

BIXOLON SAMSUNG
Windows Driver
User's Manual
Ver. 3.1.4

Printer Model

SRP-370

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1. Foreword

This manual explains how to install and use Windows printer drivers for BIXOLON SAMSUNG SRP-370 printers. These drivers make it possible for Windows applications to print to BIXOLON SAMSUNG SRP-370 printers. Please read this manual carefully so that you can take full advantage of the driver's capabilities.

2. Operating Environment

The BIXOLON SAMSUNG SRP-370 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. Printer Settings

3.1 Printer Settings

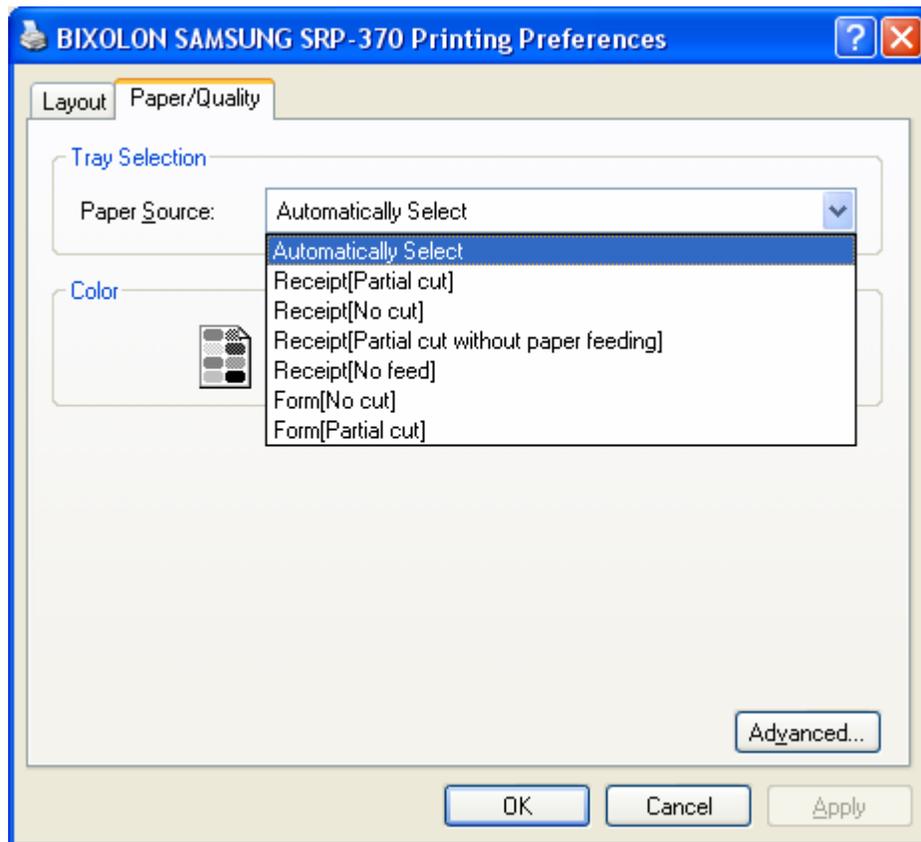
This section is explained the way of following Printer Settings.

- Printer Resolution
- Paper Size
- Paper Source(Cutting Option)
- Orientation

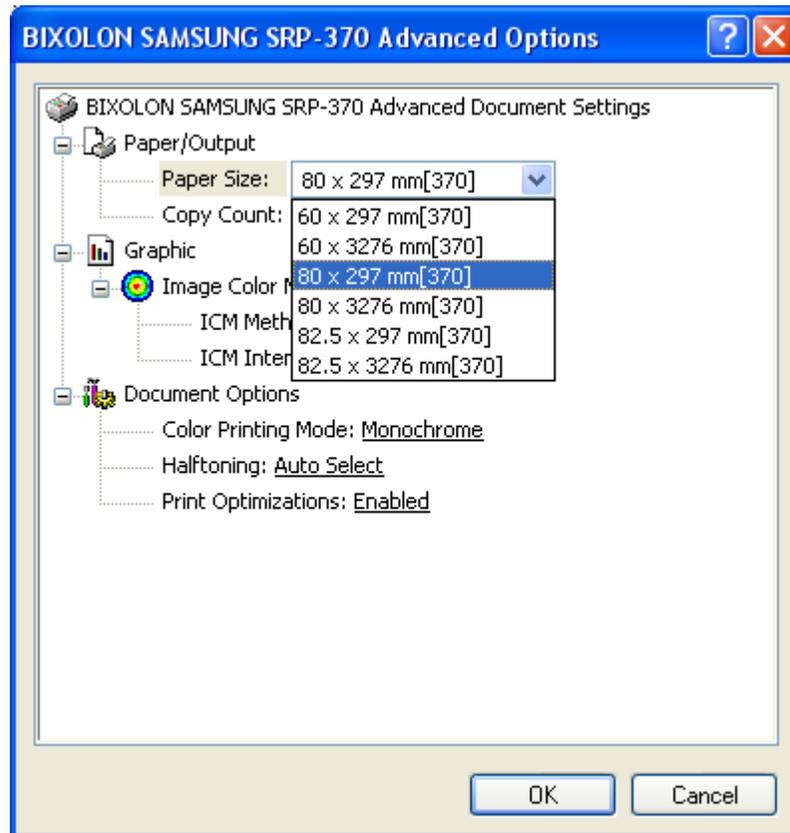
In Windows 95/98/ME, this can be set in the printer's "Properties" dialog.

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>



<Paper Size Setting>

4. Main Specifications

4.1 Printer Fonts

These drivers support use of printer fonts as well as Windows fonts. Use of printer fonts permits faster printing. Available printer fonts are listed below.

“Built-in fonts of a printer” can be specified with the application programs. The “built-in fonts” are as follows.

- Printer Font (type A, Large)
- Printer Font (type B, Small)

The font names what the user can choose in to the application are as follows.

2 types of character-height can be chosen in each font.

Two kinds of the FonAXxX [Ext.] font and the FonAXxX. The character code of 128 bytes of 80H - FFH varies in the difference in these printer fonts. A **FonAXxX font** supports ANSI character code(Code Page 16 : 1252). And, a **FonAXxX [Ext.] font** supports IBM expansion character code(Code Page 0 : 437). A **FonAXxX [255]** font supports space page.(Code Page 255).

| Printer Fonts | | | Character size(dot) | Sizes (point) |
|---------------|-----------------|---------------|---------------------|---------------|
| FontA1x1 | FontA1x1[Ext.] | FontA1x1[255] | FontA1x1(12x24) | 9.5 |
| FontA1x2 | FontA1x2[Ext.] | FontA1x1[255] | FontA1x2(12x48) | 19 |
| FontA2x1 | FontA2x1[Ext.] | FontA1x1[255] | FontA2x1(24x24) | 9.5 |
| FontA2x2 | FontA2x2[Ext.] | FontA1x1[255] | FontA2x2(24x48) | 19 |
| FontA2x4 | FontA2x4[Ext.] | FontA1x1[255] | FontA2x4(24x96) | 38.5 |
| FontA4x2 | FontA4x2[Ext.] | FontA1x1[255] | FontA4x2(48x48) | 19 |
| FontA4x4 | FontA4x4[Ext.] | FontA1x1[255] | FontA4x4(48x96) | 38.5 |
| FontA4x8 | FontA4x8[Ext.] | FontA1x1[255] | FontA4x8(48x192) | 77 |
| FontA8x4 | FontA8x4[Ext.] | FontA1x1[255] | FontA8x4(96x96) | 38.5 |
| FontA8x8 | FontA8x8 [Ext.] | FontA1x1[255] | FontA8x8(96x192) | 77 |
| FontB1x1 | FontB1x1[Ext.] | FontB1x1[255] | FontB1x1(9x17) | 7 |
| FontB1x2 | FontB1x2[Ext.] | FontB1x1[255] | FontB1x2(9x34) | 13.5 |
| FontB2x1 | FontB2x1[Ext.] | FontB1x1[255] | FontB2x1(18x17) | 7 |
| FontB2x2 | FontB2x2[Ext.] | FontB1x1[255] | FontB2x2(18x34) | 13.5 |
| FontB2x4 | FontB2x4[Ext.] | FontB1x1[255] | FontB2x4(18x68) | 27 |
| FontB4x2 | FontB4x2[Ext.] | FontB1x1[255] | FontB4x2(36x34) | 13.5 |
| FontB4x4 | FontB4x4[Ext.] | FontB1x1[255] | FontB4x4(36x68) | 27 |
| FontB4x8 | FontB4x8[Ext.] | FontB1x1[255] | FontB4x8(36x136) | 54.5 |
| FontB8x4 | FontB8x4[Ext.] | FontB1x1[255] | FontB8x4(72x68) | 27 |
| FontB8x8 | FontB8x8[Ext.] | FontB1x1[255] | FontB8x8(72x136) | 54.5 |

| Printer font for special function | Function | Size(pont/dot) |
|-----------------------------------|---|-----------------|
| FontControl | Open Drawer 1/2 Cut receipt Cut receipt(without paper feeding) Justification(Left/Center/Right) Output HT,Output LF, Output CR Barcode printing Print NV bit image Print the NV graphics data defined by the key codes | (8.5 / 12x24) |

4.2 Special Functions

The SRP-370 Printer can be used to execute a variety of special non-printing functions, as indicated in the table below.

You can execute these functions by selecting the printer's special "FontControl" font and then sending the appropriate character code to the driver. (Note that you cannot use the "FontControl" font to print normal characters.)

| Character | Special Function | Note |
|-----------|---|------|
| 5 | HT is output | |
| 6 | LF is output | |
| 7 | CR is output | |
| a | Open Drawer 2 (50ms drive pulse width) | |
| b | Open Drawer 2 (100ms drive pulse width) | |
| c | Open Drawer 2 (150ms drive pulse width) | |
| d | Open Drawer 2 (200ms drive pulse width) | |
| e | Open Drawer 2 (250ms drive pulse width) | |
| g | Cut Receipt (partial cut) without paper feeding | |
| i | Print the NV graphics data defined by the key code 0 and 0 in the Double Height Double Width mode | |
| j | Print the NV graphics data defined by the key code 0 and 1 in the Double Height Double Width mode | |
| k | Print the NV graphics data defined by the key code 0 and 2 in the Double Height Double Width mode | |
| l | Print the NV graphics data defined by the key code 0 and 3 in the Double Height Double Width mode | |
| m | Print the NV graphics data defined by the key code 0 and 4 in the Double Height Double Width mode | |
| p | HRI characters are not added to the bar code | |
| q | HRI characters are added at the top of the bar code using Font A | |
| r | HRI characters are added at the bottom of the bar code using Font A | |
| s | HRI characters are added at the top of the bar code using Font B | |
| t | HRI characters are added at the bottom of the bar code using Font B | |
| w | Text is aligned left | |
| x | Text is centered | |
| y | Text is aligned right | |
| A | Open Drawer 1 (50ms drive pulse width) | |
| B | Open Drawer 1 (100ms drive pulse width) | |
| C | Open Drawer 1 (150ms drive pulse width) | |
| D | Open Drawer 1 (200ms drive pulse width) | |
| E | Open Drawer 1 (250ms drive pulse width) | |
| G | NV bit image No 1 is printed in the Normal mode | |
| H | NV bit image No 2 is printed in the Normal mode | |
| I | NV bit image No 3 is printed in the Normal mode | |
| J | NV bit image No 4 is printed in the Normal mode | |
| K | NV bit image No 5 is printed in the Normal mode | |
| P | Cut Receipt (partial cut) | |

| | | |
|----------|---|--|
| R | Print the NV graphics data defined by the key code 0 and 0 in Normal mode | |
| S | Print the NV graphics data defined by the key code 0 and 1 in Normal mode | |
| T | Print the NV graphics data defined by the key code 0 and 2 in Normal mode | |
| U | Print the NV graphics data defined by the key code 0 and 3 in Normal mode | |
| V | Print the NV graphics data defined by the key code 0 and 4 in Normal mode | |
| [| NV bit image No 1 is printed in the Double Height Double Width mode | |
|] | NV bit image No 2 is printed in the Double Height Double Width mode | |
| ^ | NV bit image No 3 is printed in the Double Height Double Width mode | |
| _ | NV bit image No 4 is printed in the Double Height Double Width mode | |
| ` | NV bit image No 5 is printed in the Double Height Double Width mode | |

4.3 Resolutions

The resolution settings supported by SRP-370 printer are as follows

- 180 × 180

4.4 Paper Sizes

The paper sizes supported by SRP-370 printer are as follows.

- 82.5 × 3276 mm[370]
- 82.5 × 297 mm[370]
- 80 × 3276 mm[370]
- 80 × 297 mm[370]
- 60 × 3276 mm[370]
- 60 × 297 mm[370]
- Custom Size (Windows 9x support)

The following table shows the recommended margins for SRP-370 printer. Refer to this table when setting margins from your printing applications.

| Printer | Margins | | | | Printer Area |
|---------|-----------|------------|----------|-------------|--------------|
| | Left [mm] | Right [mm] | Top [mm] | Bottom [mm] | Width [mm] |
| SRP-370 | 0 | 0 | 0 | 0 | 82.5 |
| SRP-370 | 0 | 0 | 0 | 0 | 80 |
| SRP-370 | 0 | 0 | 0 | 0 | 60 |

4.5 Printing Bar Codes

The paper sizes supported by SRP-370 printer are as follows.

In this driver, a printer font for printing bar code is also provides. Select the printer font corresponding to the bar code type to be printed, then simply enter the code to print bar code. Input codes are displayed in text format. Printing of bar codes with HRI characters included can also be done.

When choosing printer font Code128, the code set selection character (which is “{A”, “{B”, “{C}”} must be always specified at the head of the text.
For example, specify “{B1234”, when printing letter “1234”.

| Printer Font Name | Size | Supported Characters |
|-------------------|-------------|--|
| Codabar | 20/40/60/80 | Numeric: 0~9 Symbols: \$, +, -, ., /, : Letters: A~D |
| Code39 | 20/40/60/80 | Numeric: 0~9 Symbols: \$, +, -, ., / Letters: A~Z |
| JAN13(EAN) | 20/40/60/80 | Numeric: 0~9 |
| JAN8(EAN) | 20/40/60/80 | Numeric: 0~9 |
| ITF | 20/40/60/80 | Numeric: 0~9 |
| UPC-A | 20/40/60/80 | Numeric: 0~9 |
| UPC-E | 20/40/60/80 | Numeric: 0~9 |
| Code93 | 20/40/60/80 | ASCII CODE: 0~127 |
| Code128 | 20/40/60/80 | ASCII CODE: 0~127 |

4.6 Printing Two-dimensional Codes

This driver also provides fonts for printing two-dimensional codes. Select the printer font corresponding to the bar code type to be printed, then simply enter the code to print two-dimensional bar code.

| Font Name |
|-----------|
| PDF417 |
| QR Code |

5. Controlling the Printer from VB

This section shows how you can control the SRP-370 Printer using Visual Basic (Version 6.0). Note that the SRP-370 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 SRP-370" Then
    Set Printer = prnPrinter
    Exit For
  End If
Next
```

5.2 Printing Text

The following code prints a text string using a Windows font, and then prints another text string using a printer font. Each string gives the name and size of the font being used.

◆ VISUAL BASIC

```
'Print in Windows font
Printer.FontSize = 9
Printer.FontName = "Arial"
Printer.Print "Arial"

'Print in printer font
Printer.FontSize = 9.5
Printer.FontName = "FontA1x1"
Printer.Print "FontA1x1"
Printer.EndDoc
```

5.3 Opening the Cash Drawer

The next example shows how to open the desired cash drawer at the desired speed.

◆ VISUAL BASIC

```
'Set up the control font.  
Printer.FontSize = 9.5  
Printer.FontName = "FontControl"  
  
Printer.Print "A"  
'Use special-function character to open the cash drawer.  
'A: Open drawer 1 at 50ms  
'B: Open drawer 1 at 100ms  
'C: Open drawer 1 at 150ms  
'D: Open drawer 1 at 200ms  
'E: Open drawer 1 at 250ms  
'a: Open drawer 2 at 50ms  
'b: Open drawer 2 at 100ms  
'c: Open drawer 2 at 150ms  
'd: Open drawer 2 at 200ms  
'e: Open drawer 2 at 250ms  
Printer.EndDoc
```

5.4 Cutting the Paper

The following code causes the printer to cut the paper.

◆ VISUAL BASIC

```
'Set up the control font.  
Printer.FontSize = 9.5  
Printer.FontName = "FontControl"  
Printer.Print "P".  
'Use special-function character to cut the paper  
'P: Partial cut  
'g: Partial cut without paper feeding  
Printer.EndDoc
```

5.5 Bar Code Printing

The following code causes the printer to print Bar Code.

◆ **VISUAL BASIC**

```
'Print Bar Code.  
Printer.FontSize = 20  
Printer.FontName = "JAN8(EAN)"  
Printer.Print "1234567".  
Printer.EndDoc
```

5.6 Two-dimensional Codes Printing

The following code causes the printer to print Two-dimensional Codes.

◆ **VISUAL BASIC**

```
'Print Two-dimensional Codes.  
Printer.FontSize = 9.5  
Printer.FontName = "PDF417"  
Printer.Print "Print Test PDF417".  
Printer.EndDoc
```

6. Using the SRP-370 Printer from WordPad

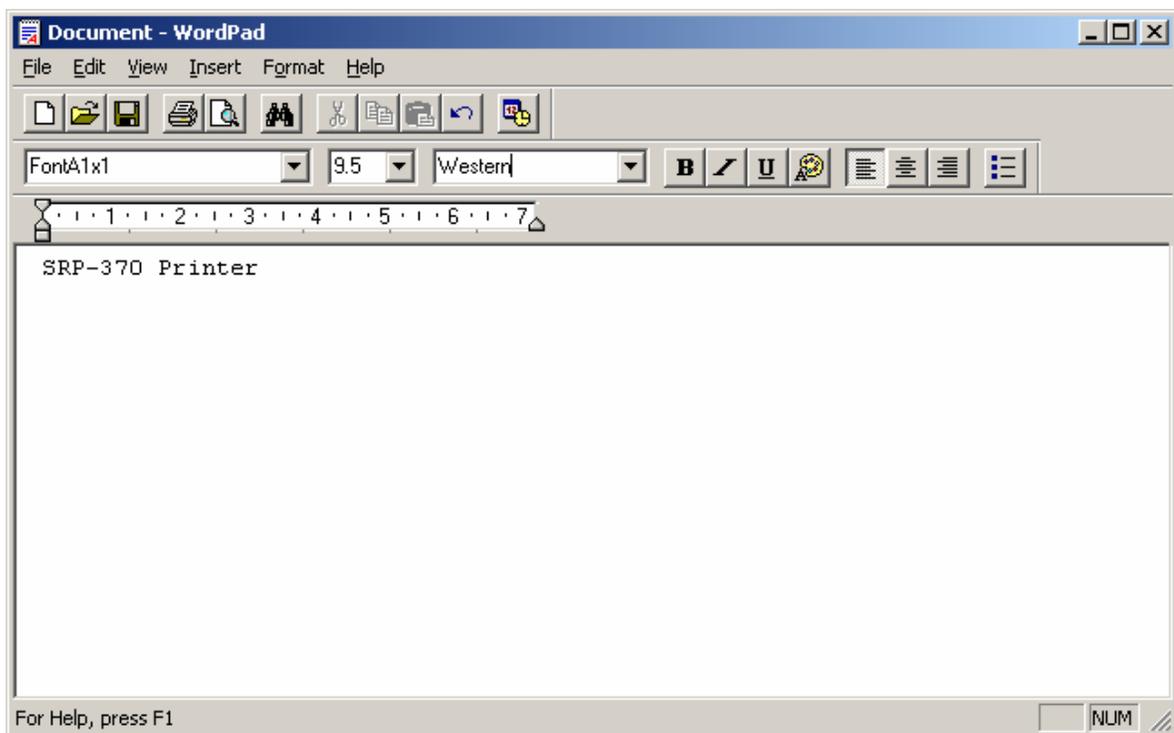
6.1 WordPad Environment

WordPad is more adequate to test printer than Microsoft Word. Make it sure that SRP-370 has been chosen as default printer and than go further with WordPad like below. Start up WordPad, and enter appropriate settings for the follows.

- Size [Refer to Section 4.5, "Paper Sizes"]
- Resolution [Refer to Section 4.4, "Resolutions"]
- Margins [Refer to Section 4.5, "Paper Sizes"]

6.2 Printing Text

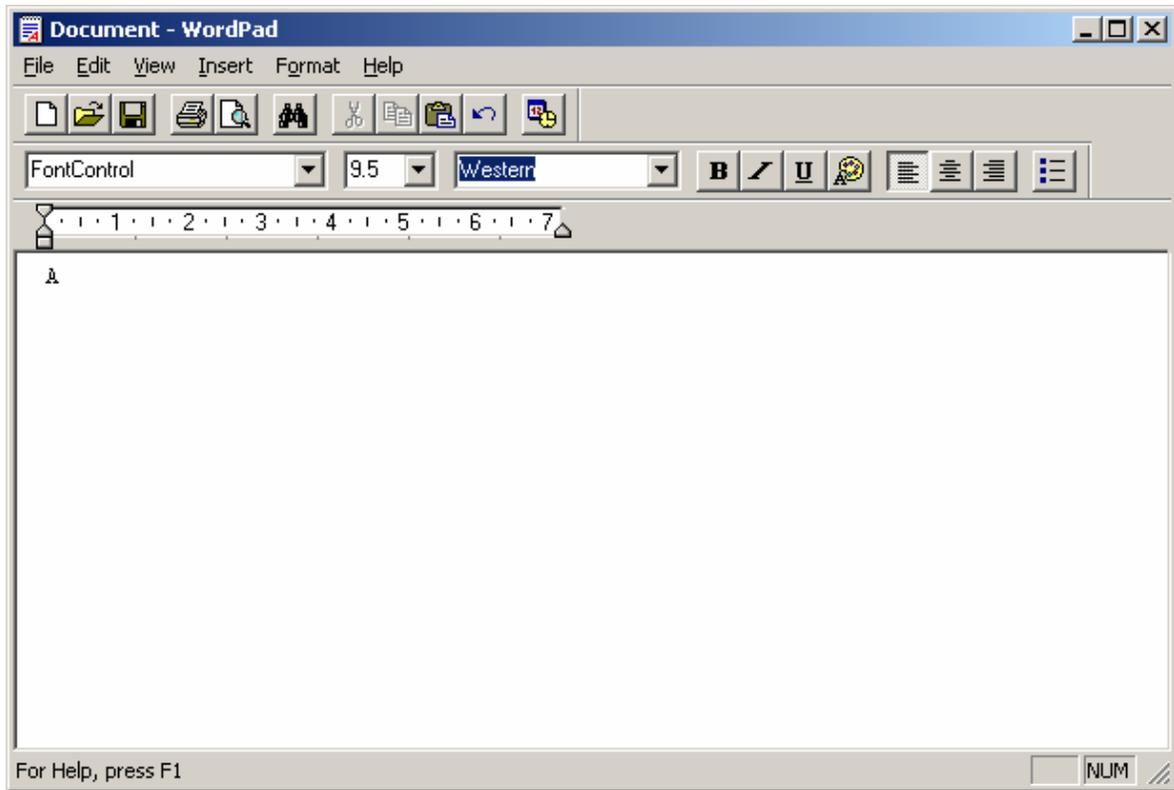
Use the following procedure to generate a printout from WordPad.



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.

For fastest printing, select a printer font form the font list.

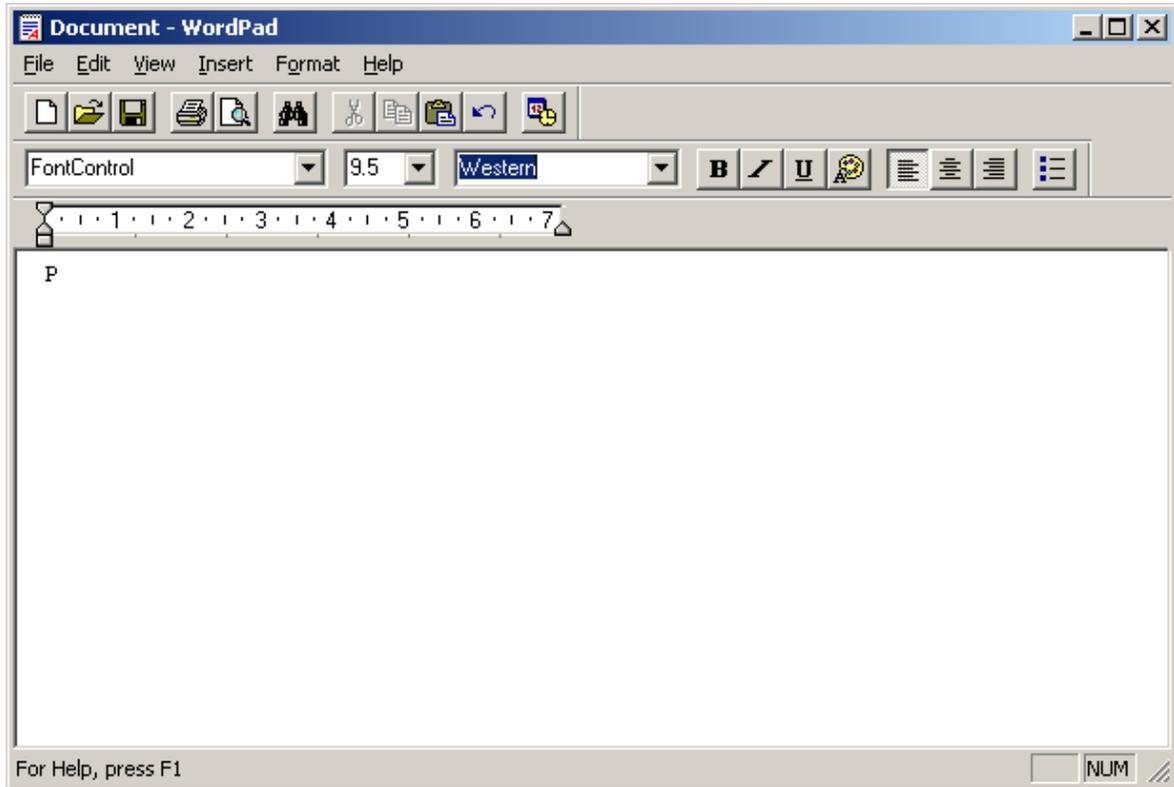
6.3 Opening the Cash Drawer



1. Select the "FontControl" font from the font list.
2. Set the font size to 9.5
3. Type an "A" into the WordPad text-input area.
4. Open the File menu, and click on Print.

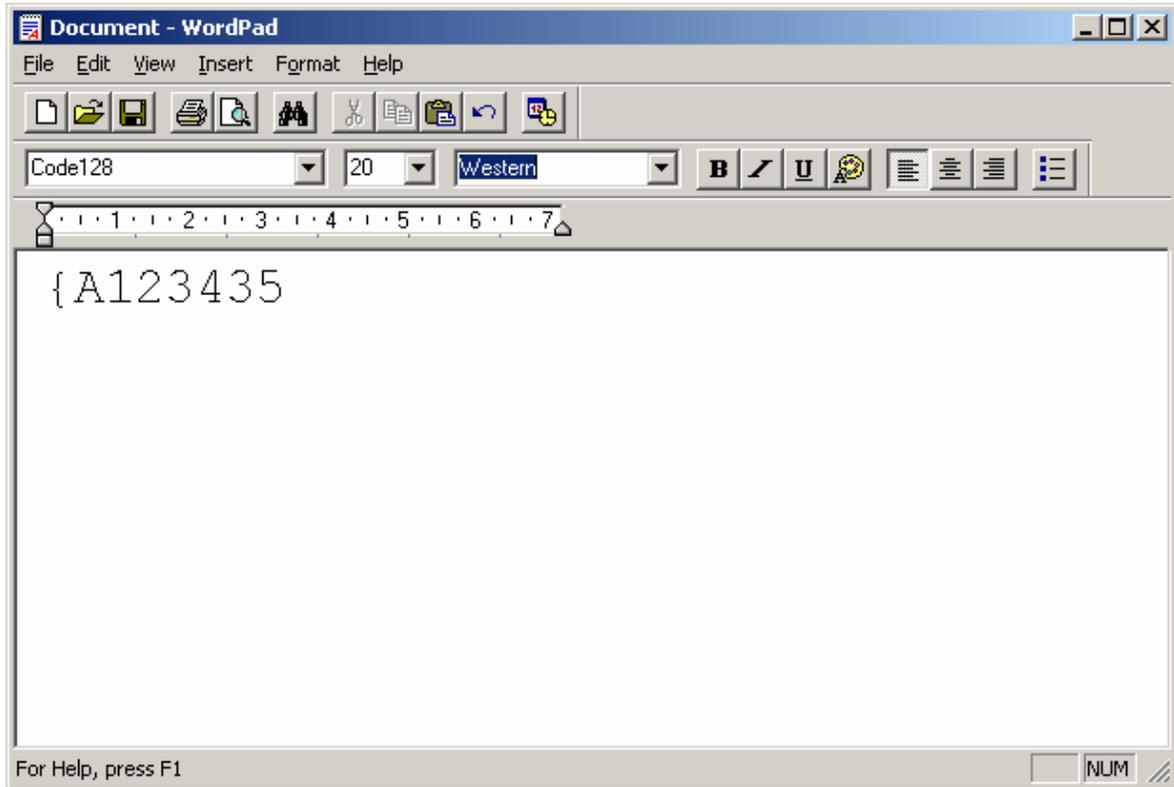
Clicking on Print will cause cash drawer #1 to open at a drive speed of 50ms. By changing the character that you input at Step 3, you can select a different drive speed or open the other drawer. Refer to Section 4.2, "Special Functions," for a listing of characters and their functions.

6.4 Cutting the Paper



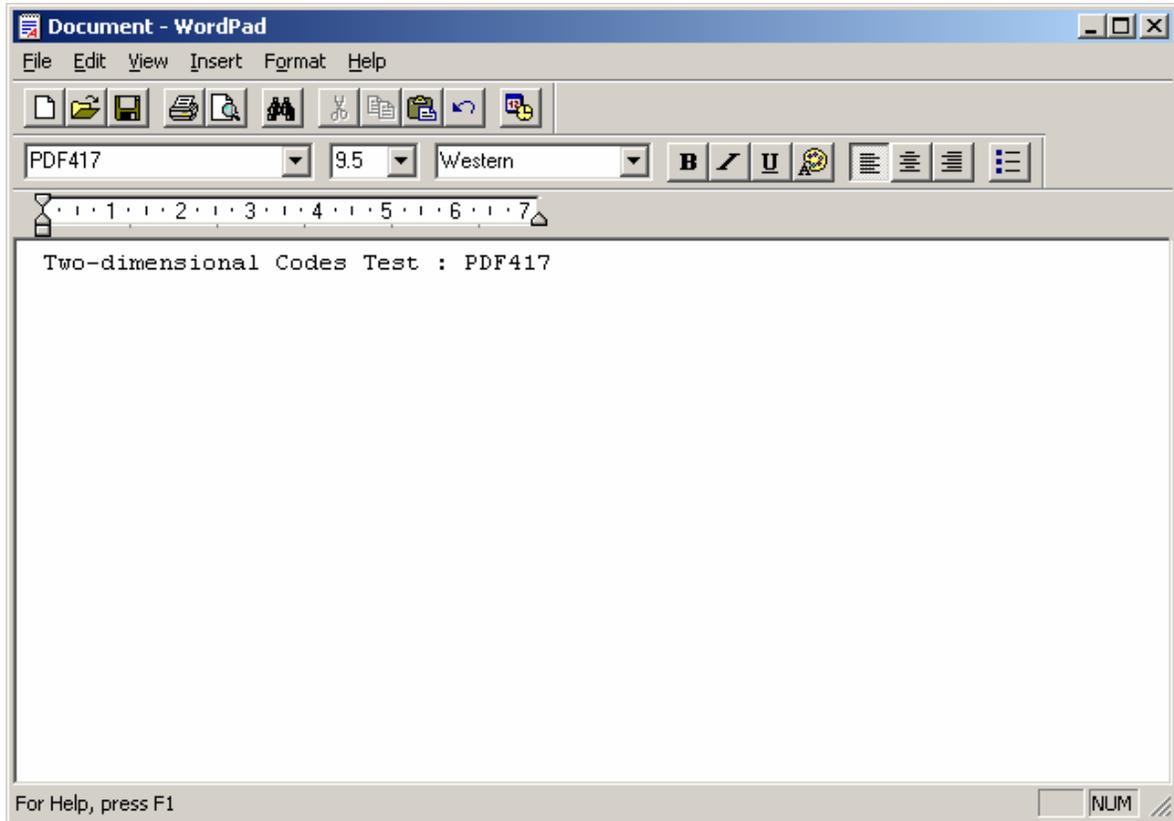
1. Select the "FontControl" font from the font list.
2. Set the font size to 9.5
3. Type in an "P"
4. Open the File menu, and click on Print.

6.5 Bar Code printing



1. Select the "Code128" font from the font list.
2. Set the font size to 20
3. Type in an "{A123435"
4. Open the File menu, and click on Print.

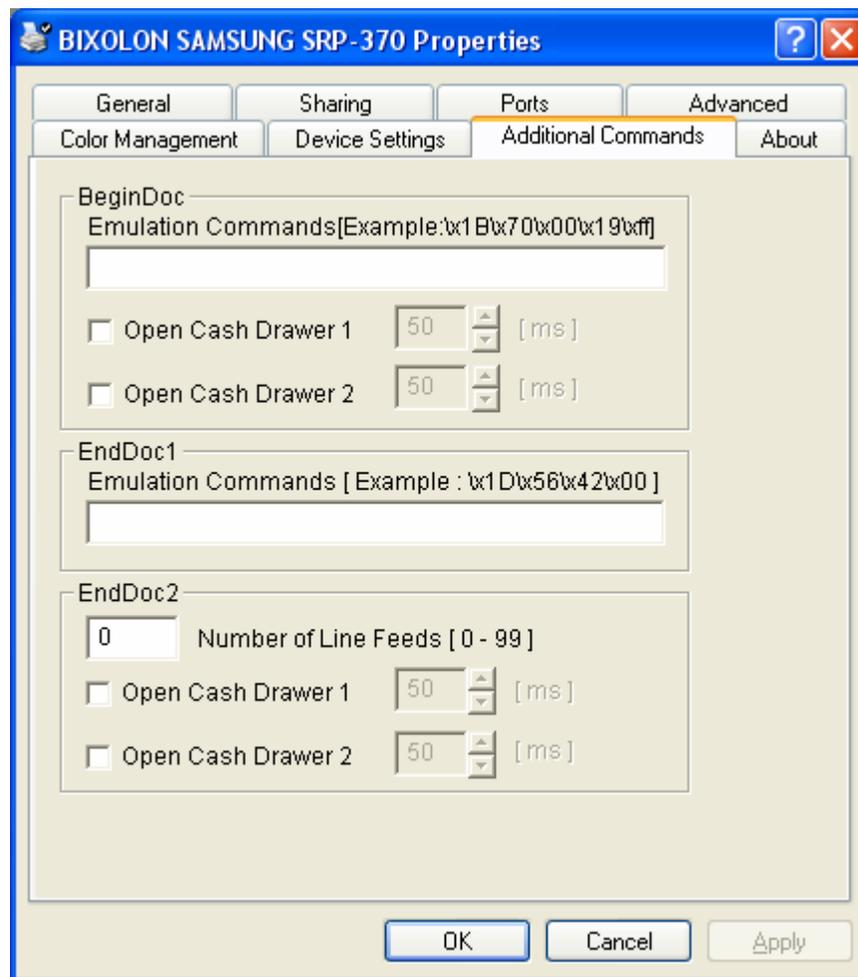
6.6 Two-dimensional Codes printing



1. Select the "PDF417" font from the font list.
2. Set the font size to 9.5
3. Type in an "Two-dimensional Codes Test : PDF417"
4. Open the File menu, and click on Print.

7. Using the SRP-370 Printer Properties

7.1 Additional Commands



[1] Open Drawer1

Open Drawer 1 (50ms drive pulse width).

ex) \x1B\x70\x00\x19\xff = **Open Drawer1**

[2] Cutting Receipt

Cut Receipt (partial cut).

Type the command to cut.

ex) \x1D\x56\x42 = **Cut Receipt**

[3] This is where you enter the number of line feeds that will be done after a document is printed.

[4] You can fire cash drawer 1 or 2.

7.2 About



- printer model and version