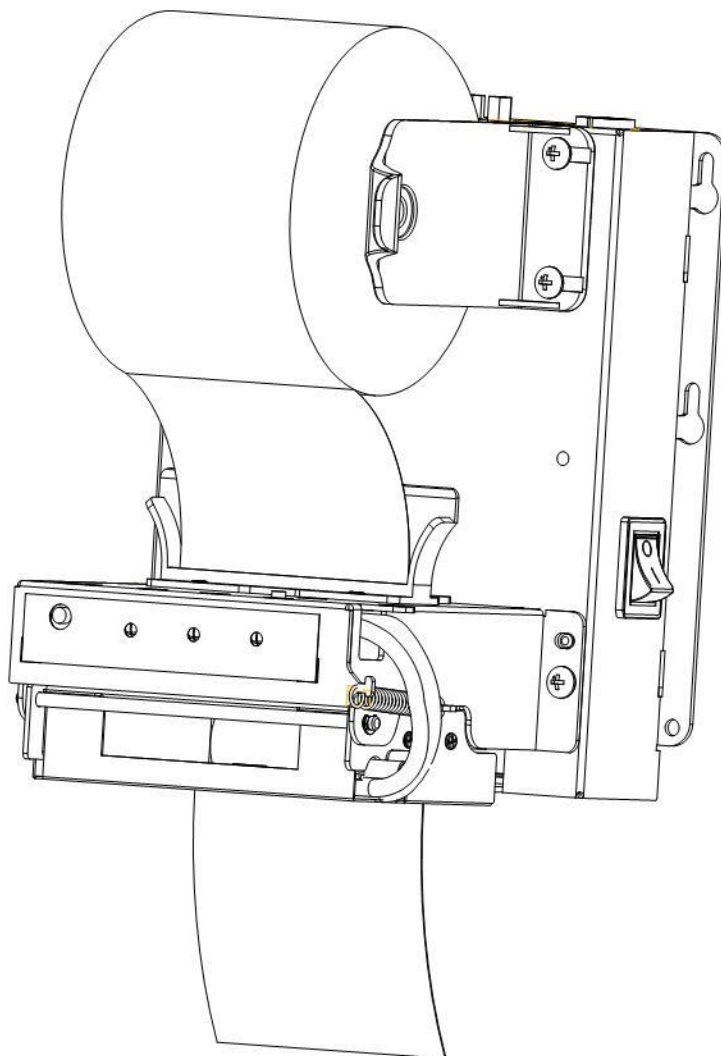




# USER MANUAL

Kiosk Thermal Printer

Model: **WP-K651S**



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Version: 1.01

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## **1. General Description**

### **1.1 Overview**

The WP-K651 Thermal Kiosk Printer is designed for Kiosk uses, panel printer, computer peripheral equipment, and so on.

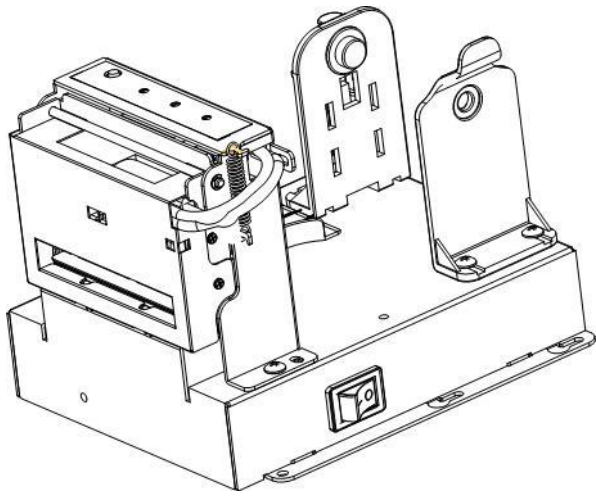
### **1.2 Features**

1. Compact kiosk Thermal printer.
2. Auto loading designed for installing paper easily.
3. Built-in USB and RS-232C.
4. Command protocol is compatible with ESC/POS.
5. Drawer kick-out connector.
6. The resident data buffer has storage capacity of 4K-bytes, enable data to be received while printing.
7. Support download bit image, directly bit image, bar-code and QR code printing.
8. The sensors indicate paper end, paper near end, ticket untaken, cover open, cutter jam and printer-head overheat.

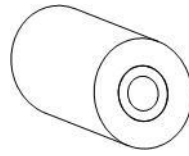
## *WP-K651S Kiosk Thermal Printer*

### 1.3 Unpacking check

WP-K651S Kiosk thermal printer

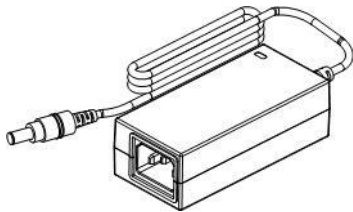


Thermal paper

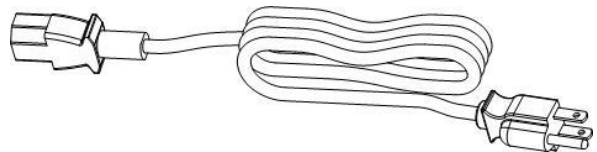


Option

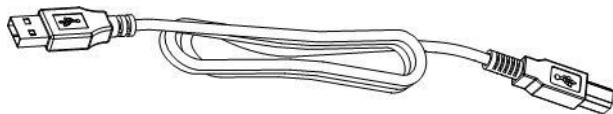
Power supply



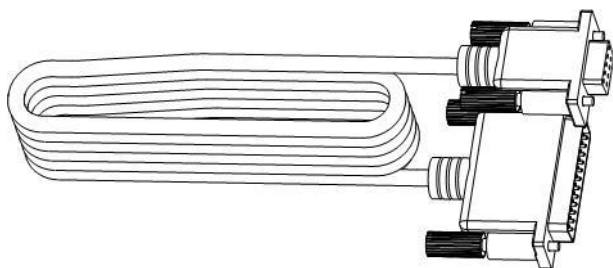
Power cord



USB cable (packed with USB interface version)



RS-232 cable (packed with RS-232 interface version)



## 2. Specifications

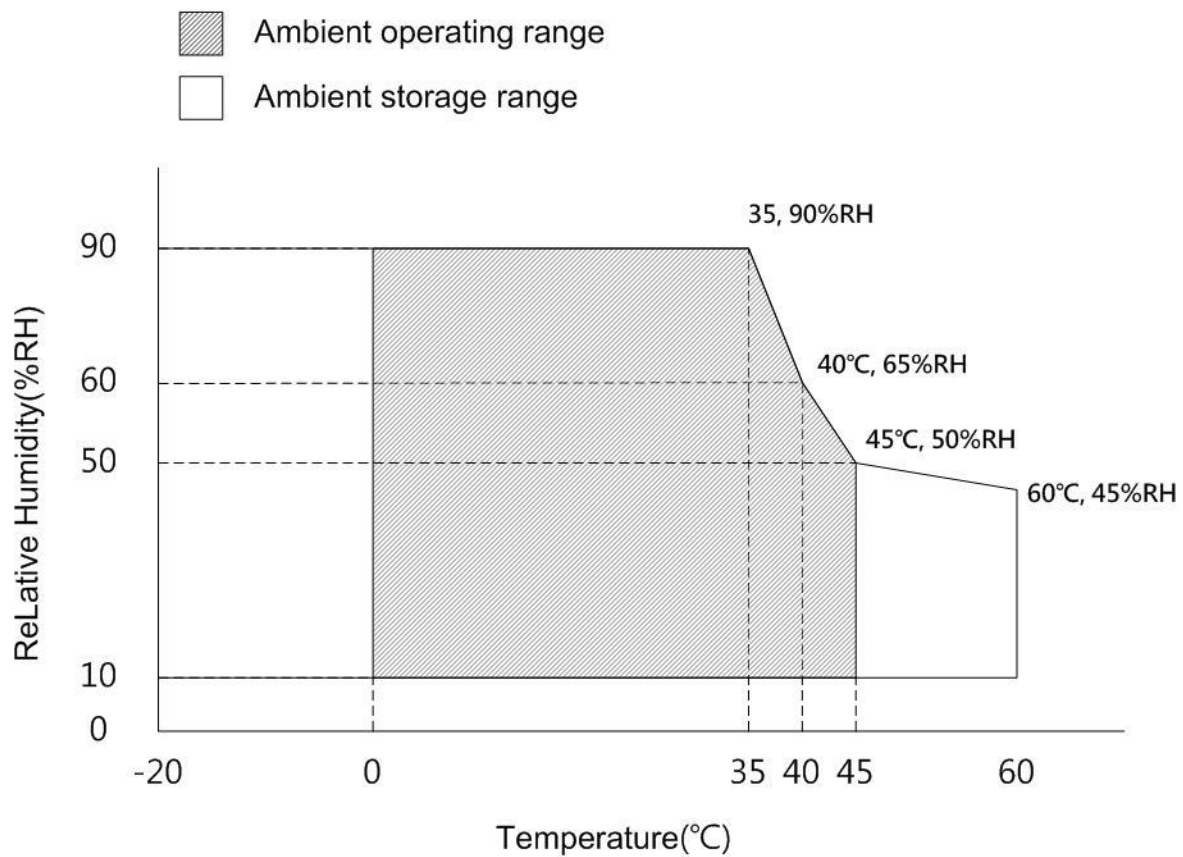
### 2.1 Main Specifications

| Item |                     | Description |                                                                                        |                       |                      |
|------|---------------------|-------------|----------------------------------------------------------------------------------------|-----------------------|----------------------|
| 1    | Printing method     |             | Thermal line                                                                           |                       |                      |
| 2    | Printing speed      |             | Approx. 70 mm/s                                                                        |                       |                      |
| 3    | Command             |             | ESC/POS                                                                                |                       |                      |
| 4    | Driver              |             | Linux, Windows, OPOS, JavaPOS and Android SDK                                          |                       |                      |
| 5    | Paper               |             | Single-ply thermal paper roll                                                          |                       |                      |
| 6    | Paper thickness     |             | 0.05 ~ 0.06 mm                                                                         |                       |                      |
| 7    | Paper roll size     |             | 57.5±0.5 (W) x 80 (Dia.) mm                                                            |                       |                      |
| 8    | Character structure |             | Alphanumeric (Font A)                                                                  | Alphanumeric (Font B) | Kanji                |
|      |                     |             | 12 x 24 dots                                                                           | 9 x 17 dots           | 24 x 24 dots         |
| 9    | Character size      |             | 1.50 x 3.00 mm                                                                         | 1.13 x 2.13 mm        | 3.00 x 3.00 mm       |
| 10   | 58mm columns        |             | 32 columns                                                                             | 42 columns            | 16 columns           |
| 11   | Density             |             | 203dpi                                                                                 |                       |                      |
| 12   | Fonts               |             | Multilingual code page x 46<br>Chinese, Japanese, Thai, Korean, and Unicode            |                       |                      |
| 13   | Bar code            |             | UPC-A, UPC-E, EAN13, EAN8, Code39, Code93, CODABAR, Code128, ITF, QR Code              |                       |                      |
| 14   | Detectors           |             | Paper end, Paper near end, Cover, Cutter jam, Printer head overheat, and Paper untaken |                       |                      |
| 15   | Reliability         | Head        | 50 km or more                                                                          |                       |                      |
|      |                     | Cutter      | 1,000,000 times                                                                        |                       |                      |
| 16   | Memory              | Buffer      | 4K bytes                                                                               |                       |                      |
|      |                     | SRAM        | 128K bytes                                                                             |                       |                      |
|      |                     | Flash       | 1M bytes (NV image)                                                                    |                       |                      |
| 17   | Power supply        |             | +12.0 VDC / 2.5 A                                                                      |                       |                      |
| 18   | Drawer output       |             | 1 drawer kick-out                                                                      |                       |                      |
| 19   | Interface           |             | Built-in USB and RS-232C                                                               |                       |                      |
| 20   | Net weight          |             | 792g                                                                                   |                       |                      |
| 21   | External dimension  |             | 129.3 (W) x 152.6 (D) x 111.3 (H) mm                                                   |                       |                      |
| 22   | Temperature         |             | Operating: 0 ~ 45°C                                                                    |                       | Storage: -20 ~ 60°C  |
| 23   | Humidity            |             | Operating: 10 ~ 90 %RH                                                                 |                       | Storage: 10 ~ 90 %RH |

## WP-K651S Kiosk Thermal Printer

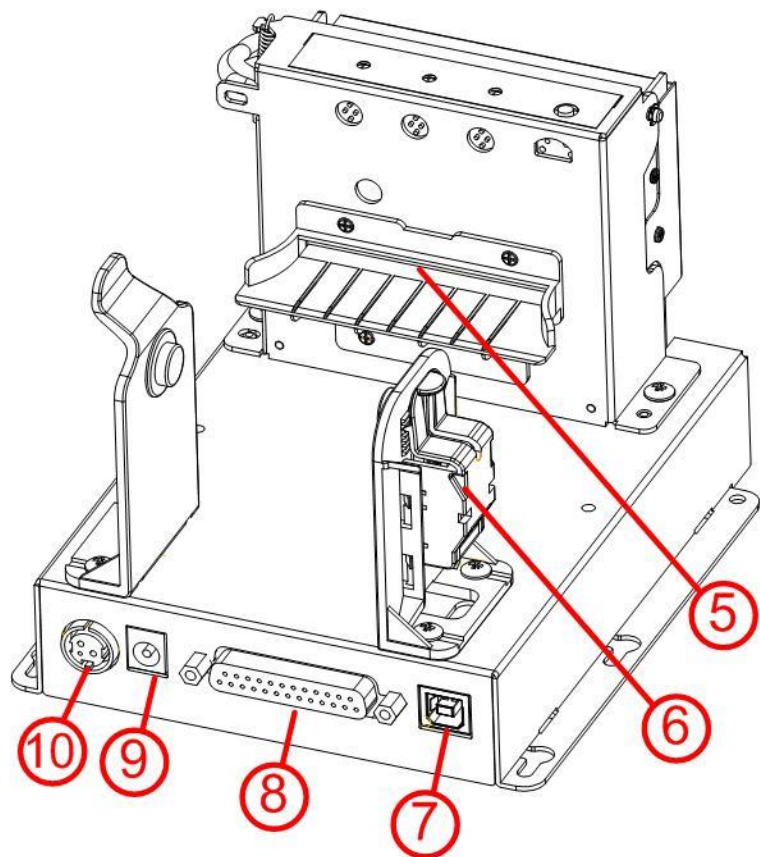
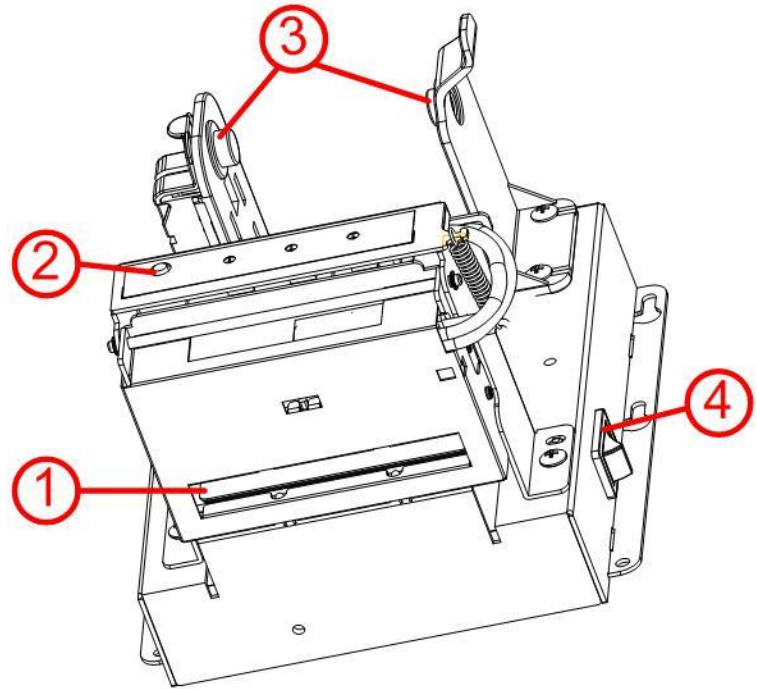
### 2.2 Operating Specifications

| Item                  |                                   | Description                                                                                                             |
|-----------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Temperature /Humidity | Operating                         | 0 to 45°C (32 to 113°F), 10 to 90% RH no condensation allowed. (Refer to ambient operating ranges in the figure below.) |
|                       | Storage<br>(shipped packed state) | -20 to +60°C (-4 to 140°F), 10 to 90% RH (excluding paper)                                                              |



### 3. External Appearance and Descriptions

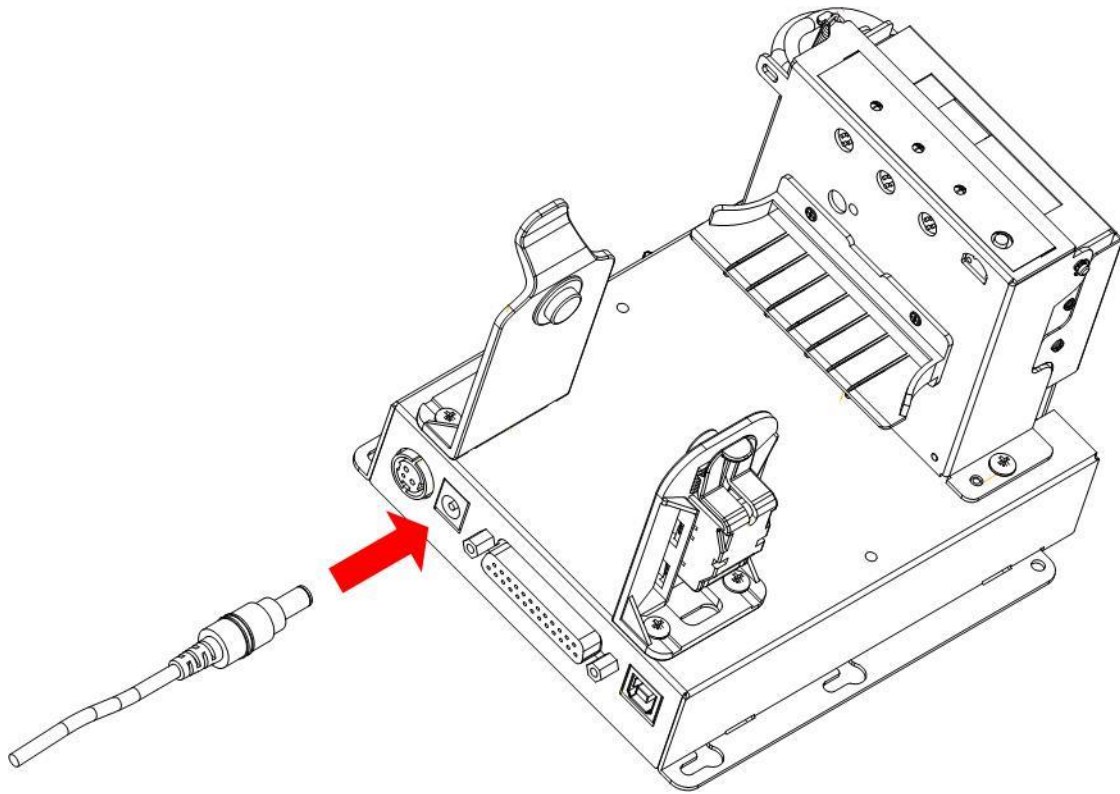
1. Cutter
2. Control panel
3. Paper holder
4. Power ON/OFF
5. Paper in
6. Near end sensor
7. USB Interface
8. RS-232 Interface
9. 12V DC power jack
10. 10V DC power din jack



## 4. Installation

### 4.1 How to Connect Power Adapter

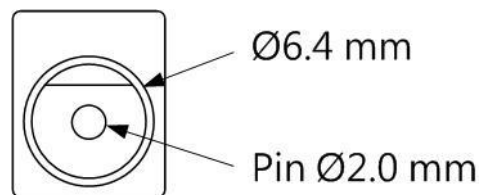
1. Ensure that the power switch is OFF.
2. Plug the power connector into the printer's power connector.
3. Plug the power cord into the outlet, and turn on the power.



4. Connector Specifications shows as below.

Power connector pin-assignment

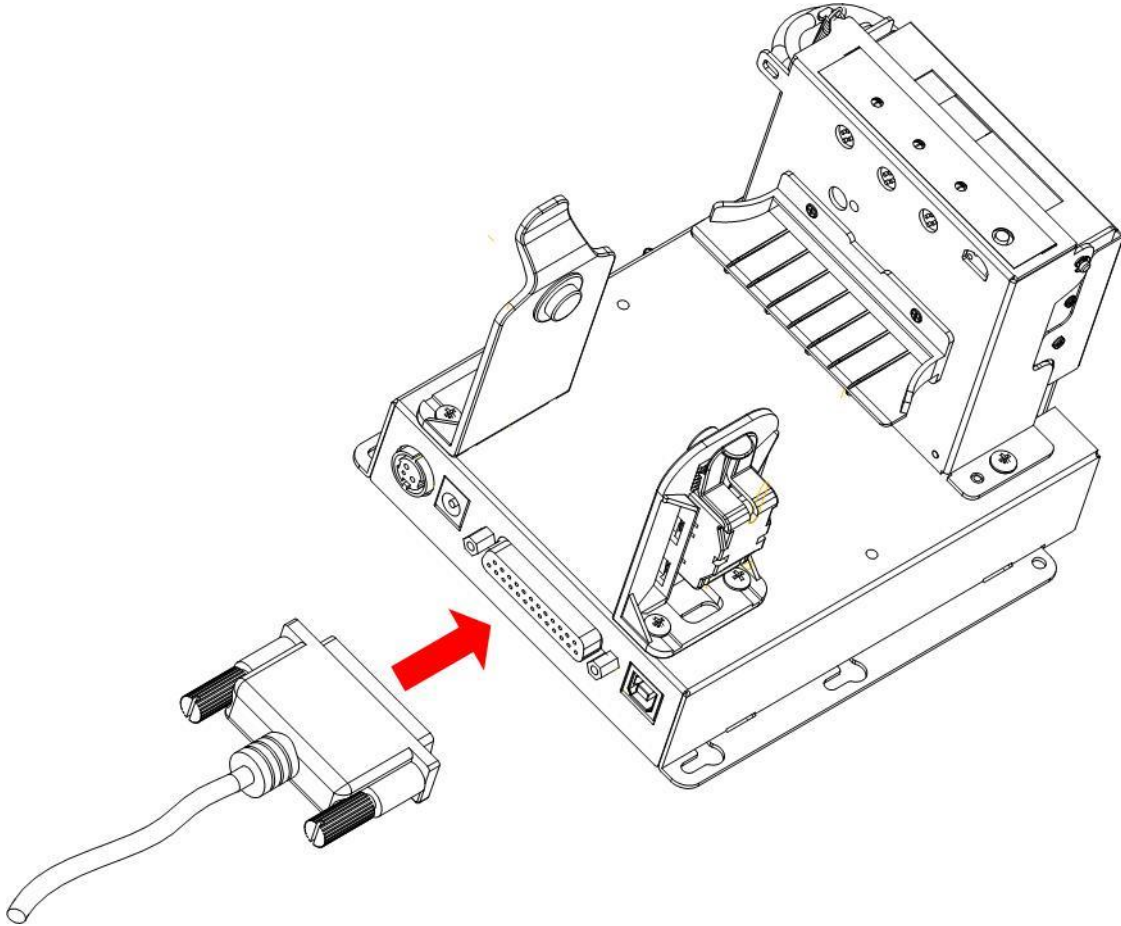
| Pin Number | Signal Name |
|------------|-------------|
| +          | +12VDC      |
| -          | Frame GND   |



## *WP-K651S Kiosk Thermal Printer*

### **4.2 How to Connect RS-232C Connector**

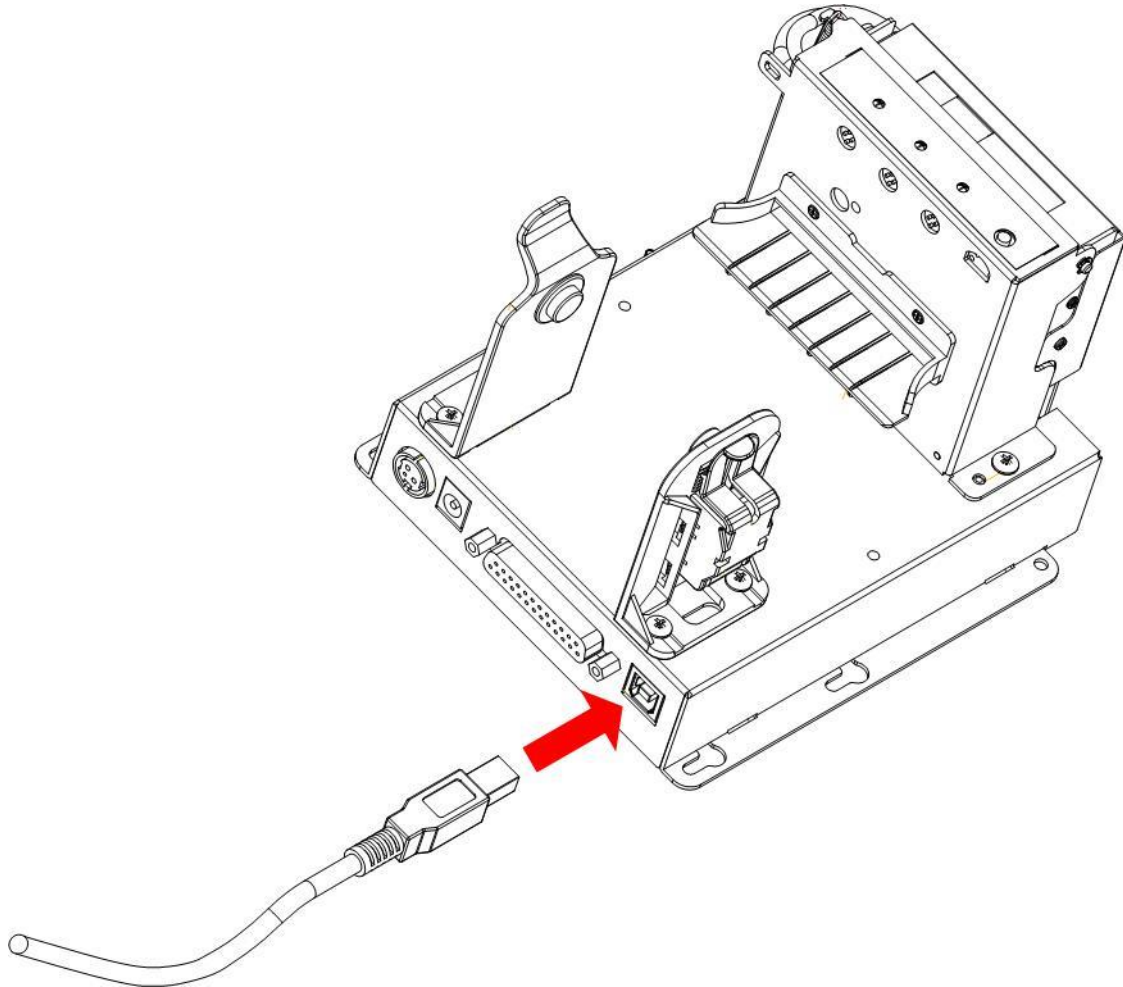
1. Ensure that the power is OFF.
2. Plug the DB25 connector into the printer's connector.



## *WP-K651S Kiosk Thermal Printer*

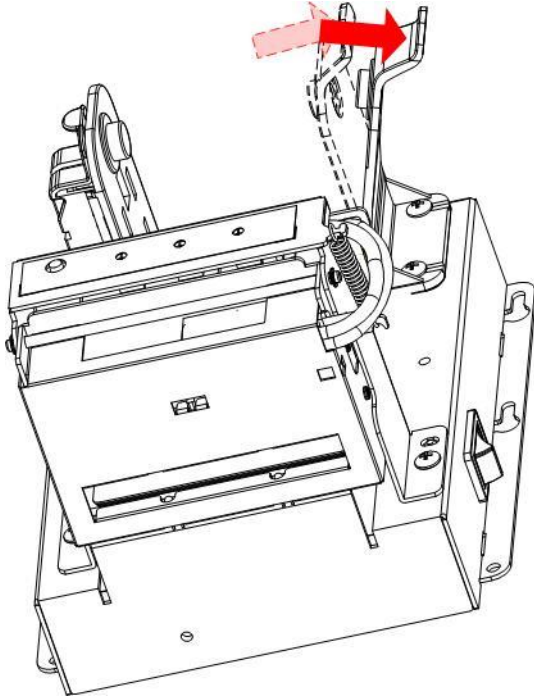
### **4.3 How to Connect USB Connector**

1. Ensure that the power is OFF.
2. Plug B type USB into the USB connector.

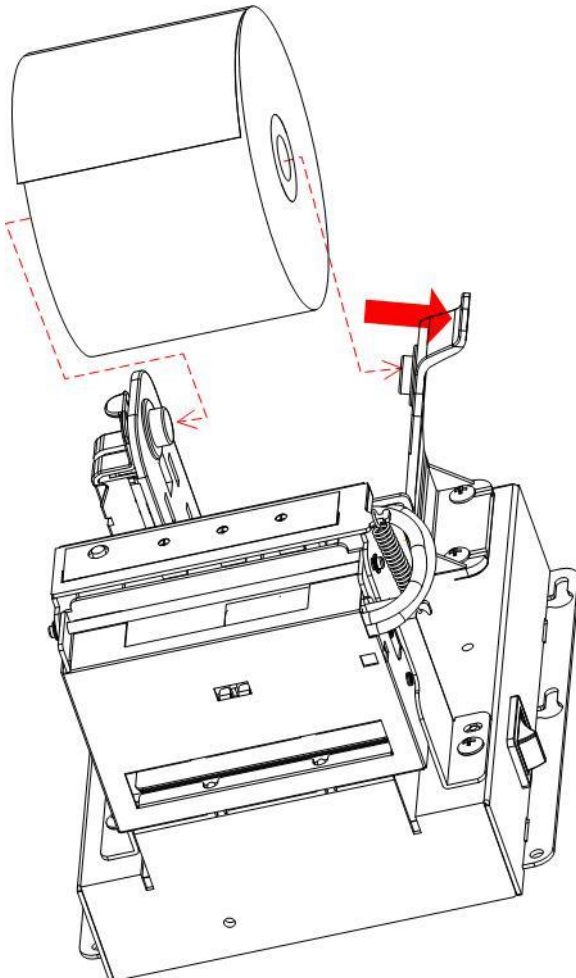


#### 4.4 How to Load Thermal Paper

1. Pull the support of the printer.



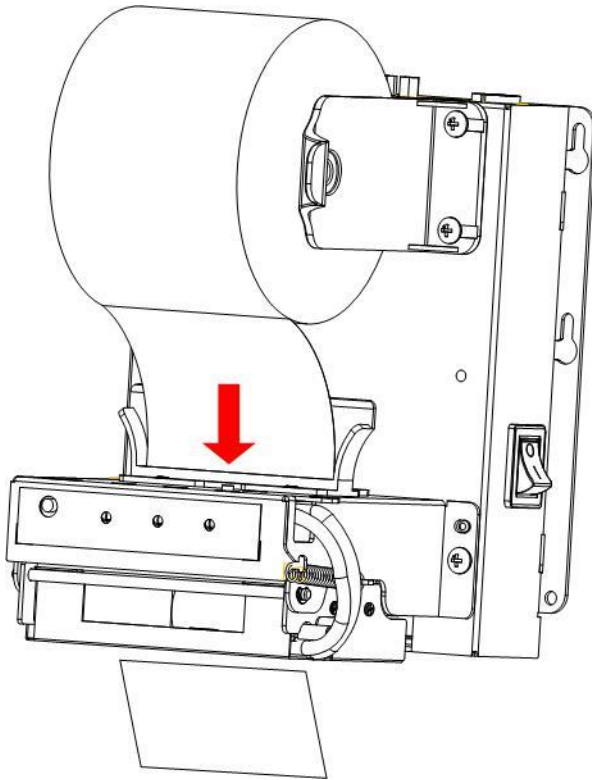
2. Insert the paper roll as picture below shown.



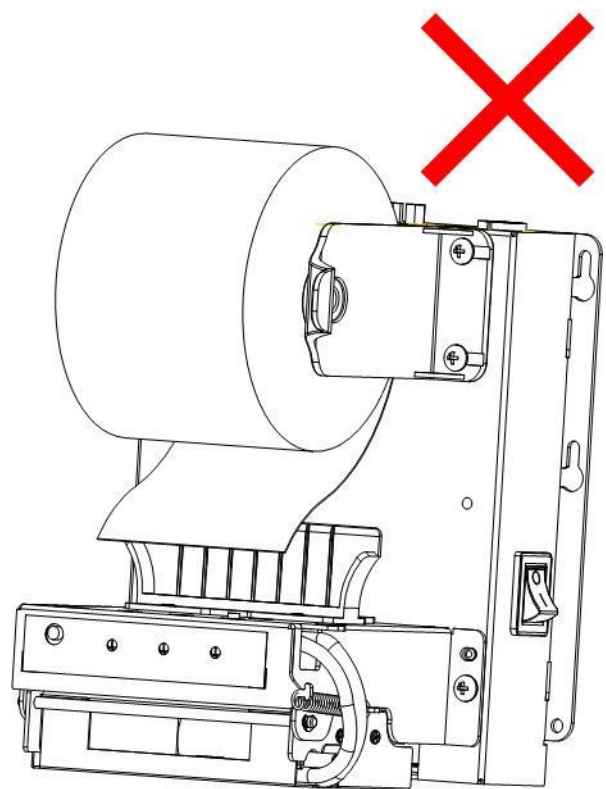
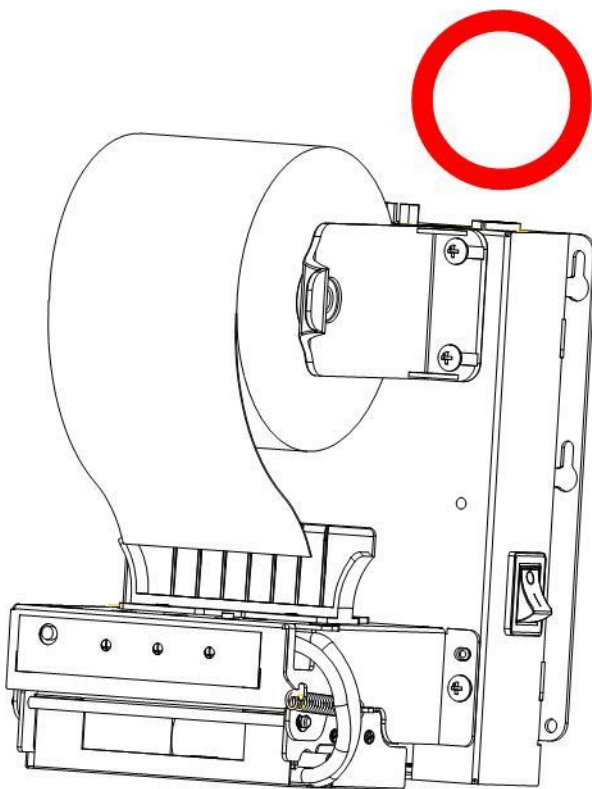
- \* Roll diameter max. 80mm
- \* Paper thickness is 0.05-0.06mm
- \* Paper width range is from  $57 \pm 0.5$ mm

## *WP-K651S Kiosk Thermal Printer*

3. The printer will detect paper feed automatically.



4. Load the roll of thermal paper at correct direction.



## 5. Control Panel

### 5.1 Basic Operation



1. Feed button.

When this push-button switch is pressed once briefly (for 0.5 seconds or less), the paper is fed forward by one line. When it is held down continuously, the paper is fed forward continuously until the switch is released.

2. Power LED indicator (Green LED)

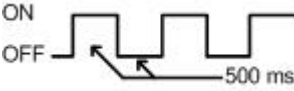
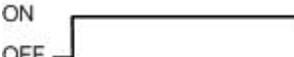
The power LED remains lighting indicates the power supply well connected.

3. Error LED indicator (Red LED)

When printer cover is not properly closed or paper jam happen on cutter part or paper is not put properly, the error indicator lamp (red LED) will light.

4. Paper LED indicator (Yellow LED)

- The indicator remains lighting when paper near end or paper end.
- The indicator keeps sparkling when printer process in self-test or hexadecimal dump mode.
- The flash timing chart shows as below.

| Printer status | Blinking Pattern                                                                     |
|----------------|--------------------------------------------------------------------------------------|
| Self-Testing   |  |
| Paper end      |  |

## *WP-K651S Kiosk Thermal Printer*

### 5. Beep reminder

The number of beep sounds reflects the status of the printer as the following form.

| Number of beeps | Printer status |
|-----------------|----------------|
| 2 beeps         | Cover open     |
| 3 beeps         | Paper end      |
| 4 beeps         | Cutter jam     |

## 5.2 Self-printing mode

Turn the power on while holding the feed button depressed. Self-printing receipt will be printed out (Ref. the right receipt).

Self-printing will be performed according to the VER. NO., printer settings and characters etc (Ref. the right receipt). When the feed button is pressed again after self-printing stopped, the printer will print self-printing receipt again.

To turn off this mode, it is necessary to turn off the printer power completely.

```
*** WP-K651 ***  
F/W Version: 1.00a  
H/W Version: 1.0  
Ext. Flash: 4M Bytes  
Printing Speed: 70mm/s  
Command: ESC/POS  
Error Alarm: On  
Print Energized: Level 0  
Default Code Page: 0  
  
Interface: USB, RS-232  
9600, N, 8, 1, DTR/DSR  
  
Font: USA  
  
!"#$%&'()*+,-./0123456789:;<=>?  
@ABCDEFGHIJKLMN O PQRSTU VWXYZ[\]^_  
'`abcdefghijklmnopqrstuvwxyz{|}~  
  
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHI  
JKLMN O PQRSTU VWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz  
{|}~  
  
-----  
-  
  
*** Test Completely ***
```

## 5.3 Hexadecimal dump mode

Open printer cover. Turn on power while holding the feed button depressed. Then close printer cover. The printer will be set to hexadecimal mode.

Each of the signals sent from the computer to the printer will be printed out in hexadecimal code. This function allows user to check control code.

```
=== Hexadecimal Dump ===  
  
31 32 33 34 35 36 37 1234567  
38 39 30 41 42 43 44 890ABCD  
45 46 47 48 49 4A 4B EFGHIJK  
4C 4D 4E 4F 50 51 52 LMNOPQR  
53 54 55 56 57 58 59 STUVWXY  
5A Z
```

To turn off the mode, it is necessary to turn off the printer completely.

## 6. Interface Specifications

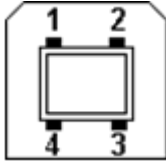
### 6.1 USB interface specifications

#### 1. Specifications

- USB B type/ female
- USB specification 2.0 complaint, full speed mode (12 Mbps)

#### 2. Pin assignment

| No. | Signal Name | Function description |
|-----|-------------|----------------------|
| 1   | 5VDC        | Power input          |
| 2   | USBD-       | USB data signal -    |
| 3   | USBD+       | USB data signal +    |
| 4   | GND         | Signal ground        |



## 6.2 Serial Interface Specifications

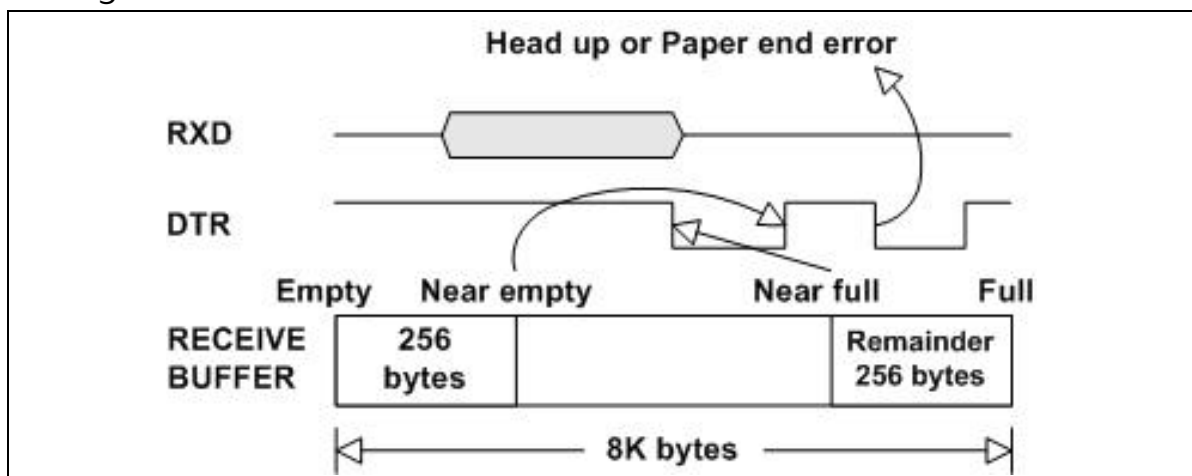
### 1. Specifications (Conform to RS-232C)

|                      |                         |
|----------------------|-------------------------|
| Data transmission:   | Serial                  |
| Synchronizing system | Asynchronous system     |
| Handshaking          | DTR/DSR control         |
| Baud rate            | 9600,19200,38400,115200 |
| Data length          | 7 or 8 bit length       |
| Parity               | None, even or odd       |

### 2. Pin assignment

| No. | Signal Name | I/O    | Function description |
|-----|-------------|--------|----------------------|
| 2   | TXD         | Output | Transmit data        |
| 3   | RXD         | Input  | Receive data         |
| 6   | DSR         | Input  | Data set ready       |
| 20  | DTR         | Output | Data terminal ready  |
| 7   | GND         | -      | Signal ground        |

### 3. Timing Chart



## 7. Commands

### 7.1 Commands Description

|            |                |
|------------|----------------|
| Command    | HT             |
| Code (Hex) | 09             |
| Name       | Horizontal tab |

|            |                     |
|------------|---------------------|
| Command    | LF                  |
| Code (Hex) | 0A                  |
| Name       | Print and line feed |

|            |                                                |
|------------|------------------------------------------------|
| Command    | FF                                             |
| Code (Hex) | 0C                                             |
| Name       | Print and return to standard mode in page mode |

|            |                           |
|------------|---------------------------|
| Command    | CR                        |
| Code (Hex) | 0D                        |
| Name       | Print and carriage return |

|            |                                |
|------------|--------------------------------|
| Command    | CAN                            |
| Code (Hex) | 18                             |
| Name       | Cancel print data on page mode |

|            |                               |
|------------|-------------------------------|
| Command    | DLE EOT n                     |
| Code (Hex) | 10 04 n                       |
| Name       | Real-time status transmission |

|            |                              |
|------------|------------------------------|
| Command    | DLE ENQ n                    |
| Code (Hex) | 10 05 n                      |
| Name       | Real-time request to printer |

|            |                             |
|------------|-----------------------------|
| Command    | DLE DC4 n m t               |
| Code (Hex) | 10 14 n m t                 |
| Name       | Generate pulse at real-time |

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|            |                         |
|------------|-------------------------|
| Command    | ESC    FF               |
| Code (Hex) | 1B    0C                |
| Name       | Print data in page mode |

|            |                                  |
|------------|----------------------------------|
| Command    | ESC    SP    n                   |
| Code (Hex) | 1B    20    n                    |
| Name       | Set right-side character spacing |

|            |                      |
|------------|----------------------|
| Command    | ESC    !    n        |
| Code (Hex) | 1B    21    n        |
| Name       | Select print mode(s) |

|            |                             |
|------------|-----------------------------|
| Command    | ESC    \$    nL    nH       |
| Code (Hex) | 1B    24    nL    nH        |
| Name       | Set absolute print position |

|            |                                          |
|------------|------------------------------------------|
| Command    | ESC    %    n                            |
| Code (Hex) | 1B    25    n                            |
| Name       | Select/cancel user-defined character set |

|            |                                       |
|------------|---------------------------------------|
| Command    | ESC    *    m    nL    nH    d1... dk |
| Code (Hex) | 1B    2A    m    nL    nH    d1... dk |
| Name       | Select bit-image mode                 |

|            |                            |
|------------|----------------------------|
| Command    | ESC    -    n              |
| Code (Hex) | 1B    2D    n              |
| Name       | Turn underline mode on/off |

|            |                             |
|------------|-----------------------------|
| Command    | ESC    2                    |
| Code (Hex) | 1B    32                    |
| Name       | Select default line spacing |

|            |                  |
|------------|------------------|
| Command    | ESC    3    n    |
| Code (Hex) | 1B    33    n    |
| Name       | Set line spacing |

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|            |                                |
|------------|--------------------------------|
| Command    | ESC   ?   n                    |
| Code (Hex) | 1B   3F   n                    |
| Name       | Cancel user-defined characters |

|            |                    |
|------------|--------------------|
| Command    | ESC   @            |
| Code (Hex) | 1B   40            |
| Name       | Initialize printer |

|            |                              |
|------------|------------------------------|
| Command    | ESC   D   n1... nk   NUL     |
| Code (Hex) | 1B   44   n1... nk   00      |
| Name       | Set Horizontal tab positions |

|            |                             |
|------------|-----------------------------|
| Command    | ESC   E   n                 |
| Code (Hex) | 1B   45   n                 |
| Name       | Turn emphasized mode on/off |

|            |                                |
|------------|--------------------------------|
| Command    | ESC   G   n                    |
| Code (Hex) | 1B   47   n                    |
| Name       | Turn on/off double-strike mode |

|            |                      |
|------------|----------------------|
| Command    | ESC   J   n          |
| Code (Hex) | 1B   4A   n          |
| Name       | Print and feed paper |

|            |                  |
|------------|------------------|
| Command    | ESC   L          |
| Code (Hex) | 1B   4C          |
| Name       | Select page mode |

|            |                       |
|------------|-----------------------|
| Command    | ESC   M   n           |
| Code (Hex) | 1B   4D   n           |
| Name       | Select character font |

|            |                                       |
|------------|---------------------------------------|
| Command    | ESC   R   n                           |
| Code (Hex) | 1B   52   n                           |
| Name       | Select an international character set |

## *WP-K651S Kiosk Thermal Printer*

|            |                                |    |    |    |    |    |     |     |     |     |
|------------|--------------------------------|----|----|----|----|----|-----|-----|-----|-----|
| Command    | ESC                            | W  | xL | xH | yL | yH | dxL | dxH | dyL | dyH |
| Code (Hex) | 1B                             | 57 | xL | xH | yL | yH | dxL | dxH | dyL | dyH |
| Name       | Set printing area in page mode |    |    |    |    |    |     |     |     |     |

|            |                             |    |    |    |
|------------|-----------------------------|----|----|----|
| Command    | ESC                         | \  | nL | nH |
| Code (Hex) | 1B                          | 5C | nL | nH |
| Name       | Set relative print position |    |    |    |

|            |                      |    |   |
|------------|----------------------|----|---|
| Command    | ESC                  | a  | n |
| Code (Hex) | 1B                   | 61 | n |
| Name       | Select justification |    |   |

|            |                        |    |   |
|------------|------------------------|----|---|
| Command    | ESC                    | d  | n |
| Code (Hex) | 1B                     | 64 | n |
| Name       | Print and feed n lines |    |   |

|            |                |    |   |    |    |
|------------|----------------|----|---|----|----|
| Command    | ESC            | p  | m | t1 | t2 |
| Code (Hex) | 1B             | 70 | m | t1 | t2 |
| Name       | Generate pulse |    |   |    |    |

|            |                             |    |   |
|------------|-----------------------------|----|---|
| Command    | ESC                         | t  | n |
| Code (Hex) | 1B                          | 74 | n |
| Name       | Select character code table |    |   |

|            |                                        |    |   |
|------------|----------------------------------------|----|---|
| Command    | ESC                                    | {  | n |
| Code (Hex) | 1B                                     | 7B | n |
| Name       | Turns on/off upside-down printing mode |    |   |

|            |                    |    |   |   |
|------------|--------------------|----|---|---|
| Command    | FS                 | p  | n | m |
| Code (Hex) | 1C                 | 70 | n | m |
| Name       | Print NV bit image |    |   |   |

|            |                       |    |   |
|------------|-----------------------|----|---|
| Command    | GS                    | !  | n |
| Code (Hex) | 1D                    | 21 | n |
| Name       | Select character size |    |   |

## *WP-K651S Kiosk Thermal Printer*

|            |                                                   |    |    |    |
|------------|---------------------------------------------------|----|----|----|
| Command    | GS                                                | \$ | nL | nH |
| Code (Hex) | 1D                                                | 24 | nL | nH |
| Name       | Set absolute vertical print position in page mode |    |    |    |

|            |                             |    |   |   |      |          |
|------------|-----------------------------|----|---|---|------|----------|
| Command    | GS                          | *  | x | y | d1.. | d(x*y*8) |
| Code (Hex) | 1D                          | 2A | x | y | d1.. | d(x*y*8) |
| Name       | Define downloaded bit image |    |   |   |      |          |

|            |                    |    |    |    |    |   |   |
|------------|--------------------|----|----|----|----|---|---|
| Command    | GS                 | (  | A  | pL | pH | n | m |
| Code (Hex) | 1D                 | 28 | 41 | pL | pH | n | m |
| Name       | Execute test print |    |    |    |    |   |   |

|            |                            |    |   |
|------------|----------------------------|----|---|
| Command    | GS                         | /  | m |
| Code (Hex) | 1D                         | 2F | m |
| Name       | Print downloaded bit image |    |   |

|            |             |    |   |
|------------|-------------|----|---|
| Command    | GS          | B  | n |
| Code (Hex) | 1D          | 42 | n |
| Name       | 選用/取消黑底白字模式 |    |   |

|            |                                             |    |   |
|------------|---------------------------------------------|----|---|
| Command    | GS                                          | H  | n |
| Code (Hex) | 1D                                          | 48 | n |
| Name       | Select printing position for HRI characters |    |   |

|            |                     |    |   |
|------------|---------------------|----|---|
| Command    | GS                  | I  | n |
| Code (Hex) | 1D                  | 49 | n |
| Name       | Transmit printer ID |    |   |

|            |                 |    |    |    |
|------------|-----------------|----|----|----|
| Command    | GS              | L  | nL | nH |
| Code (Hex) | 1D              | 4C | nL | nH |
| Name       | Set left margin |    |    |    |

|            |                                          |    |     |
|------------|------------------------------------------|----|-----|
| Command    | GS                                       | P  | x y |
| Code (Hex) | 1D                                       | 50 | x y |
| Name       | Set horizontal and vertical motion units |    |     |

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|            |                         |    |    |    |
|------------|-------------------------|----|----|----|
| Command    | GS                      | W  | nL | nH |
| Code (Hex) | 1D                      | 57 | nL | nH |
| Name       | Set printing area width |    |    |    |

|            |                                                   |    |    |    |
|------------|---------------------------------------------------|----|----|----|
| Command    | GS                                                | \  | nL | nH |
| Code (Hex) | 1D                                                | 5C | nL | nH |
| Name       | Set relative vertical print position in page mode |    |    |    |

|            |                                           |    |   |
|------------|-------------------------------------------|----|---|
| Command    | GS                                        | a  | n |
| Code (Hex) | 1D                                        | 61 | n |
| Name       | Enable/disable automatic status back(ASB) |    |   |

|            |                                |    |   |
|------------|--------------------------------|----|---|
| Command    | GS                             | f  | n |
| Code (Hex) | 1D                             | 66 | n |
| Name       | Select font for Human Readable |    |   |

|            |                        |    |   |
|------------|------------------------|----|---|
| Command    | GS                     | h  | n |
| Code (Hex) | 1D                     | 68 | n |
| Name       | Select bar code height |    |   |

|            |                |    |   |         |     |
|------------|----------------|----|---|---------|-----|
| Command    | GS             | k  | m | d1...dk | NUL |
| Code (Hex) | 1D             | 6B | m | d1...dk | 00  |
| Name       | Print bar code |    |   |         |     |

|            |                |    |   |   |         |
|------------|----------------|----|---|---|---------|
| Command    | GS             | k  | m | n | d1...dn |
| Code (Hex) | 1D             | 6B | m | n | d1...dn |
| Name       | Print bar code |    |   |   |         |

|            |                 |    |   |
|------------|-----------------|----|---|
| Command    | GS              | r  | n |
| Code (Hex) | 1D              | 72 | n |
| Name       | Transmit status |    |   |

|            |                        |    |    |   |    |    |    |    |         |
|------------|------------------------|----|----|---|----|----|----|----|---------|
| Command    | GS                     | v  | 0  | m | xL | xH | yL | yH | d1...dk |
| Code (Hex) | 1D                     | 76 | 30 | m | xL | xH | yL | yH | d1...dk |
| Name       | Print raster bit image |    |    |   |    |    |    |    |         |

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|            |                    |
|------------|--------------------|
| Command    | GS    w    n       |
| Code (Hex) | 1D   77   n        |
| Name       | Set bar code width |

|            |                                        |
|------------|----------------------------------------|
| Command    | FS    !    n                           |
| Code (Hex) | 1C   21   n                            |
| Name       | Set print mode(s) for Kanji characters |

|            |                             |
|------------|-----------------------------|
| Command    | FS    &                     |
| Code (Hex) | 1C   26                     |
| Name       | Select Kanji character mode |

|            |                                                 |
|------------|-------------------------------------------------|
| Command    | FS    -    n                                    |
| Code (Hex) | 1C   2D   n                                     |
| Name       | Turn underline mode on/off for Kanji characters |

|            |                             |
|------------|-----------------------------|
| Command    | FS    .                     |
| Code (Hex) | 1C   2E                     |
| Name       | Cancel Kanji character mode |

|            |                                    |
|------------|------------------------------------|
| Command    | FS    C    n                       |
| Code (Hex) | 1C   43   n                        |
| Name       | Select Kanji character code system |

|            |                                                  |
|------------|--------------------------------------------------|
| Command    | FS    S    n1    n2                              |
| Code (Hex) | 1C   53   n1    n2                               |
| Name       | Set left- and right-side Kanji character spacing |

|            |                                                      |
|------------|------------------------------------------------------|
| Command    | FS    W    n                                         |
| Code (Hex) | 1C   57   n                                          |
| Name       | Turn quadruple-size mode on/off for Kanji characters |

|            |                                                       |
|------------|-------------------------------------------------------|
| Command    | FS    q    n    [xL xH yL yH d1...dk]1...[xL xH yL yH |
| Code (Hex) | 1C   71   n    [xL xH yL yH d1...dk]1...[xL xH yL yH  |
| Name       | Define NV bit image                                   |

## 7.2 Real-Time Status Transmission

### 1. Command Format

|         |     |     |   |
|---------|-----|-----|---|
| ASCII   | DLE | EOT | n |
| Hex     | 10  | 04  | n |
| Decimal | 16  | 4   | n |

### 2. Command Description

Real time status transmission command "n" is described as follow.

| n | Function                               |
|---|----------------------------------------|
| 1 | Transmit printer status                |
| 2 | Transmit offline status                |
| 3 | Transmit error status                  |
| 4 | Transmit roll paper sensor status      |
| 5 | Transmit paper taken out sensor status |

### 3. Transmit printer status

Transmit printer status (n = 1) is described as follow

| Bit | Bin. | Hex. | Dec. | Status                                           |
|-----|------|------|------|--------------------------------------------------|
| 0   | 0    | 00   | 0    | Not used. Fixed to Off.                          |
| 1   | 1    | 02   | 2    | Not used. Fixed to On.                           |
| 2   | 0    | 00   | 0    | Drawer kick-out connector pin 3 is LOW.          |
|     | 1    | 04   | 4    | Drawer kick-out connector pin 3 is HIGH.         |
| 3   | 0    | 00   | 0    | Online.                                          |
|     | 1    | 08   | 8    | Offline.                                         |
| 4   | 1    | 10   | 16   | Not used. Fixed to On.                           |
| 5   | 0    | 00   | 0    | Not waiting for online recovery.                 |
|     | 1    | 20   | 32   | Waiting for online recovery.                     |
| 6   | 0    | 00   | 0    | Paper is not being fed by the paper feed button. |
|     | 1    | 40   | 64   | Paper is being fed by the paper feed button.     |
| 7   | 0    | 00   | 0    | Not used. Fixed to Off.                          |

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### 4. Transmit offline status

Transmit offline status (n = 2) is described as follow

| Bit | Bin. | Hex. | Dec. | Status                                           |
|-----|------|------|------|--------------------------------------------------|
| 0   | 0    | 00   | 0    | Not used. Fixed to Off.                          |
| 1   | 1    | 02   | 2    | Not used. Fixed to On.                           |
| 2   | 0    | 00   | 0    | Cover is closed.                                 |
|     | 1    | 04   | 4    | Cover is open.                                   |
| 3   | 0    | 00   | 0    | Paper is not being fed by the paper feed button. |
|     | 1    | 08   | 8    | Paper is being fed by the paper feed button.     |
| 4   | 1    | 10   | 16   | Not used. Fixed to On.                           |
| 5   | 0    | 00   | 0    | No paper-end stop.                               |
|     | 1    | 20   | 32   | Printing stops due to a paper-end.               |
| 6   | 0    | 00   | 0    | No error.                                        |
|     | 1    | 40   | 64   | Error occurred.                                  |
| 7   | 0    | 00   | 0    | Not used. Fixed to Off.                          |

### 5. Transmit error status

Transmit error status (n = 3) is described as follow

| Bit | Bin. | Hex. | Dec. | Status                           |
|-----|------|------|------|----------------------------------|
| 0   | 0    | 00   | 0    | Not used. Fixed to Off.          |
| 1   | 1    | 02   | 2    | Not used. Fixed to On.           |
| 2   | 0    | 00   | 0    | No recoverable error.            |
|     | 1    | 04   | 4    | Recoverable error occurred.      |
| 3   | 0    | 00   | 0    | No auto-cutter error.            |
|     | 1    | 08   | 8    | Auto-cutter error occurred.      |
| 4   | 1    | 10   | 16   | Not used. Fixed to On.           |
| 5   | 0    | 00   | 0    | No unrecoverable error.          |
|     | 1    | 20   | 32   | Unrecoverable error occurred.    |
| 6   | 0    | 00   | 0    | No auto-recoverable error.       |
|     | 1    | 40   | 64   | Auto-recoverable error occurred. |
| 7   | 0    | 00   | 0    | Not used. Fixed to Off.          |

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### 6. Transmit roll paper sensor status

Transmit roll paper sensor status (n = 4) is described as follow

| Bit | Bin. | Hex. | Dec. | Status                                      |
|-----|------|------|------|---------------------------------------------|
| 0   | 0    | 00   | 0    | Not used. Fixed to Off.                     |
| 1   | 1    | 02   | 2    | Not used. Fixed to On.                      |
| 2,3 | 00   | 00   | 0    | Roll paper near-end sensor: paper adequate. |
|     | 11   | 0C   | 12   | Roll paper near-end sensor: paper near end. |
| 4   | 1    | 10   | 16   | Not used. Fixed to On.                      |
| 5,6 | 00   | 00   | 0    | Roll paper end sensor: paper present.       |
|     | 11   | 60   | 96   | Roll paper end sensor: paper not present.   |
| 7   | 0    | 00   | 0    | Not used. Fixed to Off.                     |

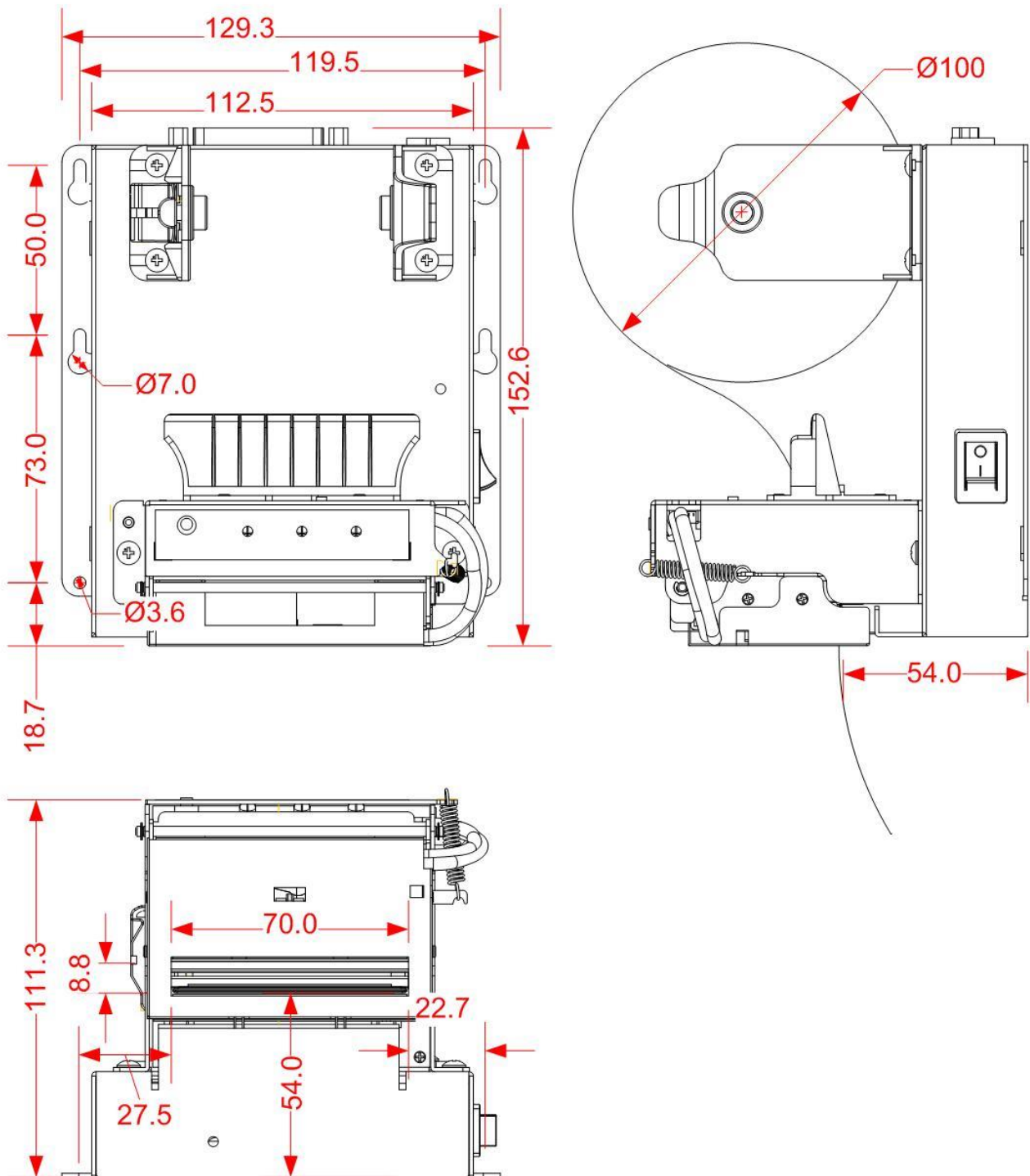
### 7. Transmit paper taken out sensor status

Transmit paper taken out sensor status (n = 5) is described as follow

| Bit | Bin. | Hex. | Dec. | Status                                   |
|-----|------|------|------|------------------------------------------|
| 0   | 0    | 00   | 0    | Not used. Fixed to Off.                  |
| 1   | 1    | 02   | 2    | Not used. Fixed to On.                   |
| 2   | 0    | 00   | 0    | Not used. Fixed to Off.                  |
| 3   | 0    | 00   | 0    | Paper taken out sensor: paper taken out. |
|     | 1    | 08   | 8    | Paper taken out sensor: paper exist.     |
| 4   | 1    | 10   | 16   | Not used. Fixed to On.                   |
| 5   | 0    | 00   | 0    | Not used. Fixed to Off.                  |
| 6   | 0    | 00   | 0    | Not used. Fixed to Off.                  |
| 7   | 0    | 00   | 0    | Not used. Fixed to Off.                  |

## WP-K651S Kiosk Thermal Printer

### 8. External Dimensions



Unit: mm

## Appendix A : Character Code Tables

### A.1 International Character sets

The parameter of international Character set control by command “ESC R n”

| n  | Country       | ASCII code (Hex) |    |    |    |    |    |    |    |    |    |    |    |
|----|---------------|------------------|----|----|----|----|----|----|----|----|----|----|----|
|    |               | 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  | ü  | β  |
| 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               | \$ | @  | ı  | 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  | ı  | Ñ  | ¿  | é  | `  | í  | ñ  | ó  | ú  |
| 12 | Latin America | #                | \$ | á  | ı  | Ñ  | ¿  | é  | ü  | í  | ñ  | ó  | ú  |
| 13 | Korea         | #                | \$ | @  | [  | ₩  | ]  | ^  | `  | {  |    | }  | ~  |

### A.2 Characters: 00H to 7FH

|    | _0  | _1  | _2 | _3   | _4  | _5  | _6  | _7 | _8  | _9 | _A | _B  | _C | _D | _E | _F |
|----|-----|-----|----|------|-----|-----|-----|----|-----|----|----|-----|----|----|----|----|
| 0_ | NUL |     |    |      | EOT | ENQ | ACK |    |     | HT | LF |     | FF | CR |    |    |
| 1_ | DLE | XON |    | XOFF | DC4 | NAK |     |    | CAN |    |    | ESC | FS | GS | RS | US |
| 2_ | SP  | !   | “  | #    | \$  | %   | &   | ‘  | (   | )  | *  | +   | ,  | -  | .  | /  |
| 3_ | 0   | 1   | 2  | 3    | 4   | 5   | 6   | 7  | 8   | 9  | :  | ;   | <  | =  | >  | ?  |
| 4_ | @   | A   | B  | C    | D   | E   | F   | G  | H   | I  | J  | K   | L  | M  | N  | O  |
| 5_ | P   | Q   | R  | S    | T   | U   | V   | W  | X   | Y  | Z  | [   | \  | ]  | ^  | _  |
| 6_ | `   | a   | b  | c    | d   | e   | f   | g  | h   | i  | j  | k   | l  | m  | n  | o  |
| 7_ | p   | q   | r  | s    | t   | u   | v   | w  | x   | y  | z  | {   |    | }  | ~  | SP |

**A.3 Character Code Table sets**

The parameter of the code table control by command “ESC t n”

| Parameter “n” |     | Code Page                                           |
|---------------|-----|-----------------------------------------------------|
| Decimal       | Hex |                                                     |
| 0             | 00h | Code Page 0: CP437 (USA, European Standard)         |
| 1             | 01h | Code Page 1: Katakana (Japanese)                    |
| 2             | 02h | Code Page 2: CP850 (Multilingual)                   |
| 3             | 03h | Code Page 3: CP860 (Portuguese)                     |
| 4             | 04h | Code Page 4: CP863 (Canadian-French)                |
| 5             | 05h | Code Page 5: CP865 (Nordic)                         |
| 11            | 0Bh | Code Page 11: CP851 (Greek)                         |
| 12            | 0Ch | Code Page 12: CP853 (Turkish)                       |
| 13            | 0Dh | Code Page 13: CP857 (Turkish)                       |
| 14            | 0Eh | Code Page 14: CP737 (Greek)                         |
| 15            | 0Fh | Code Page 15: ISO8859-7 (Greek)                     |
| 16            | 10h | Code Page 16: WCP1252 (Windows Latin 1)             |
| 17            | 11h | Code Page 17: CP866 (Russian)                       |
| 18            | 12h | Code Page 18: CP852 (Slavonic)                      |
| 19            | 13h | Code Page 19: CP858 (Multilingual with Euro Symbol) |
| 20            | 14h | Code Page 20: KU42 (Thai)                           |
| 21            | 15h | Code Page 21: TIS11 (Thai)                          |
| 22            | 16h | Code Page 22: TIS13 (Thai)                          |
| 23            | 17h | Code Page 23: TIS14 (Thai)                          |
| 24            | 18h | Code Page 24: TIS16 (Thai)                          |
| 25            | 19h | Code Page 25: TIS17 (Thai)                          |
| 26            | 1Ah | Code Page 26: TIS18 (Thai)                          |
| 30            | 1Eh | Code Page 30: TCVN-3A (Vietnamese)                  |
| 31            | 1Fh | Code Page 31: TCVN-3B (Vietnamese)                  |
| 32            | 20h | Code Page 32: CP720 (Arabic)                        |
| 33            | 21h | Code Page 33: CP775 (Baltic)                        |
| 34            | 22h | Code Page 34: CP855 (Cyrillic)                      |
| 35            | 23h | Code Page 35: CP861 (Iceland)                       |

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| Parameter "n" |     | Code Page                                  |
|---------------|-----|--------------------------------------------|
| Decimal       | Hex |                                            |
| 36            | 24h | Code Page 36: CP862 (Hebrew)               |
| 37            | 25h | Code Page 37: CP864 (Arabic)               |
| 38            | 26h | Code Page 38: CP869 (Greek)                |
| 39            | 27h | Code Page 39: ISO8859-2 (Central European) |
| 40            | 28h | Code Page 40: ISO8859-15 (Latin 9)         |
| 41            | 29h | Code Page 41: CP1098 (Farsi)               |
| 42            | 2Ah | Code Page 42: CP1118 (Lithuanian)          |
| 43            | 2Bh | Code Page 43: CP1119 (Lithuanian)          |
| 44            | 2Ch | Code Page 44: CP1125 (Ukrainian)           |
| 45            | 2Dh | Code Page 45: WCP1250 (Central European)   |
| 46            | 2Eh | Code Page 46: WCP1251 (Cyrillic)           |
| 47            | 2Fh | Code Page 47: WCP1253 (Greek)              |
| 48            | 30h | Code Page 48: WCP1254 (Turkish)            |
| 49            | 31h | Code Page 49: WCP1255 (Hebrew)             |
| 50            | 32h | Code Page 50: WCP1256 (Arabic)             |
| 51            | 33h | Code Page 51: WCP1257 (Baltic)             |
| 52            | 34h | Code Page 52: WCP1258 (Vietnamese)         |
| 53            | 35h | Code Page 53: KZ1048 (Kazakhstan)          |

## A.4 Character Code Table List

### Code Page 0: CP437 (USA, European Standard)

|    | _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  | ¢  | £  | ¥  | Pt | f    |
| A_ | á                                                                                 | í                                                                                 | ó                                                                                 | ú  | ñ  | Ñ  | ä  | ö  | ¿  | ¬  | ½  | ¼  | ¡  | «  | »  |      |
| B_ |  |  |  |    | ┌  | ┐  | └  | ┘  | ┼  | ┼  | ┼  | ┼  | ┼  | ┼  | ┼  | ┼    |
| C_ | L                                                                                 | ┐                                                                                 | └                                                                                 | ┌  | ─  | ┼  | ┼  | ┼  | ┼  | ┼  | ┼  | ┼  | ┼  | ┼  | ┼  | ┼    |
| D_ | ┼                                                                                 | ┼                                                                                 | ┼                                                                                 | ┼  | ┼  | ┼  | ┼  | ┼  | ┼  | ┼  | ┼  | ■  | ■  | ■  | ■  | ■    |
| E_ | α                                                                                 | β                                                                                 | Γ                                                                                 | π  | Σ  | σ  | μ  | τ  | φ  | θ  | Ω  | δ  | ∞  | Φ  | ε  | ∩    |
| F_ | ≡                                                                                 | ±                                                                                 | ≥                                                                                 | ≤  | ∫  | ∫  | ÷  | ≈  | °  | •  | ·  | √  | n  | ²  | ■  | NBSP |

### Code Page 1: Katakana (Japanese)

|    | _0 | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E                                                                                    | _F   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------------------------------------------------------------------------------|------|
| 8_ | ─  | ─  | ─  | ─  | ─  | ─  | ─  | ─  |    |    |    |    |    |    |                                                                                       | ┼    |
| 9_ | ┐  | └  | ┌  | ┐  | ─  | ─  |    |    | ┌  | ┐  | ┌  | ┐  | ┌  | ┐  | ┌                                                                                     | ┐    |
| A_ |    | 。  | 「  | 」  | 、  | ・  | ヲ  | ア  | イ  | ウ  | エ  | オ  | ヤ  | ユ  | ヨ                                                                                     | ツ    |
| B_ | ‐  | ア  | イ  | ウ  | エ  | オ  | カ  | キ  | ク  | ケ  | コ  | サ  | シ  | ス  | セ                                                                                     | ソ    |
| C_ | タ  | チ  | ツ  | テ  | ト  | ナ  | ニ  | ヌ  | ネ  | ノ  | ハ  | ヒ  | フ  | ヘ  | ホ                                                                                     | マ    |
| D_ | ミ  | ム  | メ  | モ  | ヤ  | ユ  | ヨ  | ラ  | リ  | ル  | レ  | ロ  | ワ  | ン  | ゝ                                                                                     | °    |
| E_ | =  | ┼  | ┼  | ┼  | ▲  | ▼  | ▼  | ▼  | ♠  | ♥  | ♦  | ♣  | ●  | ○  | /                                                                                     | \    |
| F_ | ×  | 円  | 年  | 月  | 日  | 時  | 分  | 秒  | 〒  | 市  | 区  | 町  | 村  | 人  |  | NBSP |

# WP-K651S Kiosk Thermal Printer

## Code Page 2: CP850 (Multilingual)

|    | _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  | ×  | f    |
| A_ | á  | í  | ó  | ú  | ñ  | Ñ  | ä  | ö  | ¿  | ®  | ¬  | ½  | ¼  | ì  | «  | »    |
| B_ | ☐  | ☐  | ☐  |    | └  | Á  | Â  | À  | ©  | ¶  |    | ¶  | ¶  | ¢  | ¥  | ⌋    |
| C_ | L  | ⊥  | ⊥  | └  | —  | †  | ã  | Ã  | ℓ  | ℓ  | ⊥  | ⊥  | ⊥  | =  | ⊥  | α    |
| D_ | Š  | Đ  | Ê  | Ë  | È  | ı  | Í  | Î  | Ï  | ⌋  | ⌋  | ■  | ■  | ı  | İ  | ■    |
| E_ | ó  | β  | ô  | ò  | õ  | Õ  | μ  | þ  | þ  | Ú  | Û  | Ù  | ý  | Ý  | —  | ‘    |
| F_ | -  | ±  | =  | ¾  | ¶  | §  | ÷  | ,  | °  | ¨  | ·  | ¹  | ³  | ²  | ■  | NBSP |

## Code Page 3: CP860 (Portuguese)

|    | _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  | Pt | Ó    |
| A_ | á  | í  | ó  | ú  | ñ  | Ñ  | ä  | ö  | ¿  | Ò  | ¬  | ½  | ¼  | ì  | «  | »    |
| B_ | ☐  | ☐  | ☐  |    | └  | ≠  |    | π  | ≠  | ¶  |    | ¶  | ¶  | ¶  | ¶  | ⌋    |
| C_ | L  | ⊥  | ⊥  | └  | —  | †  | ‡  |    | ℓ  | ℓ  | ⊥  | ⊥  | ⊥  | =  | ⊥  | ⊥    |
| D_ | ⊥  | ⊥  | π  | ℓ  | ℓ  | ℓ  | π  |    | ≠  | ⌋  | ⌋  | ■  | ■  | ■  | ■  | ■    |
| E_ | α  | β  | Γ  | π  | Σ  | σ  | μ  | τ  | φ  | θ  | Ω  | δ  | ∞  | Φ  | ε  | ∩    |
| F_ | ≡  | ±  | ≥  | ≤  | ∫  | ∫  | ÷  | ≈  | °  | •  | ·  | √  | n  | ²  | ■  | NBSP |

# WP-K651S Kiosk Thermal Printer

## Code Page 4: CP863 (Canadian-French)

|    | _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             | =             | Ä  | §    |
| 9_ | É  | È  | Ê  | ô  | Ë  | Ï  | û  | ù  | œ  | Ô  | Ü  | ¢             | £             | Ù             | Û  | f    |
| A_ | ¡  | ´  | ó  | ú  | ¨  | ,  | ³  | —  | Î  | ƒ  | ¬  | $\frac{1}{2}$ | $\frac{1}{4}$ | $\frac{3}{4}$ | «  | »    |
| B_ |    |    |    |    | ┌  | ┐  | └  | ┘  | ┌  | ┐  | └  | ┘             | ┌             | ┐             | └  | ┘    |
| C_ | Ⓕ  | Ⓖ  | Ⓙ  | Ⓛ  | —  | +  | Ⓢ  | Ⓜ  | Ⓛ  | Ⓡ  | Ⓢ  | Ⓢ             | Ⓢ             | =             | Ⓢ  | Ⓢ    |
| D_ | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | ■             | ■             | ■             | ■  | ■    |
| E_ | α  | β  | Γ  | π  | Σ  | σ  | μ  | τ  | φ  | θ  | Ω  | δ             | ∞             | Φ             | ε  | ∩    |
| F_ | ≡  | ±  | ≥  | ≤  | ∫  | ∫  | ÷  | ≈  | °  | •  | ·  | √             | n             | ²             | ■  | NBSP |

## Code Page 5: CP865 (Nordic)

|    | _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  | Pt | f    |
| A_ | á  | í  | ó  | ú  | ñ  | Ñ  | ä  | ö  | ¿  | ƒ  | ¬  | $\frac{1}{2}$ | $\frac{1}{4}$ | ¡  | «  | œ    |
| B_ |    |    |    |    | ┌  | ┐  | └  | ┘  | ┌  | ┐  | └  | ┘             | ┌             | ┐  | └  | ┘    |
| C_ | Ⓕ  | Ⓖ  | Ⓙ  | Ⓛ  | —  | +  | Ⓢ  | Ⓜ  | Ⓛ  | Ⓡ  | Ⓢ  | Ⓢ             | Ⓢ             | =  | Ⓢ  | Ⓢ    |
| D_ | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | Ⓢ  | ■             | ■             | ■  | ■  | ■    |
| E_ | α  | β  | Γ  | π  | Σ  | σ  | μ  | τ  | φ  | θ  | Ω  | δ             | ∞             | Φ  | ε  | ∩    |
| F_ | ≡  | ±  | ≥  | ≤  | ∫  | ∫  | ÷  | ≈  | °  | •  | ·  | √             | n             | ²  | ■  | NBSP |

# WP-K651S Kiosk Thermal Printer

## Code Page 11: CP851 (Greek)

|    | _0                                                                                | _1                                                                                | _2                                                                                | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B                                                                                  | _C                                                                                  | _D | _E                                                                                  | _F                                                                                  |
|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 8_ | Ç                                                                                 | ü                                                                                 | é                                                                                 | â  | ä  | à  | À  | ç  | ê  | ë  | è  | ï                                                                                   | î                                                                                   | Ê  | Ä                                                                                   | Ë                                                                                   |
| 9_ | Ï                                                                                 |                                                                                   | Ô                                                                                 | ô  | ö  | Υ  | û  | ù  | Ω  | Ö  | Ü  | ά                                                                                   | £                                                                                   | έ  | ή                                                                                   | ί                                                                                   |
| A_ | ï                                                                                 | ĩ                                                                                 | ó                                                                                 | ú  | Α  | Β  | Γ  | Δ  | Ε  | Ζ  | Η  | $\frac{1}{2}$                                                                       | Θ                                                                                   | Ι  | «                                                                                   | »                                                                                   |
| B_ |  |  |  |    | †  | Κ  | Λ  | Μ  | Ν  | ‡  |    | ¶                                                                                   | ‡                                                                                   | ≡  | Ο                                                                                   | γ                                                                                   |
| C_ | ℒ                                                                                 | ⊥                                                                                 | ⊥                                                                                 | †  | —  | †  | Π  | Ρ  | ℒ  | ℒ  | ⊥  | ⊥                                                                                   | ‡                                                                                   | =  | ‡                                                                                   | Σ                                                                                   |
| D_ | Τ                                                                                 | Υ                                                                                 | Φ                                                                                 | Χ  | Ψ  | Ω  | α  | β  | γ  | ⌋  | ⌈  |  |  | δ  | ε                                                                                   |  |
| E_ | ζ                                                                                 | η                                                                                 | θ                                                                                 | ι  | κ  | λ  | μ  | ν  | ξ  | ο  | π  | ρ                                                                                   | σ                                                                                   | ς  | τ                                                                                   | ´                                                                                   |
| F_ | -                                                                                 | ±                                                                                 | υ                                                                                 | φ  | χ  | §  | ψ  | ,  | °  | ¨  | ω  | ü                                                                                   | ÿ                                                                                   | ώ  |  | NBSP                                                                                |

## Code Page 12: CP853 (Turkish)

|    | _0                                                                                  | _1                                                                                  | _2                                                                                  | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B                                                                                    | _C                                                                                    | _D | _E                                                                                    | _F                                                                                    |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 8_ | Ç                                                                                   | ü                                                                                   | é                                                                                   | â  | ä  | à  | â  | ç  | ê  | ë  | è  | ï                                                                                     | î                                                                                     | ì  | Ä                                                                                     | Ê                                                                                     |
| 9_ | É                                                                                   | ç                                                                                   | Ê                                                                                   | ô  | ö  | ò  | û  | ù  | î  | Ö  | Ü  | ô                                                                                     | £                                                                                     | Ê  | ×                                                                                     | ÿ                                                                                     |
| A_ | á                                                                                   | í                                                                                   | ó                                                                                   | ú  | ñ  | Ñ  | Ğ  | ğ  | Ê  | ê  |    | $\frac{1}{2}$                                                                         | Ê                                                                                     | ş  | «                                                                                     | »                                                                                     |
| B_ |  |  |  |    | †  | Á  | Â  | À  | Ş  | ‡  |    | ¶                                                                                     | ‡                                                                                     | Ž  | ž                                                                                     | γ                                                                                     |
| C_ | ℒ                                                                                   | ⊥                                                                                   | ⊥                                                                                   | †  | —  | †  | Ŝ  | ŝ  | ℒ  | ℒ  | ⊥  | ⊥                                                                                     | ‡                                                                                     | =  | ‡                                                                                     | α                                                                                     |
| D_ |                                                                                     |                                                                                     | Ê                                                                                   | Ë  | È  | ı  | Í  | Î  | Ï  | ⌋  | ⌈  |  |  |    | İ                                                                                     |  |
| E_ | Ó                                                                                   | β                                                                                   | Ô                                                                                   | Ò  | Ğ  | ğ  | μ  | ℥  | ℥  | Ú  | Û  | Ü                                                                                     | Û                                                                                     | ü  | ·                                                                                     | ´                                                                                     |
| F_ | -                                                                                   |                                                                                     | ℓ                                                                                   | ñ  | ˘  | §  | ÷  | ,  | °  | ¨  | ·  |                                                                                       | 3                                                                                     | 2  |  | NBSP                                                                                  |

WP-K651S Kiosk Thermal Printer

Code Page 13: CP857 (Turkish)

|    | _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             | ı  | 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  | ı  | ®  | ¬  | $\frac{1}{2}$ | $\frac{1}{4}$ | ı  | «  | »    |
| B_ |    |    |    |               | ┌  | Á  | Â  | À  | ©  | ¶  |    | ¶             | ¶             | ¢  | ¥  | ¬    |
| C_ | L  | ┐  | └  | ┌             | —  | +  | ã  | Ã  | ℓ  | ℓ  | ℓ  | ℓ             | ℓ             | =  | ℓ  | α    |
| D_ | o  | a  | Ê  | Ë             | È  |    | Í  | Î  | Ï  | J  | Γ  | ■             | ■             | ı  | İ  | ■    |
| E_ | Ó  | β  | Ô  | Ò             | õ  | Õ  | μ  |    | ×  | Ú  | Û  | Ù             | ì             | ÿ  | —  | '    |
| F_ | -  | ±  |    | $\frac{3}{4}$ | ¶  | §  | ÷  | ,  | °  | ¨  | .  | 1             | 3             | 2  | ■  | NBSP |

Code Page 14: CP737 (Greek)

|    | _0 | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 8_ | A  | B  | Γ  | Δ  | E  | Z  | H  | Θ  | I  | K  | Λ  | M  | N  | Ξ  | O  | Π    |
| 9_ | P  | Σ  | T  | Υ  | Φ  | X  | Ψ  | Ω  | α  | β  | γ  | δ  | ε  | ζ  | η  | θ    |
| A_ | ι  | κ  | λ  | μ  | ν  | ξ  | ο  | π  | ρ  | σ  | ς  | τ  | υ  | φ  | χ  | ψ    |
| B_ |    |    |    |    | ┌  | ┐  | ┐  | ┐  | ┐  | ┐  |    | ¶  | ¶  | ¶  | ¶  | ┐    |
| C_ | L  | ┐  | └  | ┌  | —  | +  | ┐  |    | ℓ  | ℓ  | ℓ  | ℓ  | ℓ  | =  | ℓ  | ℓ    |
| D_ | ℓ  | ℓ  | π  | ℓ  | ℓ  | ℓ  | π  |    | ≠  | J  | Γ  | ■  | ■  | ■  | ■  | ■    |
| E_ | ω  | ά  | έ  | ή  | ϊ  | ί  | ό  | ύ  | ϋ  | ώ  | Α  | Ε  | Η  | Ι  | Ο  | Υ    |
| F_ | Ω  | ±  | ≥  | ≤  | İ  | ÿ  | ÷  | ≈  | °  | •  | ·  | √  | n  | 2  | ■  | NBSP |

Code Page 15: ISO8859-7 (Greek)

|    | _0          | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D            | _E | _F |
|----|-------------|----|----|----|----|----|----|----|----|----|----|----|----|---------------|----|----|
| 8_ |             |    |    |    |    |    |    |    |    |    |    |    |    |               |    |    |
| 9_ |             |    |    |    |    |    |    |    |    |    |    |    |    |               |    |    |
| A_ | <u>NBSP</u> | ‘  | ’  | £  | €  | Ɔp | ¡  | §  | ¨  | ©  |    | «  | ¬  | -             |    | —  |
| B_ | °           | ±  | ²  | ³  | ´  | ˘  | À  | ·  | Έ  | Η  | Ι  | »  | Ό  | $\frac{1}{2}$ | Υ  | Ω  |
| C_ | ϊ           | Α  | Β  | Γ  | Δ  | Ε  | Ζ  | Η  | Θ  | Ι  | Κ  | Λ  | Μ  | Ν             | Ξ  | Ο  |
| D_ | Π           | Ρ  |    | Σ  | Τ  | Υ  | Φ  | Χ  | Ψ  | Ω  | Ϊ  | Ϋ  | ά  | έ             | ή  | ί  |
| E_ | ϋ           | α  | β  | γ  | δ  | ε  | ζ  | η  | θ  | ι  | κ  | λ  | μ  | ν             | ξ  | ο  |
| F_ | π           | ρ  | ς  | σ  | τ  | υ  | φ  | χ  | ψ  | ω  | ϊ  | ϋ  | ό  | ύ             | ώ  |    |

Code Page 16: WCP1252 (Windows Latin 1)

|    | _0          | _1 | _2 | _3 | _4 | _5  | _6 | _7 | _8 | _9 | _A | _B | _C            | _D            | _E            | _F |
|----|-------------|----|----|----|----|-----|----|----|----|----|----|----|---------------|---------------|---------------|----|
| 8_ | €           |    | ,  | f  | „  | ... | †  | ‡  | ^  | ‰  | Š  | ‹  | Œ             |               | Ž             | ə  |
| 9_ |             | ‘  | ’  | “  | ”  | •   | —  | —  | ~  | ™  | š  | ›  | œ             |               | ž             | ÿ  |
| A_ | <u>NBSP</u> | ı  | ¢  | £  | ¤  | ¥   | ¦  | §  | ¨  | ©  | ª  | «  | ¬             | -             | ®             | ¯  |
| B_ | °           | ±  | ²  | ³  | ´  | µ   | ¶  | ·  | ,  | ¹  | º  | »  | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | ¿  |
| C_ | À           | Á  | Â  | Ã  | Ä  | Å   | Æ  | Ç  | È  | É  | Ê  | Ë  | Ì             | Í             | Î             | Ï  |
| D_ | Ð           | Ñ  | Ò  | Ó  | Ô  | Õ   | Ö  | ×  | Ø  | Ù  | Ú  | Û  | Ü             | Ý             | Þ             | ß  |
| E_ | à           | á  | â  | ã  | ä  | å   | æ  | ç  | è  | é  | ê  | ë  | ì             | í             | î             | ï  |
| F_ | ð           | ñ  | ò  | ó  | ô  | õ   | ö  | ÷  | ø  | ù  | ú  | û  | ü             | ý             | þ             | ÿ  |

Code Page 17: CP866 (Russian)

|    | _0                                                                                | _1                                                                                | _2                                                                                | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F   |
|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 8_ | А                                                                                 | Б                                                                                 | В                                                                                 | Г  | Д  | Е  | Ж  | З  | И  | Й  | К  | Л  | М  | Н  | О  | П    |
| 9_ | Р                                                                                 | С                                                                                 | Т                                                                                 | У  | Ф  | Х  | Ц  | Ч  | Ш  | Щ  | Ъ  | Ы  | Ь  | Э  | Ю  | Я    |
| A_ | а                                                                                 | б                                                                                 | в                                                                                 | г  | д  | е  | ж  | з  | и  | й  | к  | л  | м  | н  | о  | п    |
| B_ |  |  |  |    | ┌  | ┐  | └  | ┘  | ┌  | ┐  | └  | ┘  | ┌  | ┐  | └  | ┘    |
| C_ | ⌒                                                                                 | ⌑                                                                                 | ⌒                                                                                 | └  | —  | └  | └  | └  | └  | └  | └  | └  | └  | └  | └  | └    |
| D_ | ⌒                                                                                 | └                                                                                 | └                                                                                 | └  | └  | └  | └  | └  | └  | └  | └  | ■  | ■  | ■  | ■  | ■    |
| E_ | р                                                                                 | с                                                                                 | т                                                                                 | у  | ф  | х  | ц  | ч  | ш  | щ  | ъ  | ы  | ь  | э  | ю  | я    |
| F_ | Ё                                                                                 | ё                                                                                 | ё                                                                                 | ё  | Ї  | ї  | Ў  | ў  | °  | •  | ·  | √  | №  | ¤  | ■  | NBSP |

Code Page 18: CP852 (Slavonic)

|    | _0                                                                                  | _1                                                                                  | _2                                                                                  | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F   |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 8_ | Ç                                                                                   | ű                                                                                   | é                                                                                   | â  | ä  | ű  | ć  | ç  | ł  | ë  | Ő  | ő  | î  | Ž  | Ä  | Ć    |
| 9_ | É                                                                                   | Í                                                                                   | í                                                                                   | ô  | ö  | Ĺ  | ĭ  | Ś  | ś  | Ö  | Ü  | Ť  | ť  | Ł  | χ  | Č    |
| A_ | á                                                                                   | í                                                                                   | ó                                                                                   | ú  | Ą  | ą  | Ž  | ž  | Ę  | ę  |    | ż  | Č  | ś  | «  | »    |
| B_ |  |  |  |    | ┌  | Á  | Â  | Ě  | Š  | └  | └  | └  | └  | ž  | ž  | └    |
| C_ | ⌒                                                                                   | ⌑                                                                                   | ⌒                                                                                   | └  | —  | └  | Ă  | ă  | ⌒  | ⌒  | ⌒  | ⌒  | ⌒  | ⌒  | ⌒  | ¤    |
| D_ | đ                                                                                   | Đ                                                                                   | Đ                                                                                   | Ě  | ď  | Ň  | Í  | Î  | ě  | └  | └  | ■  | ■  | └  | Ů  | ■    |
| E_ | Ó                                                                                   | ß                                                                                   | Ô                                                                                   | Ň  | ń  | ň  | Š  | š  | Ř  | Ú  | ř  | Ů  | ý  | Ý  | ť  | ´    |
| F_ | —                                                                                   | “                                                                                   | „                                                                                   | ˘  | ˘  | §  | ÷  | „  | °  | “  | ·  | ű  | Ř  | ř  | ■  | NBSP |

WP-K651S Kiosk Thermal Printer

Code Page 19: CP858 (Multilingual with Euro Symbol)

|    | _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  | ×  | f    |
| A_ | á  | í  | ó  | ú  | ñ  | Ñ  | ä  | ö  | ¿  | ®  | ¬  | ½  | ¼  | ì  | «  | »    |
| B_ | ⌘  | ⌘  | ⌘  |    | ⌞  | Á  | Â  | À  | ©  | ⌚  | ⌚  | ⌚  | ⌚  | ¢  | ¥  | ⌞    |
| C_ | L  | ⊥  | ⊥  | ⊥  | —  | ⊥  | ã  | Ã  | ℒ  | ℒ  | ℒ  | ℒ  | ℒ  | =  | ℒ  | α    |
| D_ | ǒ  | Đ  | Ê  | Ë  | È  | €  | Í  | Î  | Ï  | ⌞  | ⌞  | ■  | ■  | !  | !  | ■    |
| E_ | ó  | β  | ô  | ò  | õ  | Õ  | μ  | þ  | þ  | Ú  | Û  | Ù  | ý  | Ý  | —  | '    |
| F_ | —  | ±  | =  | ¾  | ¶  | §  | ÷  | ,  | °  | ¨  | ·  | ¹  | ³  | ²  | ■  | NBSP |

Code Page 20: KU42 (Thai)

|    | _0   | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F   |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 8_ | ⌞    | ⌞  | L  | ⌞  |    | —  | ⊥  | ⊥  | ⊥  | ⊥  | ⊥  | ■  | ←  | ↑  | →  | ↓    |
| 9_ | ๐    | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕    |
| A_ | NBSP | ก  | ข  | ค  | ฅ  | ง  | จ  | ฉ  | ช  | ซ  | ฌ  | ญ  | ฎ  | ฏ  | ฐ  | ฑ    |
| B_ | ฒ    | ณ  | ด  | ต  | ถ  | ท  | ธ  | น  | บ  | ป  | ผ  | ฝ  | พ  | ฟ  | ภ  | ม    |
| C_ | ย    | ร  | ฤ  | ล  | ว  | ศ  | ษ  | ส  | ห  | ฬ  | อ  | ฮ  | ะ  | ภ  | า  | ำ    |
| D_ | เ    | แ  | โ  | ใ  | ไ  | ฯ  | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐    |
| E_ | ๑    | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  | ๖    |
| F_ | ๑    | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  | NBSP |

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Code Page 21: TIS11 (Thai)

|    | _0 | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 8_ | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  |
| 9_ | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  |
| A_ | เ  | ก  | ข  | ฅ  | ค  | ศ  | ฌ  | ง  | จ  | ฉ  | ช  | ซ  | ฌ  | ญ  | ฎ  | ฏ  |
| B_ | ฐ  | ฑ  | ฒ  | ณ  | ด  | ต  | ถ  | ท  | ธ  | น  | บ  | ป  | ผ  | ฝ  | พ  | ฟ  |
| C_ | ภ  | ม  | ย  | ร  | ฤ  | ล  | ภ  | ว  | ศ  | ษ  | ส  | ห  | ฬ  | อ  | ฮ  | ฯ  |
| D_ | ะ  | ั  | า  | ำ  | ิ  | ี  | ึ  | ุ  | เ  | อ  | เ  | เ  | เ  | เ  | เ  | เ  |
| E_ | เ  | แ  | โ  | ใ  | ไ  | า  | า  | เ  | เ  | เ  | เ  | เ  | เ  | เ  | เ  | เ  |
| F_ | อ  | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  |

Code Page 22: TIS13 (Thai)

|    | _0   | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 8_ |      | ๐  | ๑  | ๒  | ๓  |    | ๖  | ๗  | ๘  | ๙  |    | ๐  | ๑  | ๒  | ๓  | ๔  |
| 9_ | ๖    | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  |
| A_ | NBSP | ก  | ข  | ฅ  | ค  | ศ  | ฌ  | ง  | จ  | ฉ  | ช  | ซ  | ฌ  | ญ  | ฎ  | ฏ  |
| B_ | ฐ    | ฑ  | ฒ  | ณ  | ด  | ต  | ถ  | ท  | ธ  | น  | บ  | ป  | ผ  | ฝ  | พ  | ฟ  |
| C_ | ภ    | ม  | ย  | ร  | ฤ  | ล  | ภ  | ว  | ศ  | ษ  | ส  | ห  | ฬ  | อ  | ฮ  | ฯ  |
| D_ | ะ    | ั  | า  | ำ  | ิ  | ี  | ึ  | ุ  | เ  | อ  | เ  | เ  | เ  | เ  | เ  | เ  |
| E_ | เ    | แ  | โ  | ใ  | ไ  | า  | า  | เ  | เ  | เ  | เ  | เ  | เ  | เ  | เ  | เ  |
| F_ | อ    | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  |

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Code Page 23: TIS14 (Thai)

|    | _0          | _1  | _2  | _3  | _4  | _5  | _6  | _7  | _8  | _9  | _A  | _B  | _C  | _D  | _E  | _F  |
|----|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8_ | ┐           | ┌   | └   | ┘   | ┌   | ┐   | ┌   | ┐   | ┌   | ┐   | ┌   | ■   | ◌̇  | ◌̈́ | ◌̈́ | ◌̈́ |
| 9_ | ◌̈́         | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ |
| A_ | <u>NBSP</u> | ก   | ข   | ฅ   | ค   | ค   | ฅ   | ง   | จ   | ฉ   | ช   | ซ   | ฅ   | ญ   | ฎ   | ฏ   |
| B_ | ฐ           | ฑ   | ฒ   | ณ   | ด   | ต   | ถ   | ท   | ธ   | น   | บ   | ป   | ผ   | ฝ   | พ   | ฟ   |
| C_ | ภ           | ม   | ย   | ร   | ฤ   | ล   | ภ   | ว   | ศ   | ษ   | ส   | ห   | ฬ   | อ   | ฮ   | ฯ   |
| D_ | ะ           | ั   | า   | ำ   | ิ   | ี   | ึ   | ุ   |     |     |     | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ฿   |
| E_ | เ           | แ   | โ   | ใ   | ไ   | า   | ๆ   | ฅ   | ◌̈́ | ◌̈́ | ◌̈́ | +   | ◌̈́ | ◌̈́ | ◌̈́ | ๐   |
| F_ | ๐           | ๑   | ๒   | ๓   | ๔   | ๕   | ๖   | ๗   | ๘   | ๙   | ๐๗  | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ๙   |

Code Page 24: TIS16 (Thai)

|    | _0          | _1 | _2  | _3  | _4  | _5 | _6  | _7  | _8  | _9  | _A  | _B  | _C  | _D  | _E  | _F          |
|----|-------------|----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|
| 8_ | ┐           | ┌  | └   | ┘   | ┌   | ┐  | ┌   | ┐   | ┌   | ┐   | ┌   | ■   | ←   | ↑   | →   | ↓           |
| 9_ | โ           | ใ  | ะ   | ั   | ึ   | ุ  | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | เ           |
| A_ | <u>NBSP</u> | ก  | ข   | ฅ   | ค   | ค  | ฅ   | ง   | จ   | ฉ   | ช   | ซ   | ฅ   | ญ   | ฎ   | ฏ           |
| B_ | ฐ           | ฑ  | ฒ   | ณ   | ด   | ต  | ถ   | ท   | ธ   | น   | บ   | ป   | ผ   | ฝ   | พ   | ฟ           |
| C_ | ภ           | ม  | ย   | ร   | ฤ   | ล  | ภ   | ว   | ศ   | ษ   | ส   | ห   | ฬ   | อ   | ฮ   | ฯ           |
| D_ | ะ           | ั  | า   | ำ   | ิ   | ี  | ึ   | ุ   |     |     |     | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | ฿           |
| E_ | เ           | แ  | ◌̈́ | ◌̈́ | ◌̈́ | า  | ๆ   | ฅ   | ◌̈́ | ◌̈́ | ◌̈́ | +   | ◌̈́ | ◌̈́ | ไ   | ๐           |
| F_ | ๐           | ๑  | ๒   | ๓   | ๔   | ๕  | ๖   | ๗   | ๘   | ๙   | ๐๗  | ◌̈́ | ◌̈́ | ◌̈́ | ◌̈́ | <u>NBSP</u> |

Code Page 25: TIS17 (Thai)

|    | _0          | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 8_ | ๐           | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  |
| 9_ | ๖           | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  |
| A_ | <u>NBSP</u> | ก  | ข  | ฃ  | ค  | ฅ  | ฉ  | ง  | จ  | ฉ  | ช  | ฌ  | ฎ  | ญ  | ฎ  | ฏ  |
| B_ | ฐ           | ฑ  | ฒ  | ณ  | ด  | ต  | ถ  | ท  | ธ  | น  | บ  | ป  | ผ  | ฝ  | พ  | ฟ  |
| C_ | ภ           | ม  | ย  | ร  | ฤ  | ล  | ฬ  | ว  | ศ  | ษ  | ส  | ห  | ฬ  | อ  | ฮ  | ฯ  |
| D_ | ะ           | ั  | า  | ำ  | ิ  | ี  | ึ  | ุ  |    |    |    | เ  | อ  | ๖  | ๗  | ๘  |
| E_ | ๐           | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  |
| F_ | ๐           | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  |

Code Page 26: TIS18 (Thai)

|    | _0          | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 8_ | ๐           | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  |
| 9_ | ๖           | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  |
| A_ | <u>NBSP</u> | ก  | ข  | ฃ  | ค  | ฅ  | ฉ  | ง  | จ  | ฉ  | ช  | ฌ  | ฎ  | ญ  | ฎ  | ฏ  |
| B_ | ฐ           | ฑ  | ฒ  | ณ  | ด  | ต  | ถ  | ท  | ธ  | น  | บ  | ป  | ผ  | ฝ  | พ  | ฟ  |
| C_ | ภ           | ม  | ย  | ร  | ฤ  | ล  | ฬ  | ว  | ศ  | ษ  | ส  | ห  | ฬ  | อ  | ฮ  | ฯ  |
| D_ | ะ           | ั  | า  | ำ  | ิ  | ี  | ึ  | ุ  |    |    |    | เ  | อ  | ๖  | ๗  | ๘  |
| E_ | ๐           | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  |
| F_ | ๐           | ๑  | ๒  | ๓  | ๔  | ๕  | ๖  | ๗  | ๘  | ๙  | ๐  | ๑  | ๒  | ๓  | ๔  | ๕  |

Code Page 30: TCVN-3A (Vietnamese)

|    | _0 | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 8_ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |
| 9_ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |
| A_ |    |    |    |    |    |    |    |    | ă  | â  | ê  | ô  | ơ  | ư  | đ  |      |
| B_ |    |    |    |    |    | à  | ả  | ã  | á  | ạ  |    | ằ  | ẳ  | ẵ  | ắ  |      |
| C_ |    |    |    |    |    |    | ặ  | ầ  | ẩ  | ẫ  | ấ  | ậ  | è  |    | ẻ  | ẽ    |
| D_ | é  | ẹ  | ê  | ể  | ễ  | ế  | ệ  | ì  | ỉ  |    |    |    | ĩ  | í  | ị  | ò    |
| E_ |    | ỏ  | õ  | ó  | ọ  | ồ  | ổ  | ỗ  | ố  | ộ  | ờ  | ở  | ỡ  | ớ  | ợ  | ù    |
| F_ |    | ủ  | ũ  | ú  | ụ  | ừ  | ử  | ữ  | ứ  | ự  | ỳ  | ỷ  | ỹ  | ý  | y  | NBSP |

Code Page 31: TCVN-3B (Vietnamese)

|    | _0 | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 8_ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |
| 9_ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |
| A_ |    | Ă  | Â  |    |    |    |    | Đ  |    |    | Ê  | Ô  | Ơ  | Ư  |    |      |
| B_ |    |    |    |    |    | À  | Ả  | Ã  | Á  | Ạ  |    | Ằ  | Ẳ  | Ẵ  | Ắ  |      |
| C_ |    |    |    |    |    |    | Ặ  | Ầ  | Ẩ  | Ẫ  | Ấ  | Ậ  | È  |    | Ẻ  | Ễ    |
| D_ | É  | Ẹ  | Ê  | Ể  | Ễ  | Ế  | Ệ  | Ì  | Ỉ  |    |    |    | Ĩ  | Í  | Ị  | Ò    |
| E_ |    | Ỏ  | Õ  | Ó  | Ọ  | Ồ  | Ổ  | Ỗ  | Ố  | Ộ  | Ờ  | Ở  | Ỡ  | Ớ  | Ợ  | Ù    |
| F_ |    | Ủ  | Ũ  | Ú  | Ụ  | Ừ  | Ử  | Ữ  | Ứ  | Ự  | Ỡ  | Ỡ  | Ỡ  | Ỡ  | Ỡ  | NBSP |

Code Page 32: CP720 (Arabic)

|    | _0 | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 8_ |    |    | é  | â  |    | à  |    | ç  | ê  | ë  | è  | ï  | î  |    |    |      |
| 9_ |    | ّ  | ّ  | ô  | ¤  | -  | û  | ù  | ء  | آ  | أ  | ؤ  | £  | إ  | ئ  | ا    |
| A_ | ب  | ة  | ت  | ث  | ج  | ح  | خ  | د  | ذ  | ر  | ز  | س  | ش  | ص  | «  | »    |
| B_ | ٲ  | ٲ  | ٲ  |    |    |    |    |    |    |    |    |    |    |    |    |      |
| C_ | L  | L  | T  | T  | -  | +  | +  | +  | +  | +  | +  | +  | +  | =  | +  | +    |
| D_ | L  | T  | T  | L  | L  | F  | T  | T  | T  | T  | T  | T  | T  | T  | T  | T    |
| E_ | ض  | ط  | ظ  | ع  | غ  | ف  | μ  | ق  | ك  | ل  | م  | ن  | ه  | و  | ى  | ي    |
| F_ | ≡  | ّ  | ّ  | ّ  | ّ  | ّ  | ّ  | ≈  | °  | .  | .  | √  | n  | 2  | ■  | NBSP |

Code Page 33: CP775 (Baltic)

|    | _0 | _1 | _2 | _3            | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B            | _C            | _D | _E | _F   |
|----|----|----|----|---------------|----|----|----|----|----|----|----|---------------|---------------|----|----|------|
| 8_ | Ć  | ü  | é  | ā             | ä  | ġ  | å  | ć  | ł  | ē  | Ŗ  | ŗ             | ī             | Ž  | Ä  | Å    |
| 9_ | É  | æ  | Æ  | ō             | ö  | Ģ  | č  | Ś  | ś  | Ö  | Ü  | ø             | £             | Ø  | ×  | ¤    |
| A_ | Ā  | Ī  | ó  | Ž             | ž  | ž  | ”  |    | ©  | ®  | ¬  | $\frac{1}{2}$ | $\frac{1}{4}$ | Ł  | «  | »    |
| B_ | ٲ  | ٲ  | ٲ  |               |    | A  | Č  | Ę  | Ė  |    |    |               |               |    | Š  |      |
| C_ | L  | L  | T  | T             | -  | +  | U  | U  | L  | +  | +  | +             | +             | =  | +  | Ž    |
| D_ | ą  | č  | ę  | ė             | į  | š  | ų  | ū  | ž  | ┘  | ┘  | ■             | ■             | ■  | ■  | ■    |
| E_ | Ó  | β  | Ō  | Ń             | õ  | Õ  | μ  | ń  | Ų  | ķ  | Ł  | Į             | ŋ             | Ē  | Ņ  | '    |
| F_ | -  | ±  | “  | $\frac{3}{4}$ | ¶  | §  | ÷  | „  | °  | .  | .  | 1             | 3             | 2  | ■  | NBSP |

Code Page 34: CP855 (Cyrillic)

|    | _0 | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 8_ | ђ  | Ђ  | ѓ  | Ѓ  | ё  | Ё  | є  | Є  | ѕ  | Ѕ  | і  | І  | ї  | Ї  | ј  | Ј    |
| 9_ | љ  | Љ  | њ  | Њ  | ћ  | Ћ  | ќ  | Ќ  | џ  | Џ  | џ  | џ  | ю  | Ю  | ъ  | Ъ    |
| A_ | а  | А  | б  | Б  | ц  | Ц  | д  | Д  | е  | Е  | ф  | Ф  | г  | Г  | «  | »    |
| B_ |    |    |    |    | ┌  | х  | Х  | и  | И  |    |    | ┐  | ┐  | й  | Й  | └    |
| C_ | ┐  | ┐  | ┐  | ┐  | —  | ┐  | к  | К  | ┐  | ┐  | ┐  | ┐  | ┐  | ┐  | ┐  | а    |
| D_ | л  | Л  | м  | М  | н  | Н  | о  | О  | п  | ┐  | ┐  |    |    | п  | я  |      |
| E_ | Я  | р  | Р  | с  | С  | т  | Т  | у  | У  | ж  | Ж  | в  | В  | ь  | Ь  | №    |
| F_ | -  | ы  | Ы  | з  | З  | ш  | Ш  | э  | Э  | щ  | Щ  | ч  | Ч  | §  |    | NBSP |

Code Page 35: CP861 (Iceland)

|    | _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  | Pt | f    |
| A_ | á  | í  | ó  | ú  | Á  | Í  | Ó  | Ú  | ı  | ┐  | ┐  | $\frac{1}{2}$ | $\frac{1}{4}$ | ı  | «  | »    |
| B_ |    |    |    |    | ┌  | ┐  | ┐  | ┐  | ┐  |    |    | ┐             | ┐             | ┐  | ┐  | ┐    |
| C_ | ┐  | ┐  | ┐  | ┐  | —  | ┐  | ┐  | ┐  | ┐  | ┐  | ┐  | ┐             | ┐             | ┐  | ┐  | ┐    |
| D_ | ┐  | ┐  | ┐  | ┐  | ┐  | ┐  | ┐  | ┐  | ┐  | ┐  | ┐  |               |               |    |    |      |
| E_ | α  | β  | Γ  | π  | Σ  | σ  | μ  | τ  | φ  | θ  | Ω  | δ             | ∞             | Φ  | ε  | ∩    |
| F_ | ≡  | ±  | ≥  | ≤  | ┐  | ┐  | ÷  | ≈  | °  | ●  | •  | √             | n             | ²  |    | NBSP |

# WP-K651S Kiosk Thermal Printer

## Code Page 36: CP862 (Hebrew)

|    | _0 | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D  | _E | _F   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|------|
| 8_ | א  | ב  | ג  | ד  | ה  | ו  | ז  | ח  | ט  | י  | ך  | כ  | ל  | ם   | נ  | ן    |
| 9_ | ס  | ע  | ף  | פ  | ץ  | צ  | ק  | ר  | ש  | ת  | ף  | £  | ¥  | Pls | f  |      |
| A_ | á  | í  | ó  | ú  | ñ  | Ñ  | ä  | ö  | ¿  | ¬  | ½  | ¼  | €  | «   | »  |      |
| B_ | ⋯  | ⋮  | ⋱  |    | ├  | ┤  | ┥  | ┦  | ┧  | ┨  | ┩  | ┪  | ┫  | ┬   | ┭  | ┮    |
| C_ | ┰  | ┱  | ┲  | ┳  | ┴  | ┵  | ┶  | ┷  | ┸  | ┹  | ┺  | ┻  | ┼  | ┽   | ┿  | ⌞    |
| D_ | ⌟  | ⌠  | ⌡  | ⌢  | ⌣  | ⌤  | ⌥  | ⌦  | ⌧  | ⌨  | 〈  | ■  | ▀  | ▁   | ▂  | ▃    |
| E_ | α  | β  | Γ  | π  | Σ  | σ  | μ  | τ  | φ  | Θ  | Ω  | δ  | ∞  | Φ   | ε  | ∩    |
| F_ | ≡  | ±  | ≥  | ≤  | ∫  | ∫  | ÷  | ≈  | °  | •  | ·  | √  | n  | ²   | ■  | NBSP |

## Code Page 37: CP864 (Arabic)

|    | _0 | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 8_ | °  | ·  | ·  | √  | ⋯  | —  |    | ├  | ├  | ┤  | ┤  | ┥  | ┥  | ┦  | ┦  | ┧    |
| 9_ | β  | ∞  | Φ  | ±  | ½  | ¼  | ≈  | «  | »  | لا | لا |    |    | لا | لا | ،    |
| A_ |    | -  | آ  | £  | ¤  | أ  |    | €  | ا  | ب  | ت  | ث  | ،  | ج  | ح  | خ    |
| B_ | ·  | ١  | ٢  | ٣  | ٤  | ٥  | ٦  | ٧  | ٨  | ٩  | ف  | ؛  | س  | ش  | ص  | ؟    |
| C_ | ¢  | ء  | أ  | أ  | ؤ  | ع  | ئ  | ا  | ب  | ة  | ت  | ث  | ج  | ح  | خ  | د    |
| D_ | ذ  | ر  | ز  | س  | ش  | ط  | ظ  | ط  | ظ  | ع  | غ  | ا  | ا  | ÷  | ×  | ع    |
| E_ | -  | ف  | ق  | ك  | ل  | م  | ن  | ه  | و  | ى  | ي  | ض  | ع  | غ  | غ  | م    |
| F_ | ـ  | ّ  | ن  | ه  | ه  | ى  | ي  | غ  | ق  | لا | لا | ل  | ك  | ي  | ■  | NBSP |

Code Page 38: CP869 (Greek)

|    | _0 | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 8_ |    |    |    |    |    |    | À  | €  | ·  | ¬  | ¡  | ‘  | ’  | Έ  | —  | Ή    |
| 9_ | ı  | İ  | Ο  |    |    | Υ  | ÿ  | ©  | Ω  | ²  | ³  | ά  | £  | έ  | ή  | ί    |
| A_ | ï  | ĩ  | ó  | ú  | Α  | Β  | Γ  | Δ  | Ε  | Ζ  | Η  | ½  | Θ  | Ι  | «  | »    |
| B_ | ▒  | ▒  | ▒  |    | †  | Κ  | Λ  | Μ  | Ν  | ¶  |    | ⌈  | ⌋  | ≡  | Ο  | ⌋    |
| C_ | Ł  | ⊥  | ⊥  | †  | —  | †  | Π  | Ρ  | ⋈  | ⌈  | ⋈  | ⌈  | ⌋  | =  | ⌈  | Σ    |
| D_ | Τ  | Υ  | Φ  | Χ  | Ψ  | Ω  | α  | β  | γ  | ⌋  | ⌈  | ■  | ■  | δ  | ε  | ■    |
| E_ | ζ  | η  | θ  | ι  | κ  | λ  | μ  | ν  | ξ  | ο  | π  | ρ  | σ  | ς  | τ  | ’    |
| F_ | -  | ±  | υ  | φ  | χ  | §  | ψ  | ˆ  | °  | ˆ  | ω  | ü  | ü  | ώ  | ■  | NBSP |

Code Page 39: ISO8859-2 (Central European)

|    | _0   | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 8_ | ▒    | ▒  | ▒  |    | †  | ⌋  | ⌈  | ■  | ©  | ¶  |    | ⌈  | ⌋  | ¢  | ¥  | ⌋  |
| 9_ | Ł    | ⊥  | ⊥  | †  | —  | †  | ■  | ■  | ⋈  | ⌈  | ⋈  | ⌈  | ⌋  | =  | ⌈  | ®  |
| A_ | NBSP | À  | ˘  | Ł  | α  | Ĺ  | Ś  | §  | ˆ  | Š  | Ş  | Ť  | Ž  | -  | Ž  | Ž  |
| B_ | °    | ą  | ˘  | ł  | ’  | Ĳ  | ś  | ˘  | ˘  | š  | ş  | ť  | ž  | ˆ  | ž  | ž  |
| C_ | Ř    | Á  | Â  | Ǻ  | Ä  | Í  | Ć  | Ç  | Č  | É  | Ę  | Ë  | Ě  | Í  | Î  | Ď  |
| D_ | Đ    | Ń  | Ň  | Ó  | Ô  | Õ  | Ö  | ×  | Ř  | Ů  | Ú  | Ů  | Ü  | Ý  | Ť  | ß  |
| E_ | ř    | á  | â  | ǻ  | ä  | í  | ć  | ç  | č  | é  | ę  | ë  | ě  | í  | î  | ď  |
| F_ | đ    | ń  | ň  | ó  | ô  | õ  | ö  | ÷  | ř  | ů  | ú  | ů  | ü  | ý  | ţ  | ˘  |

# WP-K651S Kiosk Thermal Printer

## Code Page 40: ISO8859-15 (Latin 9)

|    | _0          | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 8_ |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 9_ |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| A_ | <u>NBSP</u> | ı  | ¢  | £  | €  | ¥  | Š  | §  | š  | ©  |   | «  | ¬  | -  | ®  | —  |
| B_ | °           | ±  | ²  | ³  | Ž  | µ  | ¶  | ·  | ž  | ¹  | º  | »  | Œ  | œ  | ÿ  | ı  |
| C_ | À           | Á  | Â  | Ã  | Ä  | Å  | Æ  | Ç  | È  | É  | Ê  | Ë  | ì  | í  | î  | ï  |
| D_ | Ð           | Ñ  | Ò  | Ó  | Ô  | Õ  | Ö  | ×  | Ø  | Ù  | Ú  | Û  | Ü  | Ý  | Þ  | ß  |
| E_ | à           | á  | â  | ã  | ä  | å  | æ  | ç  | è  | é  | ê  | ë  | ì  | í  | î  | ï  |
| F_ | ø           | ñ  | ò  | ó  | ô  | õ  | ö  | ÷  | ø  | ù  | ú  | û  | ü  | ý  | þ  | ÿ  |

## Code Page 41: CP1098 (Farsi)

|    | _0 | _1 | _2 | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 8_ |    |    | ،  | ؛  | ؟  | °  | آ  | ل  | ځ  | ا  | ل  | د  | ء  | أ  | ل  | د  |
| 9_ | و  | ئ  | ب  | ب  | پ  | پ  | ت  | ت  | ث  | ث  | ج  | ج  | چ  | چ  | ×  | ح  |
| A_ | ح  | خ  | خ  | د  | ذ  | ر  | ز  | ژ  | س  | س  | ش  | ش  | ص  | ص  | «  | »  |
| B_ | ۰  | ۱  | ۲  | ۳  | ۴  | ۵  | ۶  | ۷  | ۸  | ۹  | ۱۰ | ۱۱ | ۱۲ | ۱۳ | ۱۴ | ۱۵ |
| C_ | ۱۶ | ۱۷ | ۱۸ | ۱۹ | ۲۰ | ۲۱ | ۲۲ | ۲۳ | ۲۴ | ۲۵ | ۲۶ | ۲۷ | ۲۸ | ۲۹ | ۳۰ | ۳۱ |
| D_ | ۳۲ | ۳۳ | ۳۴ | ۳۵ | ۳۶ | ۳۷ | ۳۸ | ۳۹ | ۴۰ | ۴۱ | ۴۲ | ۴۳ | ۴۴ | ۴۵ | ۴۶ | ۴۷ |
| E_ | ۴۸ | ۴۹ | ۵۰ | ۵۱ | ۵۲ | ۵۳ | ۵۴ | ۵۵ | ۵۶ | ۵۷ | ۵۸ | ۵۹ | ۶۰ | ۶۱ | ۶۲ | ۶۳ |
| F_ | ۶۴ | ۶۵ | ۶۶ | ۶۷ | ۶۸ | ۶۹ | ۷۰ | ۷۱ | ۷۲ | ۷۳ | ۷۴ | ۷۵ | ۷۶ | ۷۷ | ۷۸ | ۷۹ |

Code Page 42: CP1118 (Lithuanian)

|    | _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  | ¢                                                                                   | £                                                                                   | ¥                                                                                   | Pt                                                                                  | f                                                                                   |
| A_ | á                                                                                 | í                                                                                 | ó                                                                                 | ú  | ñ  | Ñ  | ª  | º  | ¿  | ¬  | ¬  | $\frac{1}{2}$                                                                       | $\frac{1}{4}$                                                                       | ¡                                                                                   | «                                                                                   | »                                                                                   |
| B_ |  |  |  |    | †  | À  | Č  | £  | È  | ¶  |    | ¶                                                                                   | ¶                                                                                   | ‡                                                                                   | Š                                                                                   | ‡                                                                                   |
| C_ | Ł                                                                                 | ⊥                                                                                 | ⊥                                                                                 | †  | —  | †  | Ų  | Ū  | Ł  | ¶  | ¶  | ¶                                                                                   | ¶                                                                                   | =                                                                                   | ¶                                                                                   | Ž                                                                                   |
| D_ | ą                                                                                 | č                                                                                 | ę                                                                                 | è  | ì  | š  | ų  | ū  | ž  | Ų  | ¶  |  |  |  |  |  |
| E_ | α                                                                                 | β                                                                                 | Γ                                                                                 | π  | Σ  | σ  | μ  | τ  | Φ  | Θ  | Ω  | δ                                                                                   | ∞                                                                                   | φ                                                                                   | ε                                                                                   | ∩                                                                                   |
| F_ | ≡                                                                                 | ±                                                                                 | ≥                                                                                 | ≤  | „  | “  | ÷  | ≈  | °  | •  | ·  | √                                                                                   | n                                                                                   | ²                                                                                   | ■                                                                                   | NBSP                                                                                |

Code Page 43: CP1119 (Lithuanian)

|    | _0                                                                                  | _1                                                                                  | _2                                                                                  | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B                                                                                    | _C                                                                                    | _D                                                                                    | _E                                                                                    | _F                                                                                    |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 8_ | A                                                                                   | Б                                                                                   | В                                                                                   | Г  | Д  | Е  | Ж  | З  | И  | Й  | К  | Л                                                                                     | М                                                                                     | Н                                                                                     | О                                                                                     | П                                                                                     |
| 9_ | Р                                                                                   | С                                                                                   | Т                                                                                   | У  | Ф  | Х  | Ц  | Ч  | Ш  | Щ  | Ъ  | Ы                                                                                     | Ь                                                                                     | Э                                                                                     | Ю                                                                                     | Я                                                                                     |
| A_ | a                                                                                   | б                                                                                   | в                                                                                   | г  | д  | е  | ж  | з  | и  | й  | к  | л                                                                                     | м                                                                                     | н                                                                                     | о                                                                                     | п                                                                                     |
| B_ |  |  |  |    | †  | À  | Č  | £  | È  | ¶  |    | ¶                                                                                     | ¶                                                                                     | ‡                                                                                     | Š                                                                                     | ‡                                                                                     |
| C_ | Ł                                                                                   | ⊥                                                                                   | ⊥                                                                                   | †  | —  | †  | Ų  | Ū  | Ł  | ¶  | ¶  | ¶                                                                                     | ¶                                                                                     | =                                                                                     | ¶                                                                                     | Ž                                                                                     |
| D_ | ą                                                                                   | č                                                                                   | ę                                                                                   | è  | ì  | š  | ų  | ū  | ž  | Ų  | ¶  |  |  |  |  |  |
| E_ | р                                                                                   | с                                                                                   | т                                                                                   | у  | ф  | х  | ц  | ч  | ш  | щ  | ъ  | ы                                                                                     | ь                                                                                     | э                                                                                     | ю                                                                                     | я                                                                                     |
| F_ | Ë                                                                                   | ë                                                                                   | ≥                                                                                   | ≤  | „  | “  | ÷  | ≈  | °  | •  | ·  | √                                                                                     | n                                                                                     | ²                                                                                     | ■                                                                                     | NBSP                                                                                  |

# WP-K651S Kiosk Thermal Printer

## Code Page 44: CP1125 (Ukrainian)

|    | _0                                                                                | _1                                                                                | _2                                                                                | _3 | _4 | _5 | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F   |
|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 8_ | A                                                                                 | Б                                                                                 | В                                                                                 | Г  | Д  | Е  | Ж  | З  | И  | Й  | К  | Л  | М  | Н  | О  | П    |
| 9_ | Р                                                                                 | С                                                                                 | Т                                                                                 | У  | Ф  | Х  | Ц  | Ч  | Ш  | Щ  | Ъ  | Ы  | Ь  | Э  | Ю  | Я    |
| A_ | а                                                                                 | б                                                                                 | в                                                                                 | г  | д  | е  | ж  | з  | и  | й  | к  | л  | м  | н  | о  | п    |
| B_ |  |  |  |    | ┌  | ┐  | └  | ┘  | ┌  | ┐  | └  | ┘  | ┌  | ┐  | └  | ┘    |
| C_ | ┐                                                                                 | ┌                                                                                 | └                                                                                 | ┘  | ┐  | ┌  | └  | ┘  | ┐  | ┌  | └  | ┘  | ┐  | ┌  | └  | ┘    |
| D_ | ┐                                                                                 | ┌                                                                                 | └                                                                                 | ┘  | ┐  | ┌  | └  | ┘  | ┐  | ┌  | └  | ┘  | ┐  | ┌  | └  | ┘    |
| E_ | р                                                                                 | с                                                                                 | т                                                                                 | у  | ф  | х  | ц  | ч  | ш  | щ  | ъ  | ы  | ь  | э  | ю  | я    |
| F_ | Ё                                                                                 | ё                                                                                 | Ґ                                                                                 | ґ  | Є  | є  | І  | і  | Ї  | ї  | ÷  | ±  | №  | ¤  | ■  | NBSP |

## Code Page 45: WCP1250 (Central European)

|    | _0   | _1 | _2 | _3 | _4 | _5  | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|
| 8_ | €    |    | ,  |    | „  | ... | †  | ‡  |    | ‰  | Š  | ‹  | Ś  | Ť  | Ž  | Ž  |
| 9_ |      | ‘  | ’  | “  | ”  | •   | —  | —  |    | ™  | š  | ›  | ś  | ť  | ž  | ž  |
| A_ | NBSP | ˘  | ˘  | Ł  | ł  | Ą   | ą  | §  | ¨  | ©  | Ş  | «  | ¬  | -  | ®  | Ž  |
| B_ | °    | ±  | ˆ  | ł  | ´  | µ   | ¶  | ·  | ¸  | ą  | ş  | »  | Ł  | ˝  | İ  | ž  |
| C_ | Ř    | Á  | Â  | Ǻ  | Ǻ  | Í   | Ć  | Ç  | Č  | É  | Ę  | Ě  | Ě  | Í  | Î  | Ď  |
| D_ | Đ    | Ń  | Ň  | Ó  | Ô  | Õ   | Ö  | ×  | Ř  | Ů  | Ú  | Ů  | Ü  | Ý  | Ť  | ß  |
| E_ | ř    | á  | â  | ǻ  | ǻ  | í   | ć  | ç  | č  | é  | ę  | ě  | ě  | í  | î  | ď  |
| F_ | đ    | ń  | ň  | ó  | ô  | õ   | ö  | ÷  | ř  | ů  | ú  | ů  | ü  | ý  | ț  | ·  |

WP-K651S Kiosk Thermal Printer

Code Page 46: WCP1251 (Cyrillic)

|    | _0          | _1 | _2 | _3 | _4 | _5  | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|-------------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|
| 8_ | Ѡ           | ѡ  | ,  | ѣ  | „  | ... | †  | ‡  | €  | ‰  | Љ  | ‹  | Њ  | Ќ  | Ѥ  | Ѧ  |
| 9_ | ђ           | ‘  | ’  | “  | ”  | •   | —  |    | ™  | љ  | ›  | њ  | ќ  | ћ  | ѧ  | Ѩ  |
| A_ | <u>NBSP</u> | Ў  | ў  | Ј  | Ѡ  | Ґ   | І  | §  | Ё  | ©  | €  | «  | ¬  | -  | ®  | Ї  |
| B_ | °           | ±  | І  | і  | ґ  | μ   | ¶  | ·  | ё  | №  | €  | »  | ј  | Ѕ  | ѕ  | ї  |
| C_ | А           | Б  | В  | Г  | Д  | Е   | Ж  | З  | И  | Й  | К  | Л  | М  | Н  | О  | П  |
| D_ | Р           | С  | Т  | У  | Ф  | Х   | Ц  | Ч  | Ш  | Щ  | Ъ  | Ы  | Ь  | Э  | Ю  | Я  |
| E_ | а           | б  | в  | г  | д  | е   | ж  | з  | и  | й  | к  | л  | м  | н  | о  | п  |
| F_ | р           | с  | т  | у  | ф  | х   | ц  | ч  | ш  | щ  | ъ  | ы  | ь  | э  | ю  | я  |

Code Page 47: WCP1253 (Greek)

|    | _0          | _1 | _2 | _3 | _4 | _5  | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|-------------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|
| 8_ | €           |    | ,  | ƒ  | „  | ... | †  | ‡  |    | ‰  |    | ‹  |    |    |    |    |
| 9_ |             | ‘  | ’  | “  | ”  | •   | —  |    | ™  |    | ›  |    |    |    |    |    |
| A_ | <u>NBSP</u> | ™  | À  | £  | ¤  | ¥   | ¦  | §  | ¨  | ©  |    | «  | ¬  | -  | ®  | —  |
| B_ | °           | ±  | ²  | ³  | ´  | μ   | ¶  | ·  | Έ  | Ή  | Ί  | »  | Ό  | ½  | Υ  | Ω  |
| C_ | ϊ           | Α  | Β  | Γ  | Δ  | Ε   | Ζ  | Η  | Θ  | Ι  | Κ  | Λ  | Μ  | Ν  | Ξ  | Ο  |
| D_ | Π           | Ρ  |    | Σ  | Τ  | Υ   | Φ  | Χ  | Ψ  | Ω  | Ϊ  | Ϋ  | ά  | έ  | ή  | ί  |
| E_ | ϋ           | α  | β  | γ  | δ  | ε   | ζ  | η  | θ  | ι  | κ  | λ  | μ  | ν  | ξ  | ο  |
| F_ | π           | ρ  | ς  | σ  | τ  | υ   | φ  | χ  | ψ  | ω  | ϊ  | ϋ  | ό  | ύ  | ώ  |    |

WP-K651S Kiosk Thermal Printer

Code Page 48: WCP1254 (Turkish)

|    | _0          | _1 | _2 | _3 | _4 | _5  | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|-------------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|
| 8_ | €           |    | ,  | f  | „  | ... | †  | ‡  | ^  | ‰  | Š  | ‹  | Œ  |    |    |    |
| 9_ |             | ‘  | ’  | “  | ”  | •   | —  | —  | ~  | ™  | š  | ›  | œ  |    |    | ÿ  |
| A_ | <u>NBSP</u> | ı  | ¢  | £  | ¤  | ¥   | ¦  | §  | ¨  | ©  | ª  | «  | ¬  | -  | ®  | ¯  |
| B_ | °           | ±  | ²  | ³  | ´  | µ   | ¶  | ·  | ,  | ¹  | º  | »  | ¼  | ½  | ¾  | ¿  |
| C_ | À           | Á  | Â  | Ã  | Ä  | Å   | Æ  | Ç  | È  | É  | Ê  | Ë  | Ì  | Í  | Î  | Ï  |
| D_ | Ğ           | Ñ  | Ò  | Ó  | Ô  | Õ   | Ö  | ×  | Ø  | Ù  | Ú  | Û  | Ü  | İ  | Ş  | ß  |
| E_ | à           | á  | â  | ã  | ä  | å   | æ  | ç  | è  | é  | ê  | ë  | ì  | í  | î  | ï  |
| F_ | ğ           | ñ  | ò  | ó  | ô  | õ   | ö  | ÷  | ø  | ù  | ú  | û  | ü  | ı  | ş  | ÿ  |

Code Page 49: WCP1255 (Hebrew)

|    | _0          | _1 | _2 | _3 | _4 | _5  | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|-------------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|
| 8_ | €           |    | ,  | f  | „  | ... | †  | ‡  | ^  | ‰  |    | ‹  |    |    |    |    |
| 9_ |             | ‘  | ’  | “  | ”  | •   | —  | —  | ~  | ™  |    | ›  |    |    |    |    |
| A_ | <u>NBSP</u> | ı  | ¢  | £  | ¤  | ¥   | ¦  | §  | ¨  | ©  | ×  | «  | ¬  | -  | ®  | ¯  |
| B_ | °           | ±  | ²  | ³  | ´  | µ   | ¶  | ·  | ,  | ¹  | ÷  | »  | ¼  | ½  | ¾  | ¿  |
| C_ | :           | ;  | ;  | ;  | :  | ;   | ;  | -  | ;  | :  |    | ;  | :  | :  | -  | -  |
| D_ | ı           | ◊  | ◊  | :  |    | ıı  | ıı | ,  | ”  |    |    |    |    |    |    |    |
| E_ | א           | ב  | ג  | ד  | ה  | ו   | ז  | ח  | ט  | י  | ך  | כ  | ל  | ם  | מ  | ן  |
| F_ | נ           | ס  | ע  | ף  | פ  | ץ   | צ  | ק  | ר  | ש  | ת  |    |    |    |    |    |

Code Page 50: WCP1256 (Arabic)

|    | _0          | _1 | _2 | _3 | _4 | _5  | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|-------------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|
| 8_ | €           | پ  | ,  | f  | „  | ... | †  | ‡  | ^  | ‰  | ٹ  | ‹  | Œ  | چ  | ژ  | ڈ  |
| 9_ | گ           | ‘  | ’  | “  | ”  | •   | —  | —  | ک  | ™  | ڑ  | ›  | œ  |    |    | ں  |
| A_ | <u>NBSP</u> | ،  | ¢  | £  | ¤  | ¥   |    | §  | ¨  | ©  | ھ  | «  | ¬  | -  | ®  | —  |
| B_ | °           | ±  | ²  | ³  | ´  | µ   | ¶  | ·  | ,  | ¹  | ؛  | »  | ¼  | ½  | ¾  | ؟  |
| C_ | ،           | ء  | آ  | أ  | ؤ  | إ   | ئ  | ا  | ب  | ة  | ت  | ث  | ج  | ح  | خ  | د  |
| D_ | ذ           | ر  | ز  | س  | ش  | ص   | ض  | ×  | ط  | ظ  | ع  | غ  | .  | ف  | ق  | ك  |
| E_ | à           | ل  | â  | م  | ن  | ه   | و  | ç  | è  | é  | ê  | ë  | ى  | ي  | î  | ï  |
| F_ | °           | °  | °  | °  | ô  | °   | °  | ÷  | °  | ù  | °  | û  | ü  |    |    | ل  |

Code Page 51: WCP1257 (Baltic)

|    | _0          | _1 | _2 | _3 | _4 | _5  | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|-------------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|
| 8_ | €           | Ł  | ,  | ƒ  | „  | ... | †  | ‡  |    | ‰  |    | ‹  |    | ¨  | ˘  | „  |
| 9_ |             | ‘  | ’  | “  | ”  | •   | —  | —  |    | ™  |    | ›  |    | —  | ˙  |    |
| A_ | <u>NBSP</u> |    | ¢  | £  | ¤  |     |    | §  | Ø  | ©  | Ŕ  | «  | ¬  | -  | ®  | Æ  |
| B_ | °           | ±  | ²  | ³  | ´  | µ   | ¶  | ·  | ø  | ¹  | ŗ  | »  | ¼  | ½  | ¾  | æ  |
| C_ | Ą           | Į  | Ā  | Ć  | Ä  | Å   | Ę  | Ē  | Č  | É  | Ž  | È  | Ģ  | Ķ  | Ī  | Ļ  |
| D_ | Š           | Ń  | Ņ  | Ó  | Ō  | Õ   | Ö  | ×  | Ų  | Ł  | Ś  | Ū  | Ü  | Ž  | Ž  | ß  |
| E_ | ą           | į  | ā  | ć  | ä  | å   | ę  | ē  | č  | é  | ž  | è  | ģ  | ķ  | ī  | ļ  |
| F_ | š           | ń  | ņ  | ó  | ō  | õ   | ö  | ÷  | ų  | ł  | ś  | ū  | ü  | ž  | ž  | ˙  |

Code Page 52: WCP1258 (Vietnamese)

|    | _0          | _1 | _2 | _3 | _4 | _5  | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|-------------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|
| 8_ | €           |    | ,  | f  | „  | ... | †  | ‡  | ^  | ‰  |    | ‹  | Œ  |    |    |    |
| 9_ |             | ‘  | ’  | “  | ”  | •   | —  | —  | ~  | ™  |    | ›  | œ  |    |    | ÿ  |
| A_ | <u>NBSP</u> | ı  | ¢  | £  | ¤  | ¥   | ¦  | §  | ¨  | ©  | ª  | «  | ¬  | -  | ®  | ¯  |
| B_ | °           | ±  | ²  | ³  | ´  | µ   | ¶  | ·  | ,  | ¹  | º  | »  | ¼  | ½  | ¾  | ¿  |
| C_ | À           | Á  | Â  | Ã  | Ä  | Å   | Æ  | Ç  | È  | É  | Ê  | Ë  | Ì  | Í  | Î  | Ï  |
| D_ | Ð           | Ñ  | Ò  | Ó  | Ô  | Õ   | Ö  | ×  | Ø  | Ù  | Ú  | Û  | Ü  | Ý  | ~  | ß  |
| E_ | à           | á  | â  | ã  | ä  | å   | æ  | ç  | è  | é  | ê  | ë  | ì  | í  | î  | ï  |
| F_ | đ           | ñ  | .  | ó  | ô  | õ   | ö  | ÷  | ø  | ù  | ú  | û  | ü  | ý  | đ  | ÿ  |

Code Page 53: KZ1048 (Kazakhstan)

|    | _0          | _1 | _2 | _3 | _4 | _5  | _6 | _7 | _8 | _9 | _A | _B | _C | _D | _E | _F |
|----|-------------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|
| 8_ | Ђ           | Ѓ  | ,  | ѓ  | „  | ... | †  | ‡  | €  | ‰  | Љ  | ‹  | Њ  | ќ  | ћ  | џ  |
| 9_ | ђ           | ‘  | ’  | “  | ”  | •   | —  | —  |    | ™  | љ  | ›  | њ  | қ  | һ  | џ  |
| A_ | <u>NBSP</u> | Ў  | ў  | Ә  | Ғ  | Ө   | І  | §  | Ё  | ©  | Ғ  | «  | ¬  | -  | ®  | Ү  |
| B_ | °           | ±  | І  | і  | ө  | µ   | ¶  | ·  | ё  | №  | ғ  | »  | ө  | Ғ  | ң  | ү  |
| C_ | А           | Б  | В  | Г  | Д  | Е   | Ж  | З  | И  | Й  | К  | Л  | М  | Н  | О  | П  |
| D_ | Р           | С  | Т  | У  | Ф  | Х   | Ц  | Ч  | Ш  | Щ  | Ъ  | Ы  | Ь  | Э  | Ю  | Я  |
| E_ | а           | б  | в  | г  | д  | е   | ж  | з  | и  | й  | к  | л  | м  | н  | о  | п  |
| F_ | р           | с  | т  | у  | ф  | х   | ц  | ч  | ш  | щ  | ъ  | ы  | ь  | э  | ю  | я  |