in good connection and in printing state
b.be sure the PC software in correct setting
c.be sure the baud rate is right

4.Trouble: the self check is ok, but print disorderly
Handle method: adjust setting parameter for the serial port of printer isn't match with computer"s

5.Trouble: the vertical parts can't be print correctly
Handle method: a.make sure there isn't any dirty thing in the thermal printing machine
b. make sure there isn't any damage in the thermal printing machine
c. make sure there isn't stoppage in motherboard and thermal printing machine

6.Trouble: the printer can't work
Handle method:a. it doesn't connect with power supply or the battery is in bad condition
b.the power supply for the printer is error

7Trouble : the printer can start up normally, but can't print
Handle method: a.make sure the thermal printing head is in good manner
b. make sure the voltage of power supply is correct
c. make sure the thermal printing paper install

# 5 ESC/POS PRINTING COMMAND SET

## 5.1 Set of Command

| Type | Command | Name |
|---|---|---|
| Print Command | LF | Print and line feed |
| | ESC J | Print and Feed n dots paper |
| Line spacing Command | ESC 2 | Select default line spacing |
| | ESC 3 n | Set line spacing |
| | ESC a n | Select justification |
| Character Command | ESC ! n | Select print mode(s) |
| | ESC SO | Turn double width on |
| | ESC DC4 | Turn double width off |
| | ESC { n | Turn upside-down printing mode on/off |
| | ESC B n | Turn inverting printing mode on/off |
| | ESC % n | Select/Cancel user-defined characters |
| | ESC & | Define user-defined characters |
| | ESC ? | Cancle user-defined characters |
| | ESC R n | Select and internation character set |
| | ESC t n | Select character code table |
| Bit Image Command | ESC * | Select bit-image mode |
| | GS * | Define downloaded bit image |
| | GS / | Print downloaded bit image |
| Cash drawer command | ESC p | Generate cash drawer control pulse |
| Key Control Command | ESC c 5 | Enable/disable panel buttons |
| Init Command | ESC @ | Initialize printer |
| Status Command | ESC v n | Transmit paper sensor status |
| | ESC u | Transmit peripheral device status |
| | GS a | Enable/Disable AutomaticStatus Back(ASB) |
| | ECS = n | Set printer online status |
| Status Command | ESC v | Transmit paper sensor status |
| | ESC u | Transmit peripheral device status |
| | GS a | Enable/Disable AutomaticStatus Back(ASB) |
| Bar Code Command | GS H | Select printing position of human readable characters |
| | GS h | Set bar code height |
| | GS w | Set bar code width |
| | GS k | Print bar code |
| Print Posiiton and Page Command | ESC L | Setlect page mode |
| | FF | Print and return to standard mode(in page mode) |
| | ESC FF | Print data in page mode |
| | CAN | Cancel print data in page mode |

| | | |
|---|---|---|
| | ESC W ... | Set printing area in page mode |
| | ESC $ nL nH | Set absolute print X position |
| | GS $ nL nH | Set absolute print Y position |
| | ESC \ nL nH | Set relative print X position |
| | GS \ nL nH | Set relative print Y position |
| | GS L nL nH | Set left margin |
| | GS W nL nH | Set printing area width |

# 5.2 Command detail

POS-58 printer use ESC/POS command set.
The printing command is descripted as followed format:

| CMD | | Function |
|---|---|---|
| Format | ASCII | List by ASCII characters |
| | Decimal | List by decimal characters |
| | Hexadecimal | List by hexadecimal characters |
| Description | Command function description | |
| Example | Command use example | |

## 5.2.1 Print Commands

| LF | | Print and line feed |
|---|---|---|
| Format | ASCII | LF |
| | Decimal | 10 |
| | Hexadecimal | 0A |
| Description | LF prints the data in the print buffer and feeds one line.<br>When the print buffer is empty, LF feeds one line. | |

| ESC J n | | Print and feed paper |
|---|---|---|
| Format | ASCII | ESC J n |
| | Decimal | 27 74 n |
| | Hexadecimal | 1B 4A n |
| Description | n = 0-255。<br>ESC J prints the data in the print buffer and feeds n dots.<br>The command will not change the setting set by command ESC 2, ESC 3. | |

## 5.2.2 Line spacing setting command

| ESC 2 | | Select default line spacing |
|---|---|---|
| Format | ASCII | ESC 2 |
| | Decimal | 27 50 |
| | Hexadecimal | 1B 32 |
| Description | ESC 2 sets the line space to default value (30dots) | |

| ESC 3 n | | Set line spacing |
|---|---|---|
| Format | ASCII | ESC 3 n |
| | Decimal | 27 51 n |
| | Hexadecimal | 1B 33 n |
| Description | n = 0-255<br>ESC 3 n sets the line spacing to n dots.<br>The default value is 30 | |

| ESC a n | | Select align mode |
|---|---|---|
| Format | ASCII | ESC a n |
| | Decimal | 27 97 n |
| | Hexadecimal | 1B 61 n |
| Description | The command is only used in the standard mode.<br>0 ≤ m ≤ 2 or 48 ≤ m ≤ 50<br>Align left: n=0,48<br>Align middle: n=1,49<br>Align right: n=2,50 | |

## 5.2.3 Character command

| ESC ! n | | Select print mode |
|---|---|---|
| Format | ASCII | ESC ! n |
| | Decimal | 27 33 n |
| | Hexadecimal | 1B 21 n |

Description

The default value is 0. This command is effective for all characters.

BIT0: 0:Character font 12x24 selected
1:Character font 8x16 selected

BIT1:

BIT2:

BIT3: 1:Emphasized mode selected
0:Emphasized mode not selected

BIT4: 1:Double Height mode selected
0:Double Height mode not selected

BIT5: 1:Double Width mode selected
0:Double Width mode not selected

BIT6:

BIT7: 1:Underline mode selected
0:Underline mode not selected

| ESC SO | | Select Double Width mode |
|---|---|---|
| Format | ASCII | ESC SO |
| | Decimal | 27 14 |
| | Hexadecimal | 1B 0E |
| Description | Select Double Width mode<br>To turn double width off, use LF or DC4 command. | |

ESC DC4 Disable Double Width mode

| | | |
|---|---|---|
| Format | ASCII | ESC DC4 |
| | Decimal | 27 20 |
| | Hexadecimal | 1B 14 |
| Description | Disable Double Width mode | |

ESC { n Set/Cancel Character Updown mode

| | | |
|---|---|---|
| Format | ASCII | ESC { n |
| | Decimal | 27 123 n |
| | Hexadecimal | 1B 7B n |
| Description | n=1:Enable Updown mode<br>n=0:Disable Updown Mode<br>Default value is 0 | |

ESC B n Turn white/black reverse printing mode on/off

| | | |
|---|---|---|
| Format | ASCII | ESC B n |
| | Decimal | 27 66 n |
| | Hexadecimal | 1B 42 n |
| Description | n=1:Enable white/black reverse mode<br>n=0:Disable white/black reverse mode<br>Default value is 0 | |

ESC % n Enable/Disable User-defined Characters

| | | |
|---|---|---|
| Format | ASCII | ESC % n |
| | Decimal | 27 37 n |
| | Hexadecimal | 1B 25 n |
| Description | n=1:Enable User-defined character<br>n=0:Disable User-defined character | |

ESC & s n m w Define User-defined characters

| | | |
|---|---|---|
| Format | ASCII | ESC & s n m w d1 d2 ... dx |
| | Decimal | 27 38 s n w m d1 d2 ... dx |
| | Hexadecimal | 1B 26 s n w m d1 d2 ... dx |

Description

The command is used to define user-defined character.

s=2 or 3, 32≤ n ≤ m < 127

s: Character height bytes, =2(16dots); =3(24dots)

w: Character width 0～8(s=2), 0～12(s=3)

n: User-defined character starting code

m: User-defined characters ending code

dx:data, x=s*w

s=3

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| d1 | d4 | d7 | | | | | | | | |
| d2 | d5 | d8 | | | | | | | | |
| d3 | d6 | d9 | | | | | | | | d36 |

s=2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| d1 | d3 | d5 | | | | | |

dx format:

| | |
|---|---|
| dx | BIT 7 |
| | BIT 6 |
| | BIT 5 |
| | BIT 4 |
| | BIT 3 |
| | BIT 2 |
| | BIT 1 |
| | BIT 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| d2 | d4 | d6 | | | | | d16 |

ESC ? n — Disable user-defined character

| Format | | |
|---|---|---|
| | ASCII | ESC ? n |
| | Decimal | 27 37 n |
| | Hexadecimal | 1B 25 n |

Description

ESC ? n disable user-defined characters, printer will use the interal character.

ESC R n — Select an internal character set

| Format | | |
|---|---|---|
| | ASCII | ESC R n |
| | Decimal | 27 82 n |
| | Hexadecimal | 1B 52 n |

Description

Select an internal character set n as follows:

| | | |
|---|---|---|
| 0:USA | 5:Sweden | 10:Denmark II |
| 1:France | 6:Italy | 11:Spain II |
| 2:Germany | 7:Spain1 | 12:Latin America |
| 3:U.K. | 8:Japan | 13:Korea |
| 4:Denmark 1 | 9:Norway | |

ESC t n — Select character code table

| Format | | |
|---|---|---|
| | ASCII | ESC t n |
| | Decimal | 27 116 n |
| | Hexadecimal | 1B 74 n |

Description

Select a page n from the character code table as follows::

| | | |
|---|---|---|
| 0:437 | 4:860 | 8:862 |
| 1:850 | 5:861 | 254.Persian |
| 2:852 | 6:863 | 255.Chinese |
| 3:857 | 7:858 | |

POS-58 Support only 0, 1, 256

## 5.2.4 Bit Image Command

ESC * m nL nH d1 d2...dk — Select bit-image mode

| Format | | |
|---|---|---|
| | ASCII | ESC * m nL nH d1 d2 ... dk |
| | Decimal | 27 42 m nL nH d1 d2 ... dk |
| | Hexadecimal | 1B 2A m nL nH d1 d2 ... dk |

Description

This command selects a bit image mode using m for the number of dots specifed by (nL+nH*256)

m =0,1,32,33。

nL=0-255

nH=0-3

dx=0-255

k = nL+256*nH (m=0,1)

k = (nL+256*nH)*3 (m=32,33)

The modes selected by m are as follows:

0：8dots single density，102dpi

1: 8dots double density，203dpi

31:24 dots single density,102dpi

32:24 dots double density,203dpi

The bit image format is the same as user-defined character.

GS / n — Print downloaded bit image

| Format | | |
|---|---|---|
| | ASCII | GS / n |
| | Decimal | 29 47 n |
| | Hexadecimal | 1D 2F n |

Description

This command prints a downloaded bit image using the mode specified by n as specified in the chart.In standard mode, this command is effective only when there is no data in the print buffer. This command is ignored if a downloaded bit image has not been defined.

n=0-3、48-51: Specify bit image mode

| n | Bit Image Mode | Vertical DPI | Horizontal DPI |
|---|---|---|---|
| 0,48 | Normal | 203DPI | 203DPI |
| 1,49 | Double width | 203DPI | 101DPI |
| 2,50 | Double height | 101DPI | 203DPI |
| 3,51 | Quadruple | 101DPI | 101DPI |

n=65-68: Print logo 1-4

GS * x y d1...dk — Define downloaded bit image

| Format | | |
|---|---|---|
| | ASCII | GS * x y d1 ... dk |
| | Decimal | 29 42 x y d1 ... dk |
| | Hexadecimal | 1D 2A x y d1 ... dk |

Description This command defineds a downloaded bit image by using x*8 dots in the horizontal direction and y*8 dots in the vertical direction. Once a downloaded bit image has been define, it is avaiable until

- Another definition is made
- ESC & or ESC @ is executed
- The power is turned off
- The printer is reset

x=1～48(width)，y＝1～255(height)，x×y ﹤ 2304，k=x×y×8

## 5.2.5 Cash drawer control command

ESC p m n1 n2 — Generate pulse

| Format | | |
|---|---|---|
| | ASCII | ESC p m n1 n2 |
| | Decimal | 27 112 m n1 n2 |

| | |
|---|---|
| | Hexadecimal 1B 70 m n1 n2 |
| Description | Send a pulse to the specified connector pin. It is used to open the cash drawer.<br>m: special the pin the pulse is send to. 0:pin2, 1:pin5<br>n1,n2:pulse on & off time. (unit:2ms) |

## 5.2.6 Key control command

| ESC c 5 n | Enable/Disable the panel key |
|---|---|
| Format | ASCII ESC c 5 n<br>Decimal 27 99 53 n<br>Hexadecimal 1B 63 35 n |
| Description | n=1, Disable the panel key<br>n=0, Enable the panel key(Default) |

## 5.2.7 Init command

| ESC @ | Initialize the printer |
|---|---|
| Format | ASCII ESC @<br>Decimal 27 64<br>Hexadecimal 1B 40 |
| Description | Initializes the printer.<br>➢ The print buffer is cleared.<br>➢ Reset the param to default value.<br>➢ return to standard mode<br>➢ Delete user-defined characters |

## 5.2.8 Status Command

| ESC v | Transmit paper sensor status |
|---|---|
| Format | ASCII ESC v n<br>Decimal 27 118 n<br>Hexadecimal 1B 76 n |
| Description | Transmits the status of the paper sensor as 1 byte of data.<br>POS-58P not supports this command. Only in serial type printer effective.<br>The status byte definition(n=1): |

| Bit | Function | Value |
|---|---|---|
| 0 | | |
| 1 | | |
| 2 | NO PAPER | 1 |
| 3 | MECHANISM ERROR | 1 |
| 4 | 0 | 0 |
| 5 | | |
| 6 | PRINTER TEMPERAUTRE OVER | 1 |
| 7 | | |

GS a n — Enable/Disable Automatic Status Back(ASB)

Format

| | |
|---|---|
| ASCII | GS a n |
| Decimal | 29 97 n |
| Hexadecimal | 1D 61 n |

Description POS-58P don't support this command, Only in serial type printer effective.
n definition as follows:

| Bit | Function | Value | |
|---|---|---|---|
| | | 0 | 1 |
| 0 | 0 | | |
| 1 | | | |
| 2 | Disable/Enable ASB | Disable | Enable |
| 3-4 | | | |
| 5 | Disable/Enable set busy when in ERROR status RTS=BUSY | Disable | Enable |
| 6-7 | | | |

When ASB is enabled, the printer will send the changed status to PC automatically.

ESC u — Transmit peripheral devices status

Format

| | |
|---|---|
| ASCII | ESC u |
| Decimal | 27 117 |
| Hexadecimal | 1B 75 |

Description POS-58P don't support this command, Only in serial type printer effective..
Return status bytes definetion:
bit0: Drawer status.
bit4: 0
POS-58 always return 0 back.

ESC = n — Transmit peripheral devices status

Format

| | |
|---|---|
| ASCII | ESC = n |
| Decimal | 27 61 n |
| Hexadecimal | 1B 3D n |

Description n=0, offline; n=1, online

## 5.2.9 Bar Code Command

GS H n — Select printing position of human readable characters

Format

| | |
|---|---|
| ASCII | GS H n |
| Decimal | 29 72 n |
| Hexadecimal | 1D 48 n |

Description 0 ≤ n ≤3
48 ≤ n ≤51
This command selects the printing position for human readable characters when printing a barcode. The default is n=0. Human readable characters are printed using the font specified by GS fn. Select the printing position as follows:
n Printing Positioin
0,48: Not printed
1,49: Above the barcode
2,50: Below the barcode
3,51: Both above and below the barcode

GS h n — Set bar code height

| Format | | | | |
|---|---|---|---|---|
| | ASCII | GS | h | n |
| | Decimal | 29 | 104 | n |
| | Hexadecimal | 1D | 68 | n |

Description This command selects the height of a barcode. n specifies the number of dots in the vertical direction. The default value is 50
1 ≤ n ≤ 255

GS w n — Set bar code width

| Format | | | | |
|---|---|---|---|---|
| | ASCII | GS | w | n |
| | Decimal | 29 | 119 | n |
| | Hexadecimal | 1D | 77 | n |

Description This command selects the horizontal size of a barcode.
n = 2,3
The default value is 3

GS k m d1 d2 ... dk NUL
GS k m n d1 d2 ... dn — Print barcode symbology

| | | | | | | |
|---|---|---|---|---|---|---|
| Format 1 | ASCII | GS | k | m | d1 d2 ... dk | NUL |
| | Decimal | 29 | 107 | m | d1 d2 ... dk | 0 |
| | Hexadecimal | 1D | 6B | m | d1 d2 ... dk | 00 |
| Format 2 | ASCII | GS | k | m n | d1 d2 ... dn | |
| | Decimal | 29 | 107 | m n | d1 d2 ... dn | |
| | Hexadecimal | 1D | 6B | m n | d1 d2 ... dn | |

Description m: barcode type
Format 1: 0 ≤ m ≤ 10
Format 2: 65 ≤ m ≤ 75
n: barcode length

| m | Bar code system | Number of characters | Remarks |
|---|---|---|---|
| 0,65 | UPC-A | 11,12 | 48-57 |
| 1,66 | UPC-E | 11,12 | 48-57 |

| | | | |
|---|---|---|---|
| 2,67 | EAN13 | 12,13 | 48-57 |
| 3,68 | EAN8 | 7,8 | 48-57 |
| 4,69 | CODE39 | >1 | 32,36,37,43,45-57,65-90 |
| 5,70 | I25 | >1<br>even number | 48-57 |
| 6,71 | CODEBAR | >1 | 36,43,45-58,65-68 |
| 7,72 | CODE93 | >1 | 0-127 |
| 8,73 | CODE128 | >1 | 0-127 |
| 9,74 | CODE11 | >1 | 48-57 |
| 10,75 | MSI | >1 | 48-57 |

If materials are illegal characters, printer will not print the barcode

If the bar code more than effective print width, the printer results unknown.

The command, according to bar code printer will set the print bar code, and line spacing have nothing to do

## 5.2.10 Print Posiiton and Page Command

| ESC L | | Select page mode |
|---|---|---|
| Format | ASCII | ESC L |
| | Decimal | 27 76 |
| | Hexadecimal | 1B 4C |
| Description | This command set the printer into page mode.<br>Reset the current positioni to (0,0)<br>Page width is 384 ,height is 512. | |

| FF | | Print the page buffer data and return to standard mode |
|---|---|---|
| Format | ASCII | FF |
| | Decimal | 255 |
| | Hexadecimal | FF |
| Description | Print the page buffer data, and return to standard mode. | |

| ESC FF | | Print the page buffer data |
|---|---|---|
| Format | ASCII | ESC FF |
| | Decimal | 27 255 |
| | Hexadecimal | 1B FF |
| Description | Print the page buffer data | |

| CAN | | Clear page buffer data |
|---|---|---|
| Format | ASCII | CAN |
| | Decimal | 24 |
| | Hexadecimal | 18 |
| Description | Reset the page buffer data to zero. | |

| ESC W sxL sxH syL syH wxL wxH wyL wyH | | Set page params |
|---|---|---|
| Format | ASCII | ESC W sxL sxH syL syH wxL wxH wyL wyH |

| | | |
|---|---|---|
| | Decimal | 27 87 sxL sxH syL syH wxL wxH wyL wyH |
| | Hexadecimal | 1B 57 sxL sxH syL syH wxL wxH wyL wyH |
| Description | Set the page size and margin<br>Left margin: sxL+256*sxH<br>Top margin: syL+256*syH<br>Width: wxL+256*wxH<br>Height : wyL+256*wyH<br>Default Value: Left:0 Top:0 Width:384 Height:512 | |

ESC $ nL nH — Set absolute X position

| | | |
|---|---|---|
| Format | ASCII | ESC $ nL nH |
| | Decimal | 27 36 nL nH |
| | Hexadecimal | 1B 24 nL nH |
| Description | Set absolute X position | |

GS $ nL nH — Set absolute Y position

| | | |
|---|---|---|
| Format | ASCII | GS $ nL nH |
| | Decimal | 29 36 nL nH |
| | Hexadecimal | 1D 24 nL nH |
| Description | Set absolute Y position | |

ESC \ nL nH — Set relative X position

| | | |
|---|---|---|
| Format | ASCII | ESC \ nL nH |
| | Decimal | 27 92 nL nH |
| | Hexadecimal | 1B 5C nL nH |
| Description | Set relative X position | |

GS \ nL nH — Set relative Y position

| | | |
|---|---|---|
| Format | ASCII | GS \ nL nH |
| | Decimal | 29 92 nL nH |
| | Hexadecimal | 1D 5C nL nH |
| Description | Set relative Y position | |

GS L nL nH — Set left margin

| | | |
|---|---|---|
| Format | ASCII | GS L nL nH |
| | Decimal | 29 76 nL nH |
| | Hexadecimal | 1D 4C nL nH |
| Description | Set left margin | |

GS W nL nH — Set page width

| | | |
|---|---|---|
| Format | ASCII | GS W nL nH |
| | Decimal | 29 87 nL nH |
| | Hexadecimal | 1D 57 nL nH |
| Description | Set page width | |

# 6 Sample Programming

The following sample suggest that "putchar(ch)" send one byte ch to the PD02.

Sample:

```
putchar(27); putchar('='); putchar(1);              // set printer online
putchar(27); putchar('t'); putchar(0);              // code page PC 437
putchar(29); putchar('/'); putchar(65);             // print logo 1
putchar(27); putchar('!'); putchar(0);              // set print font
putchar(27); putchar('a'); putchar(0);              // set align left
putchar(27); putchar('a'); putchar(27);             // line height 27/8mm
……                                                  // send print data
putchar(27); putchar('J'); putchar(120);            // Feed 15mm
putchar(27), putchar('0'); putchar(0); putchar(0); putchar(0);
                                                    // open drawer
putchar(27); putchar('='); putchar(0);              // set printer offline
```

note:

- ✓ Logo command is necessary.
- ✓ Logo is used to printer the bitmap which is downloaded by LinkPd02 first.
- ✓ Make sure the baudrate is the correct.

# APPENDIXA: CODE PAGE

## PC437

| | 0 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Ç | ü | é | â | ä | à | å | ç | ê | ë | è | ï | î | ì | Ä | Å |
| 9 | É | æ | Æ | ô | ö | ò | û | ù | ÿ | Ö | Ü | ¢ | £ | ¥ | ₧ | ƒ |
| A | á | í | ó | ú | ñ | Ñ | ª | º | ¿ | ⌐ | ¬ | ½ | ¼ | ¡ | « | » |
| B | ░ | ▒ | ▓ | │ | ┤ | ╡ | ╢ | ╖ | ╕ | ╣ | ║ | ╗ | ╝ | ╜ | ╛ | ┐ |
| C | └ | ┴ | ┬ | ├ | ─ | ┼ | ╞ | ╟ | ╚ | ╔ | ╩ | ╦ | ╠ | ═ | ╬ | ╧ |
| D | ╨ | ╤ | ╥ | ╙ | ╘ | ╒ | ╓ | ╫ | ╪ | ┘ | ┌ | █ | ▄ | ▌ | ▐ | ▀ |
| E | α | ß | Γ | π | Σ | σ | µ | τ | Φ | Θ | Ω | δ | ∞ | φ | ε | ∩ |
| F | ≡ | ± | ≥ | ≤ | ⌠ | ⌡ | ÷ | ≈ | ° | ∙ | · | √ | ⁿ | ² | ■ | |

## PC850

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Ç | ü | é | â | ä | à | å | ç | ê | ë | è | ï | î | ì | Ä | Å |
| 9 | É | æ | Æ | ô | ö | ò | û | ù | ÿ | Ö | Ü | ø | £ | Ø | × | ƒ |
| A | á | í | ó | ú | ñ | Ñ | ª | º | ¿ | ® | ¬ | ½ | ¼ | ¡ | « | » |
| B | ░ | ▒ | ▓ | │ | ┤ | Á | Â | À | © | ╣ | ║ | ╗ | ╝ | ¢ | ¥ | ┐ |
| C | └ | ┴ | ┬ | ├ | ─ | ┼ | ã | Ã | ╚ | ╔ | ╩ | ╦ | ╠ | ═ | ╬ | ¤ |
| D | ð | Ð | Ê | Ë | È | ı | Í | Î | Ï | ┘ | ┌ | █ | ▄ | ¦ | Ì | ▀ |
| E | Ó | ß | Ô | Ò | õ | Õ | µ | þ | Þ | Ú | Û | Ù | ý | Ý | ¯ | ´ |
| F | - | ± | ‗ | ¾ | ¶ | § | ÷ | ¸ | ° | ¨ | · | ¹ | ³ | ² | ■ | |

## PC852

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Ç | ü | é | â | ä | ů | ć | ç | ł | ë | Ő | ő | î | Ź | Ä | Ć |
| 9 | É | Ĺ | Í | ô | ö | Ľ | ľ | Ś | ś | Ö | Ü | Ť | ť | Ł | × | č |
| A | á | í | ó | ú | Ą | ą | Ž | ž | Ę | ę | ¬ | ź | Č | ş | « | » |
| B | ░ | ▒ | ▓ | │ | ┤ | Á | Â | Ě | Ş | ╣ | ║ | ╗ | ╝ | Ż | ż | ┐ |
| C | └ | ┴ | ┬ | ├ | ─ | ┼ | Ă | ă | ╚ | ╔ | ╩ | ╦ | ╠ | ═ | ╬ | ¤ |
| D | đ | Đ | Ď | Ë | ď | Ň | Í | Î | ě | ┘ | ┌ | █ | ▄ | Ţ | Ů | ▀ |
| E | Ó | ß | Ô | Ń | ń | ň | Š | š | Ŕ | Ú | ŕ | Ű | ý | Ý | ţ | ´ |

| F | - | ″ | ˛ | ˇ | ˘ | § | ÷ | ¸ | ° | ¨ | · | ű | Ř | ř | ■ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

## PC857

| 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Ç | ü | é | â | ä | à | å | ç | ê | ë | è | ï | î | I | Ä | Å |
| 9 | É | æ | Æ | ô | ö | ò | û | ù | İ | Ö | Ü | ø | £ | Ø | Ş | ş |
| A | á | í | ó | ú | ñ | Ñ | Ğ | ğ | ¿ | ® | ¬ | ½ | ¼ | ¡ | « | » |
| B | ░ | ▒ | ▓ | │ | ┤ | Á | Â | À | © | ╣ | ║ | ╗ | ╝ | ¢ | ¥ | ┐ |
| C | └ | ┴ | ┬ | ├ | ─ | ┼ | ã | Ã | ╚ | ╔ | ╩ | ╦ | ╠ | ═ | ╬ | ¤ |
| D | º | ª | Ê | Ë | È | ç | Í | Î | Ï | ┘ | ┌ | █ | ▄ | ¦ | Ì | ▀ |
| E | Ó | ß | Ô | Ò | õ | Õ | µ | Ç | × | Ú | Û | Ù | ì | ÿ | ¯ | ´ |
| F | - | ± | Ç | ¾ | ¶ | § | ÷ | ¸ | ° | ¨ | • | ¹ | ³ | ² | ■ | |

## PC860

| 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Ç | ü | é | â | ã | à | Á | ç | ê | Ê | è | Í | Ô | ì | Ã | Â |
| 9 | É | À | È | ô | õ | ò | Ú | ù | Ì | Õ | Ü | ¢ | £ | Ù | ₧ | Ó |
| A | á | í | ó | ú | ñ | Ñ | ª | º | ¿ | Ò | ¬ | ½ | ¼ | ¡ | « | » |
| B | ░ | ▒ | ▓ | │ | ┤ | ┤ | ┤ | ┐ | ┐ | ┤ | ╢ | ╖ | ╕ | ╣ | ┐ | |
| C | └ | ┴ | ┬ | ├ | ─ | ┼ | ├ | ╟ | └ | ┌ | ┴ | ┬ | ├ | ═ | ╬ | ┴ |
| D | ┴ | ┬ | ┬ | └ | └ | ┌ | ┌ | ╫ | ┼ | ┘ | ┌ | ▉ | ▄ | ▌ | ▐ | ▀ |
| E | α | ß | Γ | π | Σ | σ | µ | τ | Φ | Θ | Ω | δ | ∞ | φ | ε | ∩ |
| F | ≡ | ± | ≥ | ≤ | ⌠ | ⌡ | ÷ | ≈ | ° | ∙ | · | √ | ⁿ | ² | ■ | |

## PC861

| 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Ç | ü | é | â | ä | à | å | ç | ê | ë | è | Ð | ð | Þ | Ä | Å |
| 9 | É | æ | Æ | ô | ö | þ | û | Ý | ý | Ö | Ü | ø | £ | Ø | ₧ | ƒ |
| A | á | í | ó | ú | Á | Í | Ó | Ú | ¿ | ⌐ | ¬ | ½ | ¼ | ¡ | « | » |
| B | ░ | ▒ | ▓ | │ | ┤ | ┤ | ┤ | ┐ | ┐ | ┤ | ╢ | ╖ | ╕ | ╣ | ┐ | |
| C | └ | ┴ | ┬ | ├ | ─ | ┼ | ├ | ╟ | └ | ┌ | ┴ | ┬ | ├ | ═ | ╬ | ┴ |
| D | ┴ | ┬ | ┬ | └ | └ | ┌ | ┌ | ╫ | ┼ | ┘ | ┌ | ▉ | ▄ | ▌ | ▐ | ▀ |
| E | α | ß | Γ | π | Σ | σ | µ | τ | Φ | Θ | Ω | δ | ∞ | φ | ε | ∩ |
| F | ≡ | ± | ≥ | ≤ | ⌠ | ⌡ | ÷ | ≈ | ° | ∙ | · | √ | ⁿ | ² | ■ | |

## PC863

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Ç | ü | é | â | Â | à | ¶ | ç | ê | ë | è | ï | î | ‗ | À | § |
| 9 | É | È | Ê | ô | Ë | Ï | û | ù | ¤ | Ô | Ü | ¢ | £ | Ù | Û | ƒ |
| A | ¦ | ´ | ó | ú | ¨ | ¸ | ³ | ¯ | Î | ⌐ | ¬ | ½ | ¼ | ¾ | « | » |
| B | ░ | ▒ | ▓ | │ | ┤ | ┤ | ┤ | ┐ | ┐ | ┤ | ╢ | ╖ | ╕ | ╣ | ┐ | |
| C | └ | ┴ | ┬ | ├ | ─ | ┼ | ├ | ╟ | └ | ┌ | ┴ | ┬ | ├ | ═ | ╬ | ┴ |
| D | ┴ | ┬ | ┬ | └ | └ | ┌ | ┌ | ╫ | ┼ | ┘ | ┌ | ▉ | ▄ | ▌ | ▐ | ▀ |
| E | α | ß | Γ | π | Σ | σ | µ | τ | Φ | Θ | Ω | δ | ∞ | φ | ε | ∩ |
| F | ≡ | ± | ≥ | ≤ | ⌠ | ⌡ | ÷ | ≈ | ° | ∙ | · | √ | ⁿ | ² | ■ | |

## PC858

| 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Ç | ü | é | â | ä | à | å | ç | ê | ë | è | ï | î | ì | Ä | Å |
| 9 | É | æ | Æ | ô | ö | ò | û | ù | ÿ | Ö | Ü | ø | £ | Ø | × | ƒ |
| A | á | í | ó | ú | ñ | Ñ | ª | º | ¿ | ® | ¬ | ½ | ¼ | ¡ | « | » |
| B | ░ | ▒ | ▓ | │ | ┤ | Á | Â | À | © | ╣ | ║ | ╗ | ╝ | ¢ | ¥ | ┐ |
| C | └ | ┴ | ┬ | ├ | ─ | ┼ | ã | Ã | ╚ | ╔ | ╩ | ╦ | ╠ | ═ | ╬ | ¤ |
| D | ð | Ð | Ê | Ë | È | € | Í | Î | Ï | ┘ | ┌ | ▉ | ▄ | ¦ | Ì | ▀ |
| E | Ó | ß | Ô | Ò | õ | Õ | µ | þ | Þ | Ú | Û | Ù | ý | Ý | ¯ | ´ |
| F | - | ± | ‗ | ¾ | ¶ | § | ÷ | ¸ | ° | ¨ | · | ¹ | ³ | ² | ■ | |

# APPENDIXB: International characters

| | Country | 23 | 24 | 40 | 5B | 5C | 5D | 5E | 60 | 7B | 7C | 7D | 7E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | U.S.A | # | $ | @ | [ | \ | ] | ^ | ` | { | \| | } | ~ |
| 1 | France | # | $ | à | ° | ç | § | ^ | ` | é | ù | è | ¨ |
| 2 | Germany | # | $ | § | Ä | Ö | Ü | ^ | ` | ä | ö | ö | ß |
| 3 | U.K. | £ | $ | @ | [ | \ | ] | ^ | ` | { | \| | } | ~ |
| 4 | Denmark I | # | $ | @ | Æ | Ø | Å | ^ | ` | æ | ø | å | ~ |
| 5 | Sweden | # | ¤ | É | Ä | Ö | Å | Ü | é | ä | ö | å | ü |
| 6 | Italy | # | $ | @ | ° | \ | é | ^ | ù | à | ò | è | ì |
| 7 | Spain I | Pt | $ | @ | ¡ | Ñ | ¿ | ^ | ` | ¨ | ñ | } | ~ |
| 8 | Japan | # | $ | @ | [ | ¥ | ] | ^ | ` | { | \| | } | ~ |
| 9 | Norway | # | ¤ | É | Æ | Ø | Å | Ü | é | æ | ø | å | ü |
| 10 | Denmark II | # | $ | É | Æ | Ø | Å | Ü | é | æ | ø | å | ü |
| 11 | Spain II | # | $ | á | ¡ | Ñ | ¿ | é | ` | ì | ñ | ó | ú |
| 12 | Latin America | # | $ | á | ¡ | Ñ | ¿ | é | ü | ì | ñ | ó | ú |
| 13 | Korea | # | $ | @ | [ | ₩ | ] | ^ | ` | { | \| | } | ~ |

# APPENDIXC： Persian characters

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | ٠ | ١ | ٢ | ٣ | ٤ | ٥ | ٦ | ٧ | ٨ | ٩ | | ـ | , | ، | * | ؟ |
| Unicode | 0660 | 0661 | 0662 | 0663 | 0664 | 0665 | 0666 | 0667 | 0668 | 0669 | 0020 | 0640 | 002c | 060c | 066d | 061F |
| 7 | گ | گ | گ | گ | ء | آ | أ | أ | ؤ | ؤ | ئ | ئ | ئ | ئ | ا | ا |
| Unicode | FB92 | FB93 | FB94 | FB95 | FE80 | FE81 | FE83 | FE84 | FE85 | FE86 | FE89 | FE8A | FE8b | FE8C | FE8D | FE8E |
| 8 | ب | ب | بـ | بـ | ة | ة | ت | ت | تـ | تـ | ث | ث | ثـ | ثـ | ج | ج |
| Unicode | FE8F | FE90 | FE91 | FE92 | FE93 | FE94 | FE95 | FE96 | FE97 | FE98 | FE99 | FE9A | FE9B | FE9C | FE9D | FE9E |
| 9 | جـ | جـ | ح | حـ | حـ | حـ | خ | خ | خـ | خـ | د | د | ذ | ذ | ر | ر |
| Unicode | FE9F | FEA0 | FEA1 | FEA2 | FEA3 | FEA4 | FEA5 | FEA6 | FEA7 | FEA8 | FEA9 | FEAA | FEAB | FEAC | FEAD | FEAE |
| A | ز | ز | س | س | سـ | سـ | ش | ش | شـ | شـ | ص | ص | صـ | صـ | ض | ض |
| Unicode | FEAF | FEB0 | FEB1 | FEB2 | FEB3 | FEB4 | FEB5 | FEB6 | FEB7 | FEB8 | FEB9 | FEBA | FEBB | FEBC | FEBD | FEBE |
| B | ضـ | ضـ | ط | طـ | طـ | طـ | ظ | ظ | ظـ | ظـ | ع | ع | عـ | عـ | غ | غ |
| Unicode | FEBF | FEC0 | FEC1 | FEC2 | FEC3 | FEC4 | FEC5 | FEC6 | FEC7 | FEC8 | FEC9 | FECA | FECB | FECC | FECD | FECE |
| C | غـ | غـ | ف | فـ | فـ | فـ | ق | ق | قـ | قـ | ك | ك | كـ | كـ | ل | ل |
| Unicode | FECF | FED0 | FED1 | FED2 | FED3 | FED4 | FED5 | FED6 | FED7 | FED8 | FED9 | FEDA | FEDB | FEDC | FEDD | FEDE |
| D | لـ | لـ | م | م | مـ | مـ | ن | ن | نـ | نـ | ه | ه | هـ | هـ | و | و |
| Unicode | FEDF | FEE0 | FEE1 | FEE2 | FEE3 | FEE4 | FEE5 | FEE6 | FEE7 | FEE8 | FEE9 | FEEA | FEEB | FEEC | FEED | FEEE |
| E | ى | ى | يـ | يـ | لا | لا | پ | پ | پـ | پـ | چ | چ | چـ | چـ | ژ | ژ |
| Unicode | FEEF | FEF0 | FEF3 | FEF4 | FEFB | FEFC | FB56 | FB57 | FB58 | FB59 | FB7A | FB7B | FB7C | FB7D | FB8A | FB8B |
| F | ‾ | _ | ▕ | ▕ | ▕ | _ | ■ | | | | | | | | | |
| Unicode | 00AF | 005F | 2595 | 258F | 2502 | E83A | 2588 | | | | | | | | | |

Value Each Gram

HiWEIGH
Weighing system & solution

Value Each Gram A professional weighing products manufacturer and supplier

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# User Manual

# P58

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