Windows Driver User's Manual

MP-300

Mobile Printer

Rev. 1.10



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1. Manual guidance.

This manual describes the Windows Driver installation, uninstallation, special functions, and practical use in your application.

2. Operating System.

This software supports following operating systems.

Microsoft Windows 2000

Microsoft Windows XP(32-bit and 64-bit)

Microsoft Windows 2003 Server(32-bit and 64-bit)

Microsoft Windows Vista(32-bit and 64-bit)

Microsoft Windows 2008 Server(32-bit and 64-bit)

Microsoft Windows Embedded for Point Of Service

3. Windows Printer Driver Preparation.

The utility CD in the unit box includes the Windows Driver.

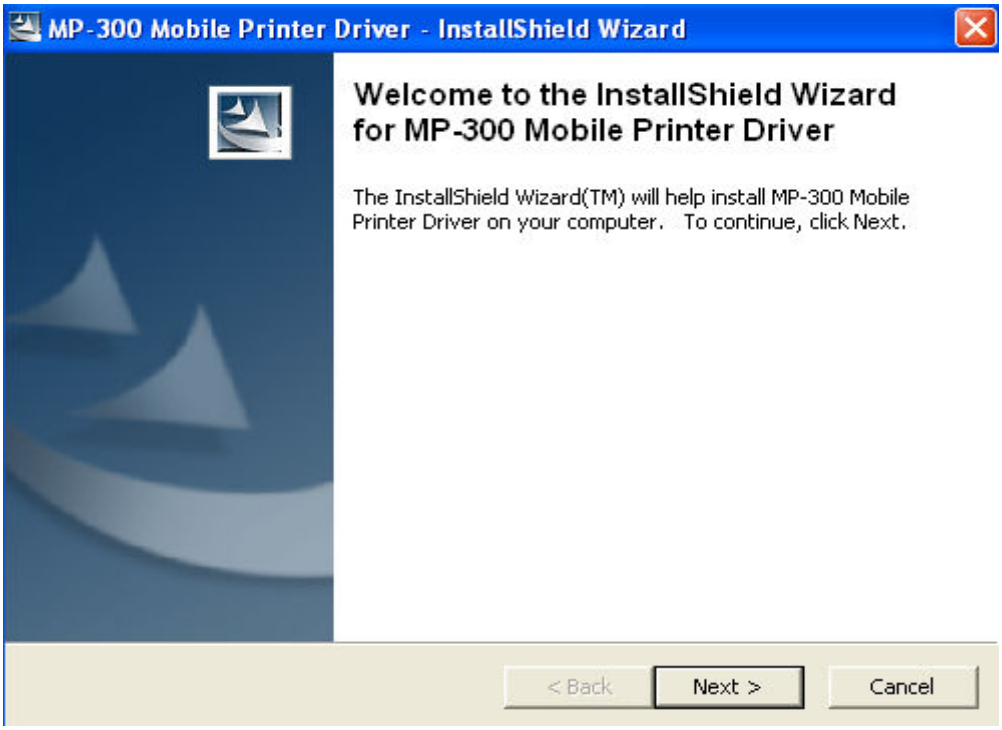
If you have the utility CD, click the MP-300 installation button and execute MP-300 MobilePrinterDriver1.xx.exe file.

4. Installation and Setup.

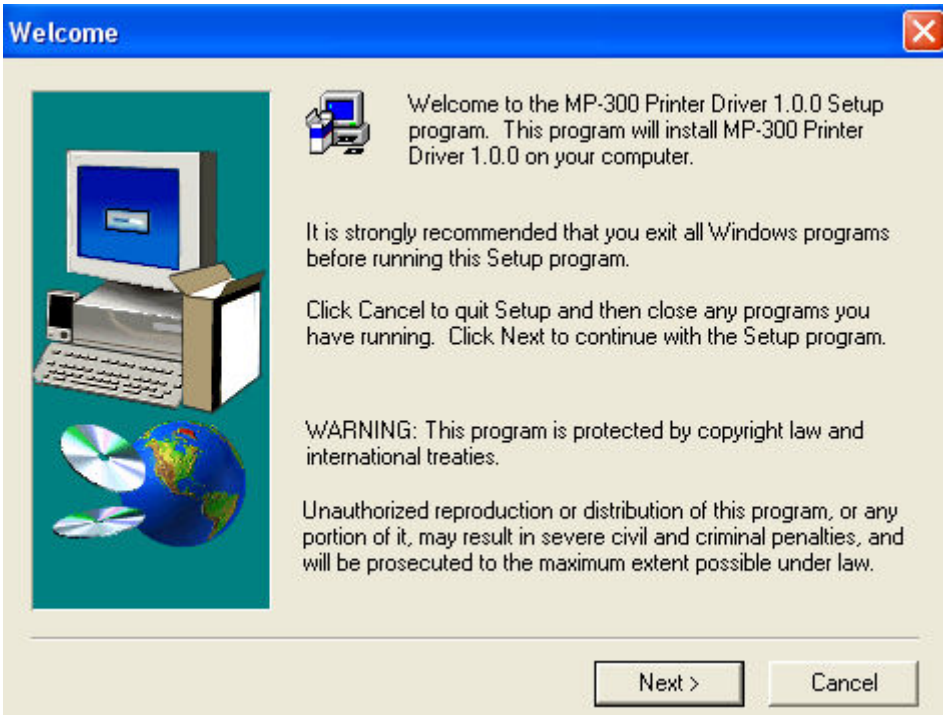
4.1. Windows Driver Installation.

1) Double-click Windows Driver installation file (MP-300 MobilePrinterDriverX.XX.exe).

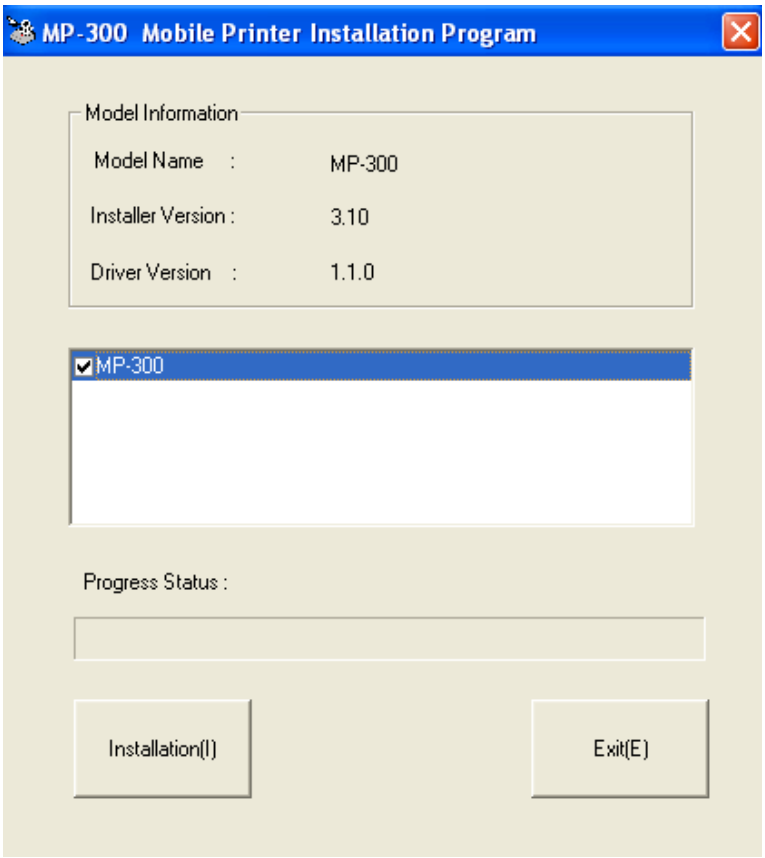
2) Click Next.



3) Click Next.

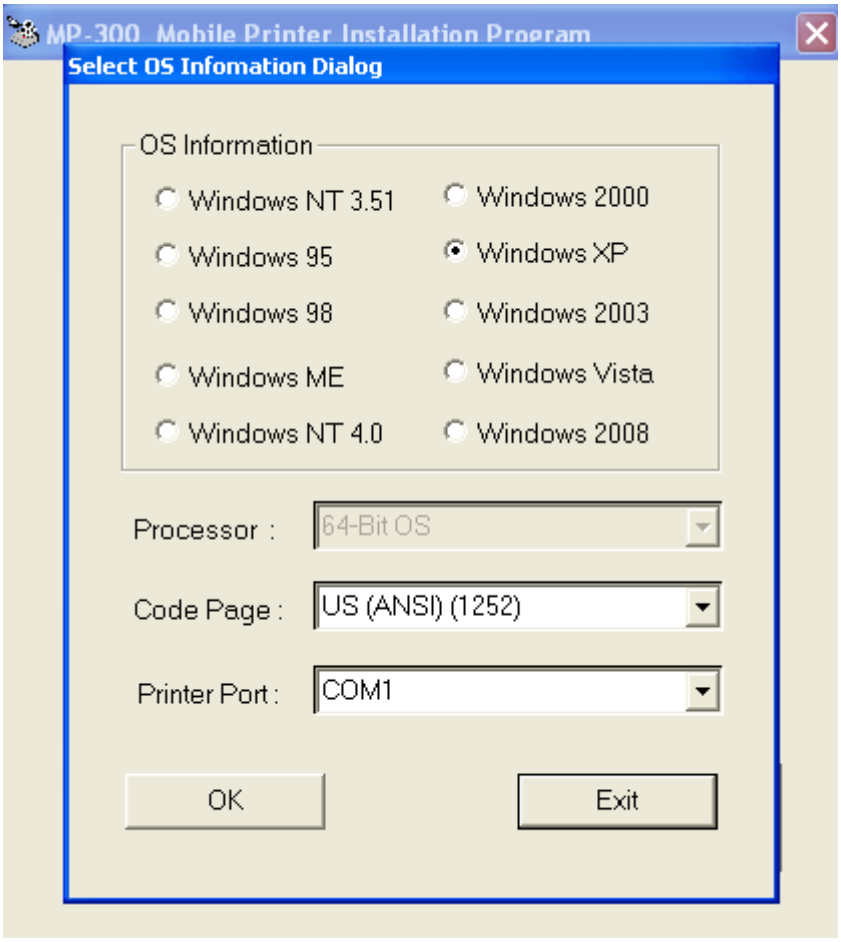


4) Select the Printer model in use and click Install.

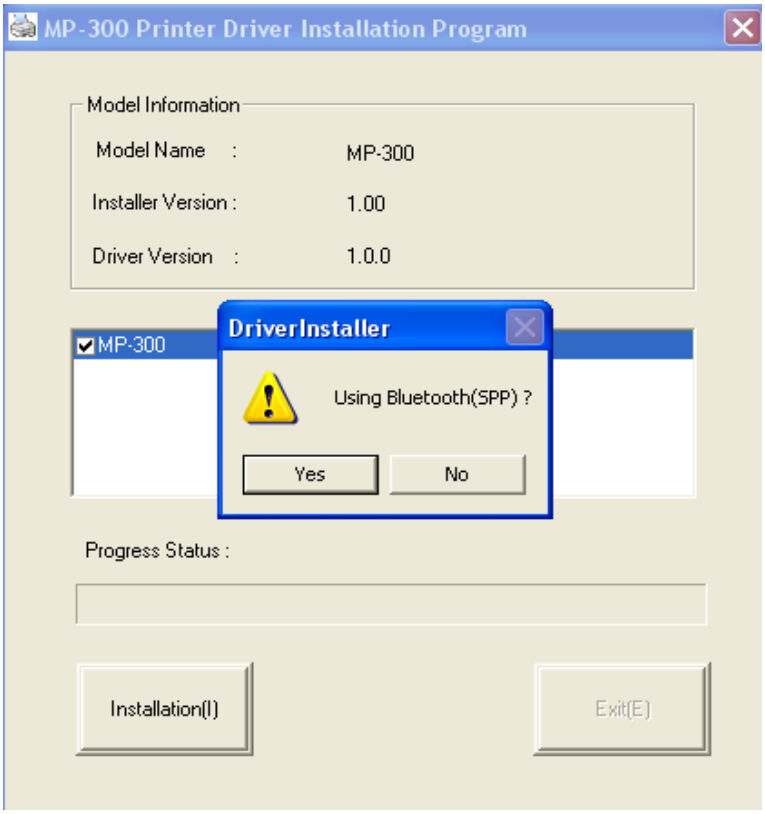


5) Select operating system and set the port and click OK.

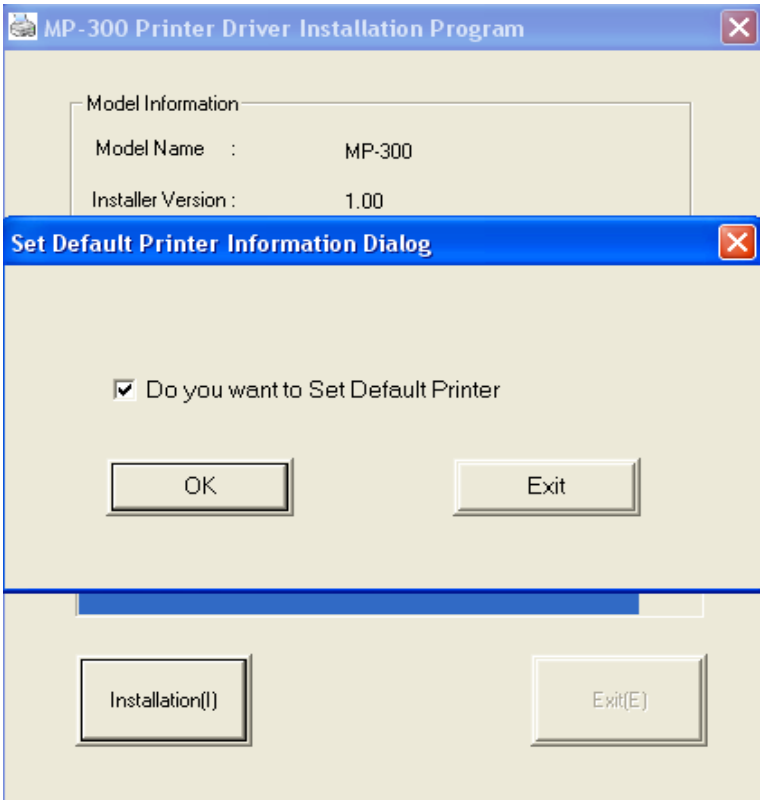
The Driver will be automatically installed.



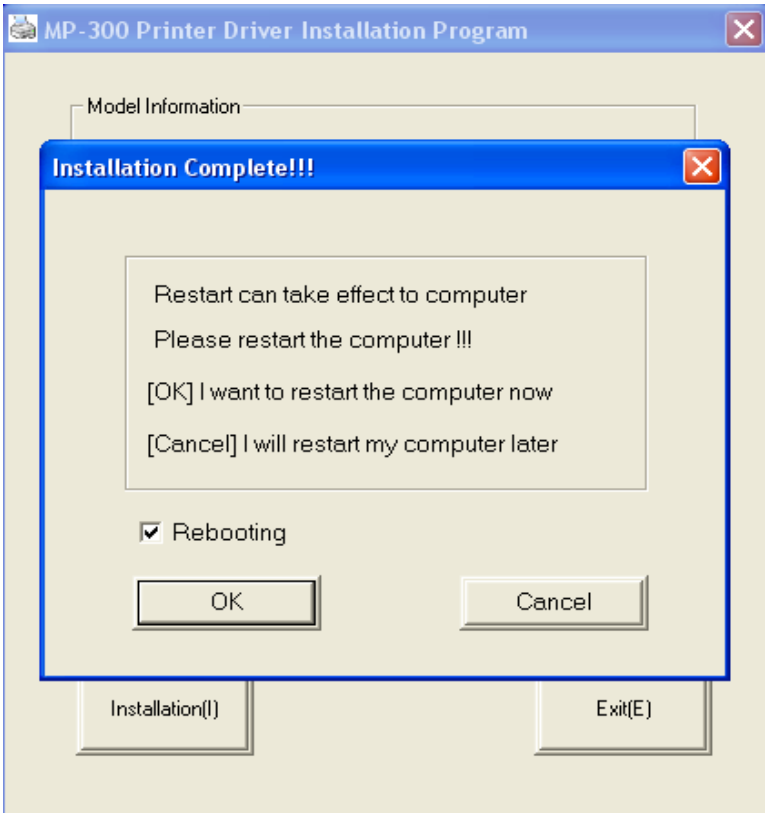
6) Select the Interface to use.



8) Click OK to set default printer.

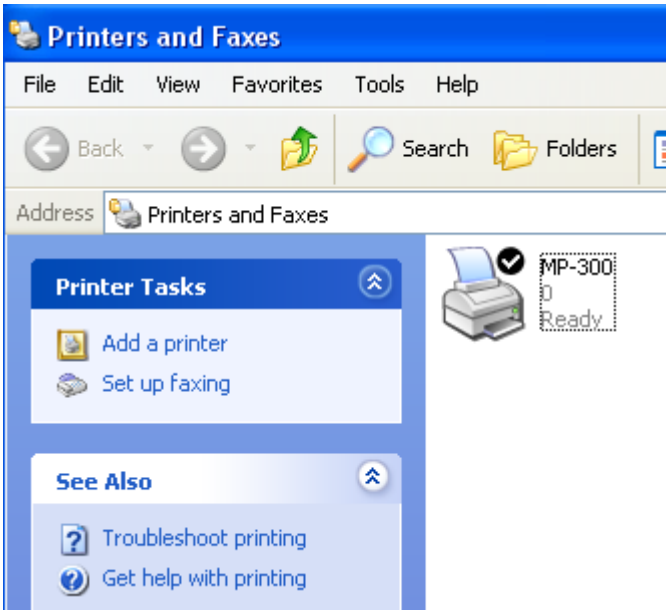


9) After installing, click OK to reboot the system.

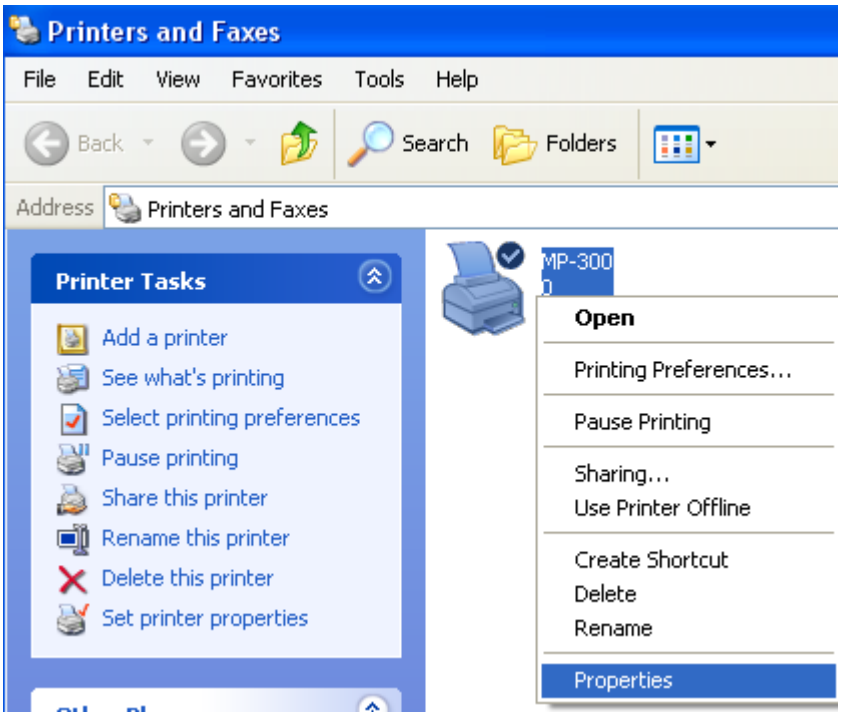


4.2. Serial or Bluetooth Interface setup

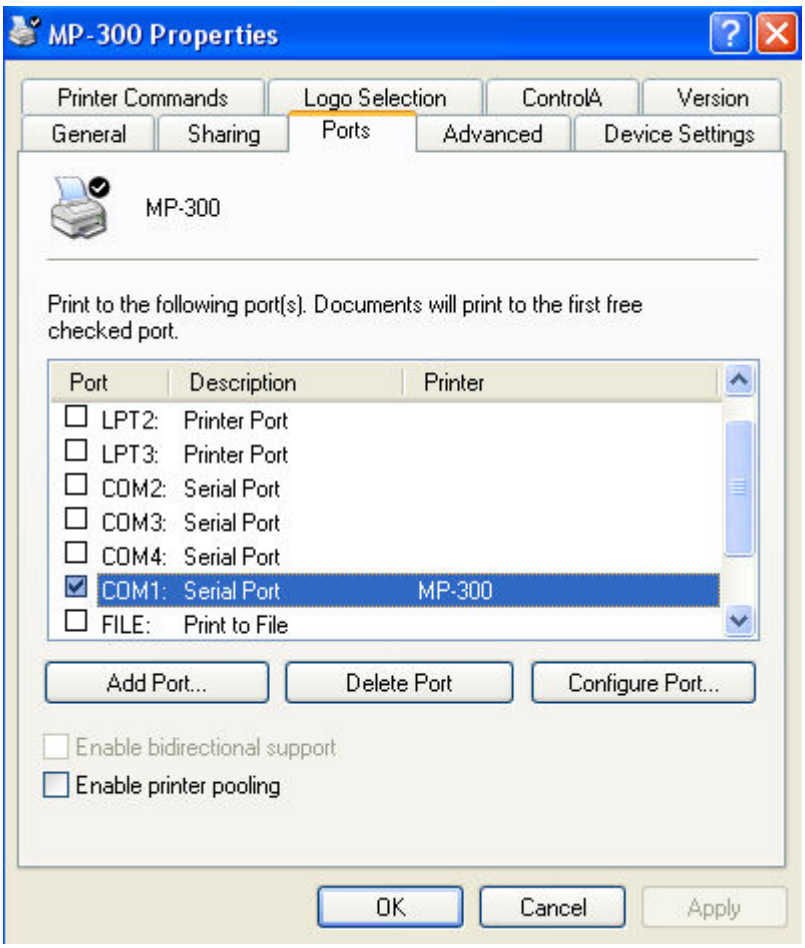
1) Move on to printer directory.



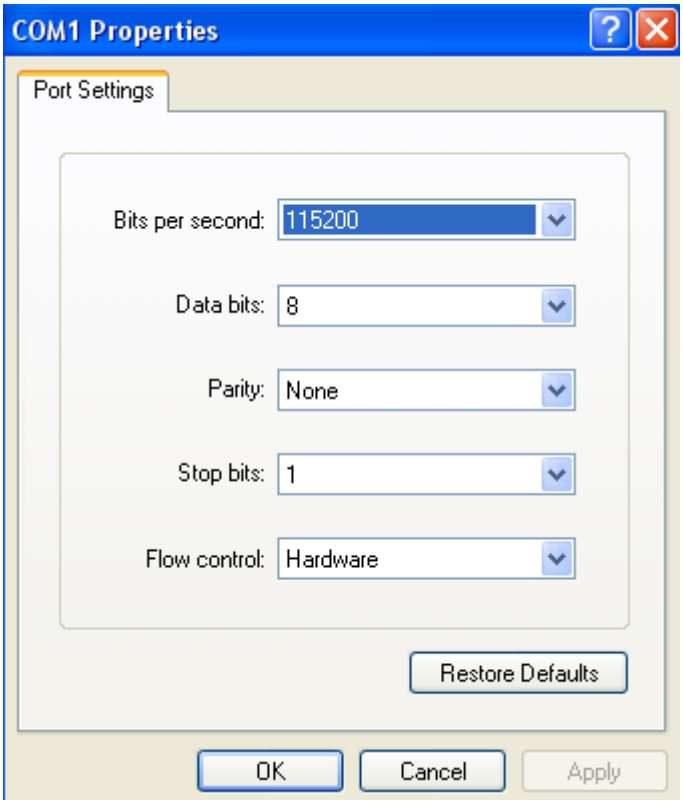
2) Click the right button of the mouse and select Properties.



3) Click Ports tap and Configure Port.



4) Set the baudrate, data bit, parity, stop bit and flow control same as the printer. (Check these properties of the printer including the baudrate through the self-test)



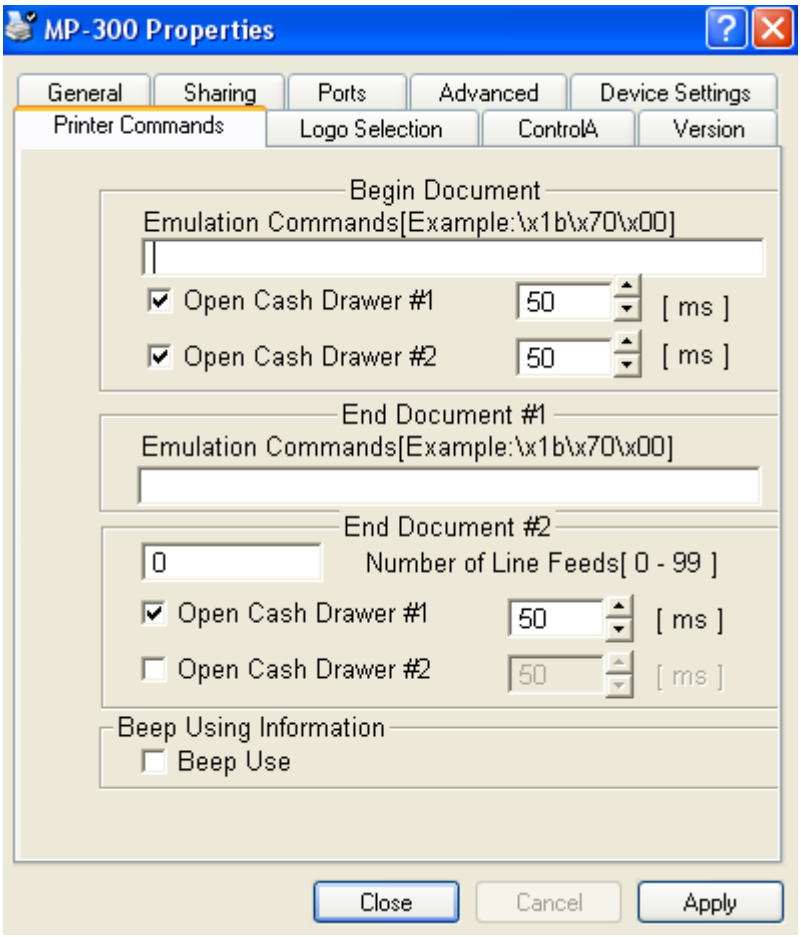
5) Click General tap and Print Test Page. If the printout shows the Microsoft Windows logo and Driver information, the Windows Driver is installed properly.

5. How to setup Windows Printer Driver Settings.

After installing the Windows Driver, you can use following functions.

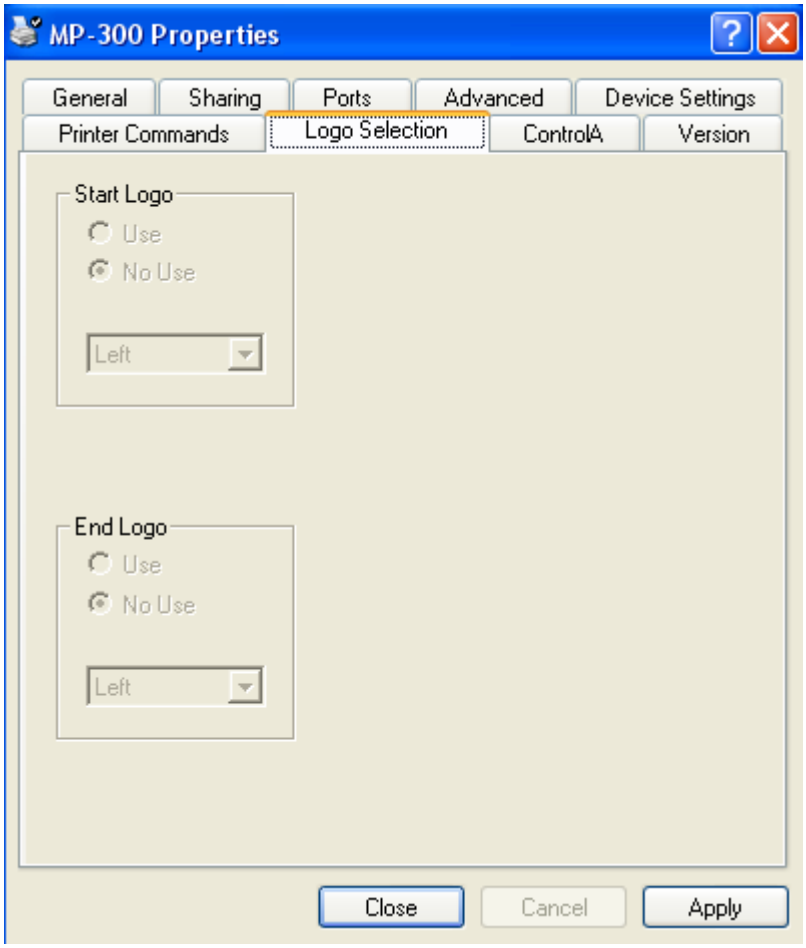
5.1. Printer Commands.

- You can input additional commands to Begin Document or End Document when printing it.



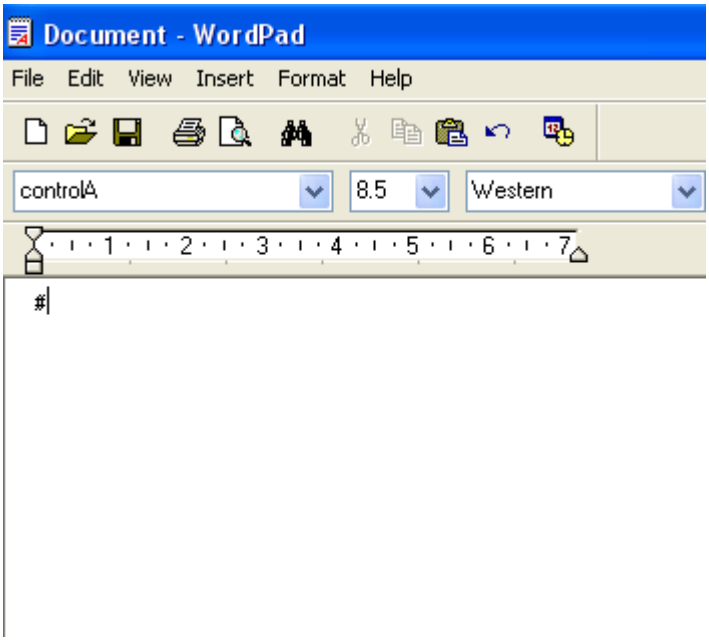
5.2. Logo Selection.

- It functions of printing out the downloaded logo(image file) on the printer.
- The logo download tool is provided separately.

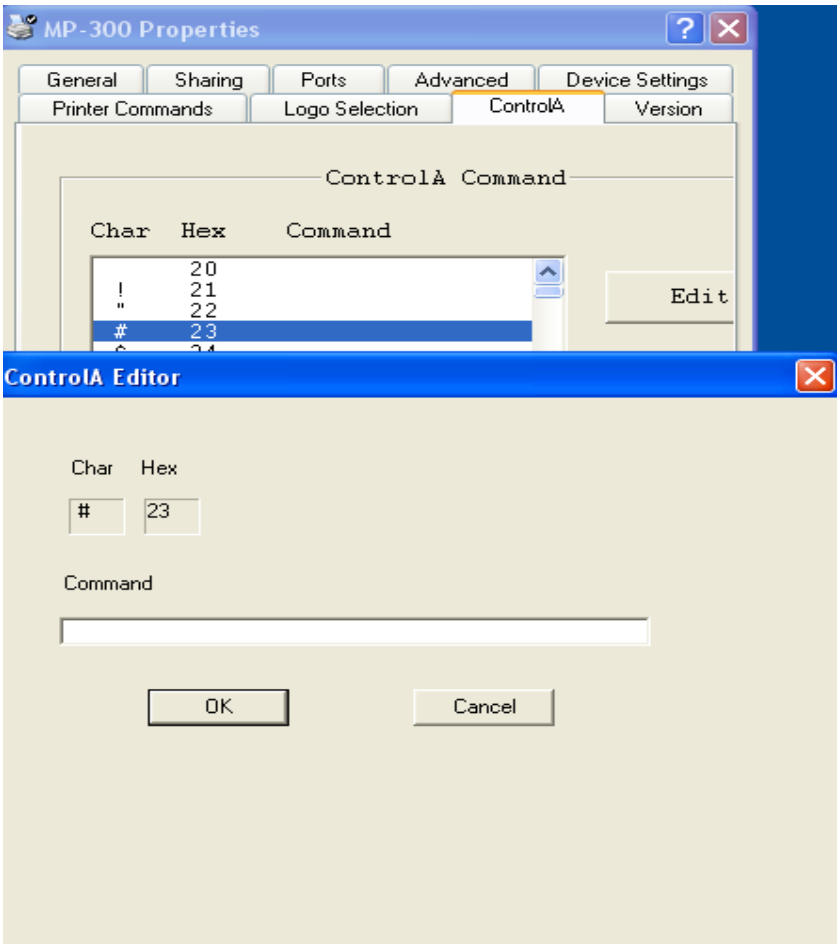


5.3. ControlA.

- This function is to generate and send the separate commands to the printer using Device fonts supported by the Windows Driver.[Device Font Name : ControlA]



For example, if you type the above character, the driver does not print it but converts to the corresponding control code to send the data to the printer.



6. Windows Printer Driver Specification.

6.1. Fonts

- The Windows Driver supports following device fonts.
- The device fonts get the printer performed high speed printing.

6.1.1. Standard Fonts

Printer Fonts	Size (Dot)	Size (Point)	Description
FontA1x1/FontA1x1[…]	(24 X 24)	8.5	Basic device font
FontA1x2/FontA1x2[…]	(24 X 48)	8.5	Vertical double enlargement
FontA2x1/FontA2x1[…]	(48 X 24)	17	Horizontal double enlargement
FontA2x2/FontA2x2[…]	(48 X 48)	17	Vertical-horizontal double enlargement
FontA2x4/FontA2x4[…]	(48 X 96)	17	Horizontal double enlargement Vertical quadruple enlargement
FontA4x2/FontA4x2[…]	(96 X 48)	34	Horizontal quadruple enlargement Vertical double enlargement
FontA4x4/FontA4x4[…]	(96 X 96)	34	Horizontal quadruple enlargement Vertical quadruple enlargement
FontA4x8/FontA4x8[…]	(96 X 192)	34	Horizontal quadruple enlargement Vertical octuple enlargement
FontA8x4/FontA8x4[…]	(192 X 96)	68	Horizontal octuple enlargement Vertical quadruple enlargement
FontA8x8/FontA8x8[…]	(192 X 192)	68	Horizontal octuple enlargement Veridical octuple enlargement
FontB1x1/FontB1x1[…]	(24 X 24)	8.5	Basic device font
FontB1x2/FontB1x2[…]	(24 X 48)	8.5	Vertical double enlargement
FontB2x1/FontB2x1[…]	(48 X 24)	17	Horizontal double enlargement
FontB2x2/FontB2x2[…]	(48 X 48)	17	Vertical-horizontal double enlargement
FontB2x4/FontB2x4[…]	(48 X 96)	17	Horizontal double enlargement Vertical quadruple enlargement
FontB4x2/FontB4x2[…]	(96 X 48)	34	Horizontal quadruple enlargement Vertical double enlargement
FontB4x4/FontB4x4[…]	(96 X 96)	34	Horizontal quadruple enlargement Vertical quadruple enlargement
FontB4x8/FontB4x8[…]	(96 X 192)	34	Horizontal quadruple enlargement Vertical octuple enlargement
FontB8x4/FontB8x4[…]	(192 X 96)	68	Horizontal octuple enlargement Vertical quadruple enlargement
FontB8x8/FontB8x8[…]	(192 X 192)	68	Horizontal octuple enlargement Veridical octuple enlargement

6.2. Bar codes.

- Following device barcode fonts are supported by the Windows Driver.

Select the device barcode font corresponding to the bar code type and input data to print it out.

Printer font name for bar code	Font size(Point)	Description
Codabar(NW7)	18/35.5/53/71	Codabar
Code128	18/35.5/53/71	Code 128
Code39	18/35.5/53/71	3 Of 9
Code93	18/35.5/53/71	Code 93
ITF	18/35.5/53/71	Interleaved 2 of 5
JAN13(EAN13)	18/35.5/53/71	JAN(EAN)13
JAN8(EAN8)	18/35.5/53/71	JAN(EAN)8
UPC-A	18/35.5/53/71	UPC-A
UPC-E	18/35.5/53/71	UPC-E

6.3. Device Control Fonts

- The Windows Driver supports following control fonts.

The characters in below table are not printed out as it is provided just to support special functions of the printer.

Character	Description
1	Print to journal.
2	Print to receipt.
3	Print to receipt and journal.
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)
f	Cut Receipt (full cut) without paper feeding.
g	Cut Receipt (partial cut) without paper feeding.
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.
u	Smoothing enabled.
v	Smoothing disabled.
w	Text is aligned left.
x	Text is centered.
y	Text is aligned right.
z	Cut Receipt with black mark.
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).
F	Cut Receipt (full cut).
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)
[	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.
!	Print stamp.

7. How to use the Windows Driver in the application.

This utility includes the Sample to guide how to use the Windows Driver on the Visual Basic. You can check the details through the Visual basic sample program.