

**BIXOLON SAMSUNG**  
**Windows Driver**  
**User's Manual**  
Ver. 1.0.2

**Customer Display**

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**BCD - 1000**

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## 1. Foreword

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This manual explains how to install and use Windows printer drivers for BCD-1000 Customer Display. These drivers make it possible for Windows applications to display to BCD-1000 Customer Display. Please read this manual carefully so that you can take full advantage of the driver's capabilities.

## 2. Operating Environment

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The BCD-1000 Customer Display printer drivers can run on any of the following operating systems.

- Microsoft Windows 95
- Microsoft Windows 98
- Microsoft Windows ME
- Microsoft Windows NT 4.0
- Microsoft Windows 2000
- Microsoft Windows XP
- Microsoft Windows 2003 Server
- Microsoft Windows Embedded For Point Of Service

## 3. Driver Settings

### 3.1 Printer Settings

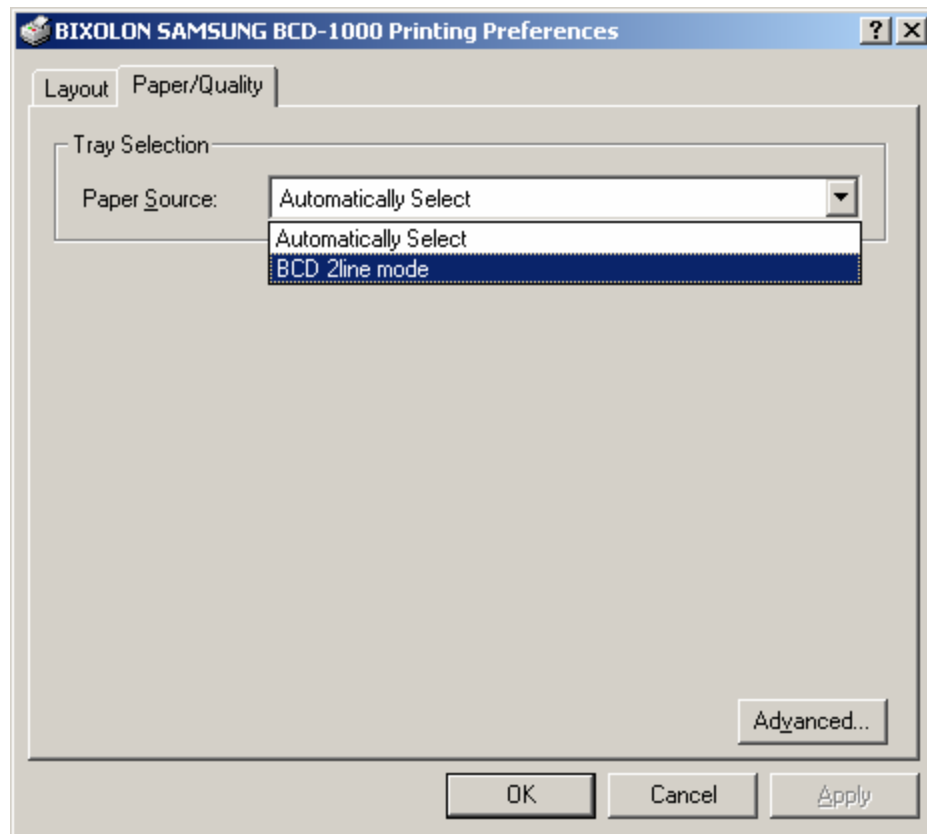
This section is explained the way of following Printer Settings.

- Print Quality(Brightness of Customer Display)
- Paper Source
- Orientation

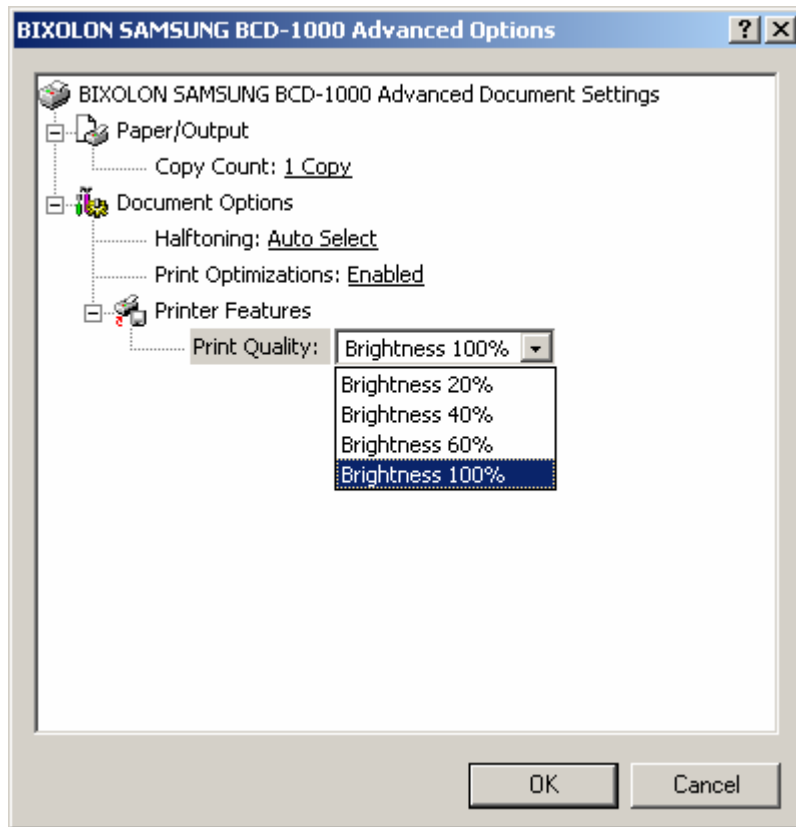
In Windows 95/98/ME, this can be set in the printer's "Properties" dialog.

In Windows NT4.0, it can be set in the printer's "Document Default" dialog.

In Windows 2000/XP/2003 Server/WEPOS, it can be set in the printer's "Printing Preferences" dialog.



<Paper Source Setting>



<Brightness Setting>

## 4. Main Specifications

### 4.1 BCD-1000 Printer Driver Specification

	Specification
Driver name	BIXOLON SAMSUNG BCD-1000
Supported Printer font name	BCD 1st Line BCD 2nd Line
Supported Printer font name for special function	FontControl
Supported resolution	72 x 72
Supported paper size	BCD display size
Supported paper source	BCD 2line mode
Supported print Quality	Brightness 20% Brightness 40% Brightness 60% Brightness 100%

Driver Font	Sizes
BCD 1st Line	7
BCD 2nd Line	7
FontControl	7
FontControlA	7

### 4.2 Special Functions

The BCD-1000 Customer Display can be used to execute a variety of special non-displaying functions, as indicated in the table below. You can execute these functions by selecting the Customer Display's special "FontControl" font and then sending the appropriate character code to the driver. ( Note that you cannot use the "FontControl" font to display normal characters. )

Character	Special Function	Note
<b>a</b>	Clear screen (CLS)	
<b>b</b>	Clear 1 <sup>st</sup> line (CAN for 1 <sup>st</sup> line)	
<b>c</b>	Clear 2 <sup>nd</sup> line (CAN for 2 <sup>nd</sup> line)	
<b>d</b>	Screen is always lighting.	
<b>e</b>	Screen is blinking at 10x50msec intervals.	
<b>f</b>	Screen is blinking at 20x50msec intervals.	
<b>g</b>	Screen is blinking at 40x50msec intervals.	
<b>h</b>	Screen is blinking at 60x50msec intervals.	
<b>i</b>	Put out light with saving displayed contents.	
<b>j</b>	Set and display a counter time. (US T h m)	
<b>k</b>	Display a counter. (US U)	
<b>l</b>	Enable reversed character. (US r n)	
<b>m</b>	Disable reversed character. (US r n)	
<b>n</b>	Define macro process. (US :)	
<b>o</b>	Do macro process. (US ^ n m, n =5 m=60)	

## 4.3 Extended Special Functions

“FontControlA” font is provided as an inherent special function. By using with a command defined file (BCD.ini), you can designate a desired command string as the “FontControlA” font arbitrary character (a character code with a range between 20 to 7F). Details on how to use this are as follows: (Do not use “Read-only” file attribute.)

- FontControlA command defined file:  
[File Name] BCD.ini  
[Installation destination] The printer processor folder for each OS:  
Windows 9x : The OS System folder  
Windows NT4.0/2K/XP/2003, WePOS: The OS System32\Spool\Prtrprocs\W32x86 folder
- Description method:  
Write descriptions similar to normal INI file format.  
[Section Name]  
Key\_1=Data\_1  
Key\_2=Data\_2

Specify the Customer Display name as the section name.  
E.g. [BCD-1000]

Specify each key in a hexadecimal character code corresponding to FontControlA font.  
E.g. When “A” is specified for FontcontrolA font, write the key as 41=.

\* The range that can be specified for each key is 20 to 7F.

Specify each data as a hexadecimal command corresponding to the character code specified in FontcontrolA font.  
E.g. When you want to send the initialization command (ESC @), write the data as 1B40.

- Sample description of an INI file:  
[BCD-1000]  
61=1F3AOC1F4500...  
62=OC616263

## 4.4 Resolutions

The resolution settings supported by BCD-1000 Customer Display are as follows

- 72 × 72

Note : Graphic data is not displayed.

## 5. Controlling the Printer from VB

This section shows how you can control the BCD-1000 Customer Display using Visual Basic (Version 6.0). Note that the BCD-1000 Customer Display printer drivers include sample Visual Basic programs that provide additional examples.

### 5.1 Selecting the Printer Driver

The following code establishes the specified printer driver as your "default printer."

#### ◆ VISUAL BASIC

```
For Each prnPrinter In Printers
    If prnPrinter.DeviceName = "BIXOLON SAMSUNG BCD-1000" Then
        Set Printer = prnPrinter
        Exit For
    End If
Next
```

### 5.2 Displaying Text

The following code displays a text string using a driver font. Each string gives the name and size of the font being used.

#### ◆ VISUAL BASIC

```
'Print in printer font
Printer.FontSize = 7
Printer.FontName = "BCD 1st Line"
Printer.Print "BCD 1st Line"
Printer.EndDoc
```



## 5.3 Blinking the screen

The next example shows how to blink the screen at the desired interval.

### ◆ VISUAL BASIC

```
'Set up the control font.  
Printer.FontSize = 7  
Printer.FontName = "FontControl"  
  
Printer.Print "e"  
'Use special-function character to blink the screen.  
'e: Screen is blinking at 10x50msec intervals.  
'f: Screen is blinking at 20x50msec intervals.  
'g: Screen is blinking at 40x50msec intervals.  
'h: Screen is blinking at 60x50msec intervals.  
Printer.EndDoc
```

## 5.4 Clearing the screen

The next example shows how to clear the screen.

### ◆ VISUAL BASIC

```
'Set up the control font.  
Printer.FontSize = 7  
Printer.FontName = "FontControl"  
Printer.Print "a".  
Printer.EndDoc
```

## 6. Using the Printer Driver from WordPad

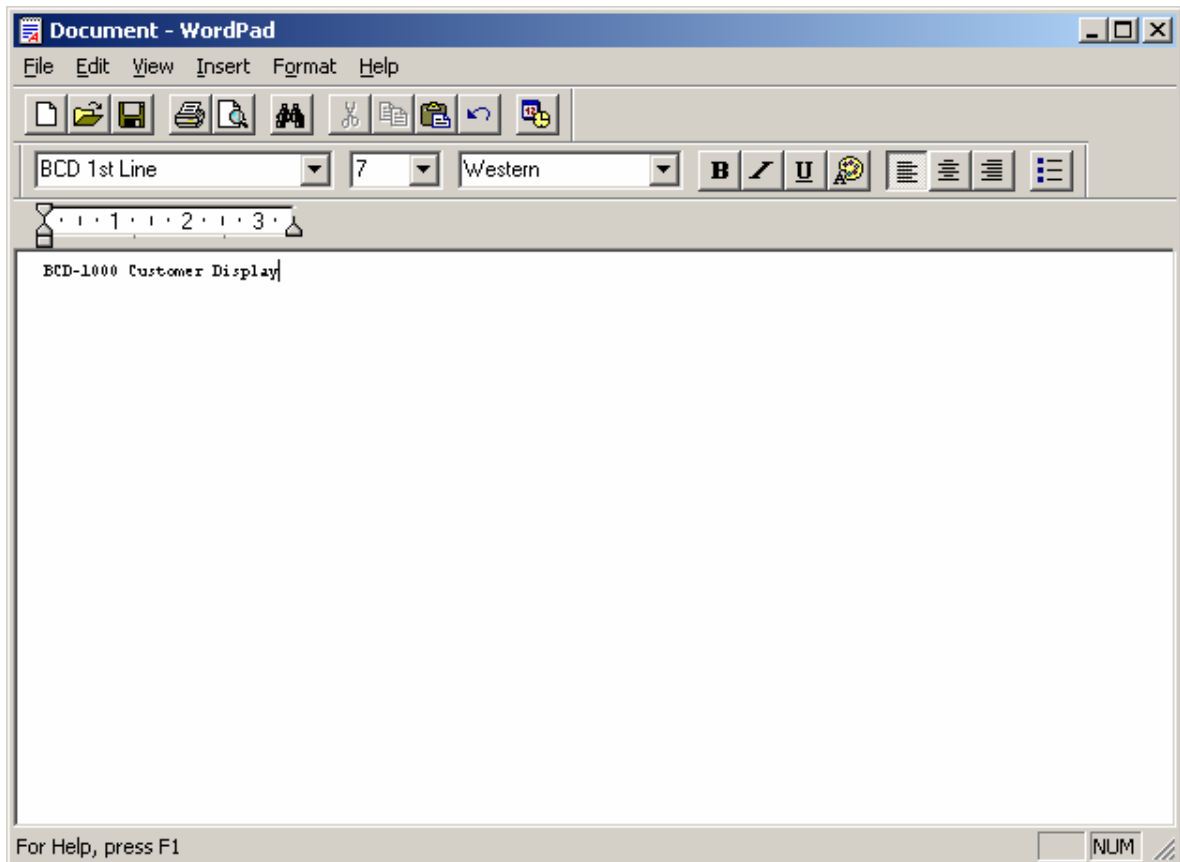
### 6.1 WordPad Environment

WordPad is more adequate to test printer than Microsoft Word. Make it sure that SRP-350plus has been chosen as default printer and then go further with WordPad like below. Start up WordPad, and enter appropriate settings for the follows.

- Size        [\[ Refer to Section 4.1, "Paper Size" \]](#)
- Source     [\[ Refer to Section 4.1, "Paper Source" \]](#)

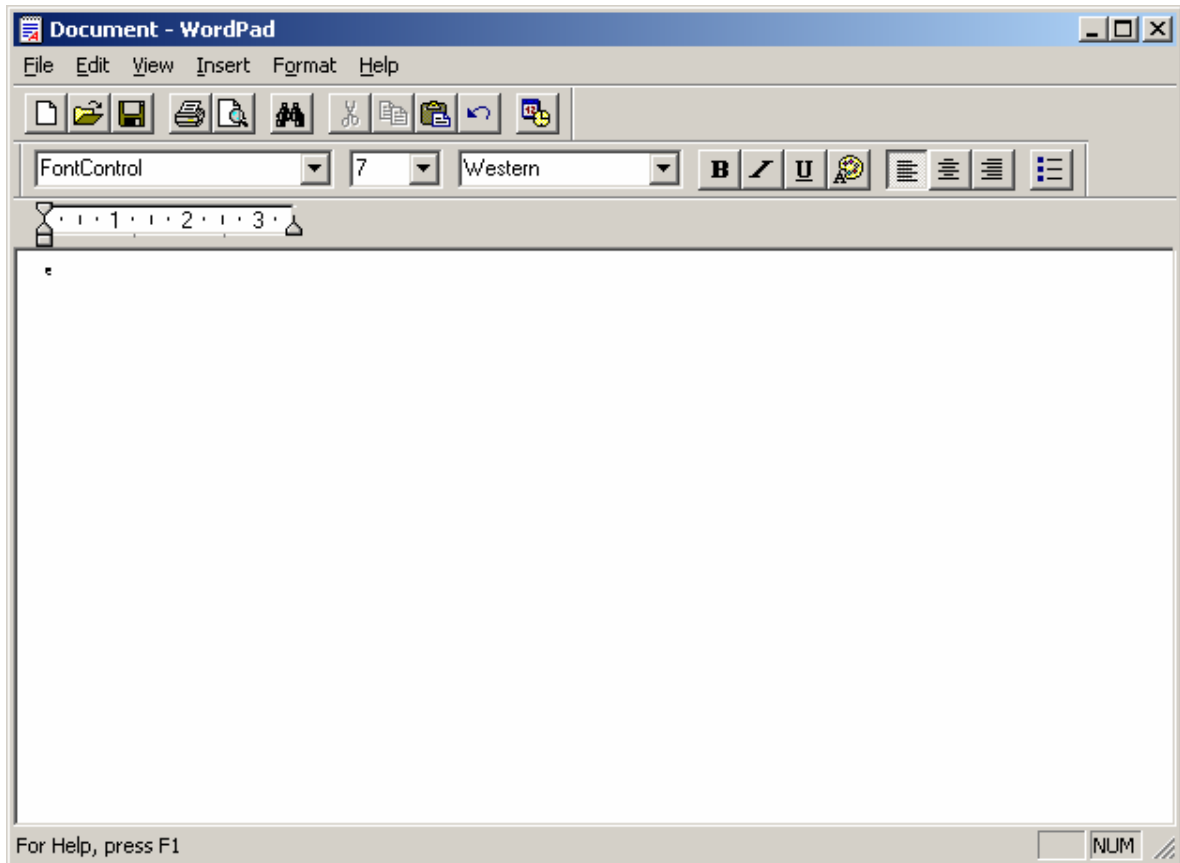
### 6.2 Displaying Text

Use the following procedure to generate a printout from WordPad.



1. Select the font you wish to use from the font list.
2. Select the font size you wish use from the font-size list.
3. Type in some text into the WordPad text-input area.
4. Open the File menu, and click on Print.

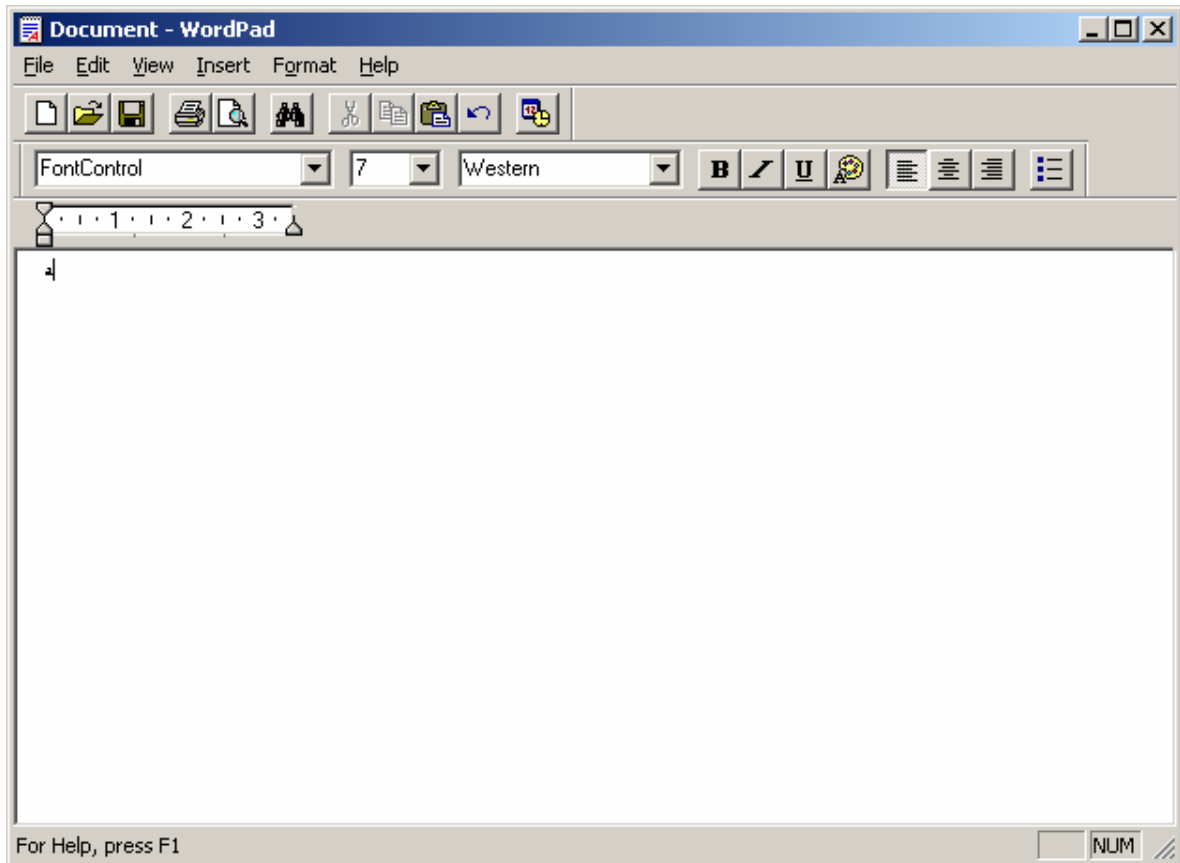
## 6.3 Blinking the screen



1. Select the "FontControl" font from the font list.
2. Set the font size to 7
3. Type an "e" into the WordPad text-input area.
4. Open the File menu, and click on Print.

Clicking on Print will cause screen to be blinked at 10x50msec intervals. By changing the character that you input at Step 3, you can select a different interval. Refer to Section 4.2, "Special Functions," for a listing of characters and their functions.

## 6.4 Clearing the screen



1. Select the "FontControl" font from the font list.
2. Set the font size to 7
3. Type in an "a"
4. Open the File menu, and click on Print.

## 7. BCD-1000 Printer Properties

### 7.1 About



- Customer Display model and version