

New Windows Driver Manual
A10M / A7 / A5 Receipt Printer



User's Manual

Revision 2.3.0

2015-11-16

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1. Introduction

This Manual describes driver installation, detailed function and practical usage of the Windows Printer Driver based on Windows O/S(Operation System).

We, POSBANK, continue improving function and quality of our products. Product description and content of manual can be changed without a prior notice.

2. Operation System(O/S)

Our Windows Printer Driver is available in below O/S.

Microsoft Windows 7 (32bit/64bit)

Microsoft Windows 8 (32bit/64bit)

Microsoft Windows 8.1 (32bit/64bit)

Microsoft Windows Embedded Standard

Microsoft Windows Embedded 8

3. Windows Driver Preparation

You can download the latest version of Driver from POSBANK homepage. Please visit following web-sites. (<http://www.posbank.com/support/driver.html>)

After you download the compressed file from the homepage, unzip the files and start EasySet_MiniPrinter_WD_Win7_8_v2.3.x.exe

*) All programs related to Driver installation, have been signed by "VeriSign Class 3 code Signing" Authentication. 'Digital Signature' secures reliability of all of the driver programs and protects the programs from malicious modification.

Caution)

In contrast to previous versions, 'v2.3.0' version can be used in both 32-bit and 64-bit O/S.

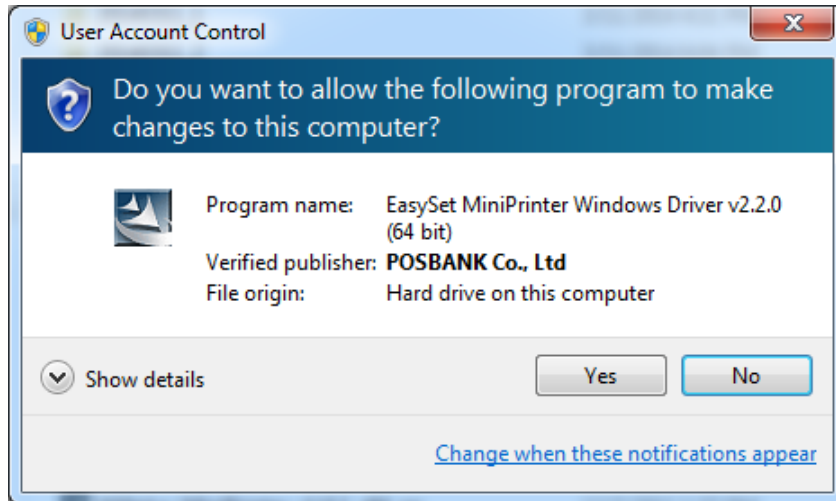
If pro-'v2.2.1' windows driver was installed, please remove the driver before you start installation.

4. Windows Printer Driver Installation for Windows 7

4-1) Double click Windows Driver Set up file.

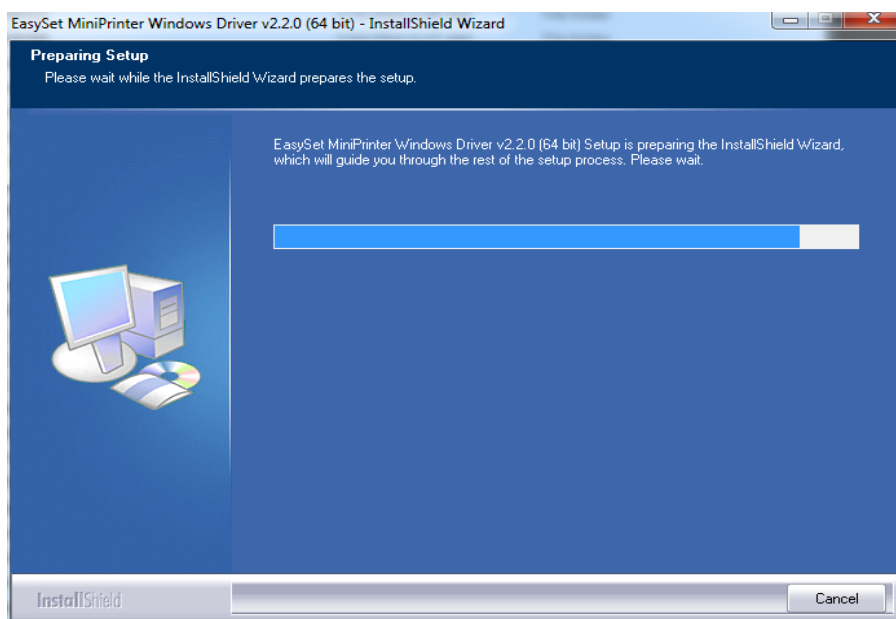
Start with 'EasySet_MiniPrinter_WD_Win7_8_v2.3.x.exe'

4-2) Click 'Yes' of User Account Control(UAC) message box.

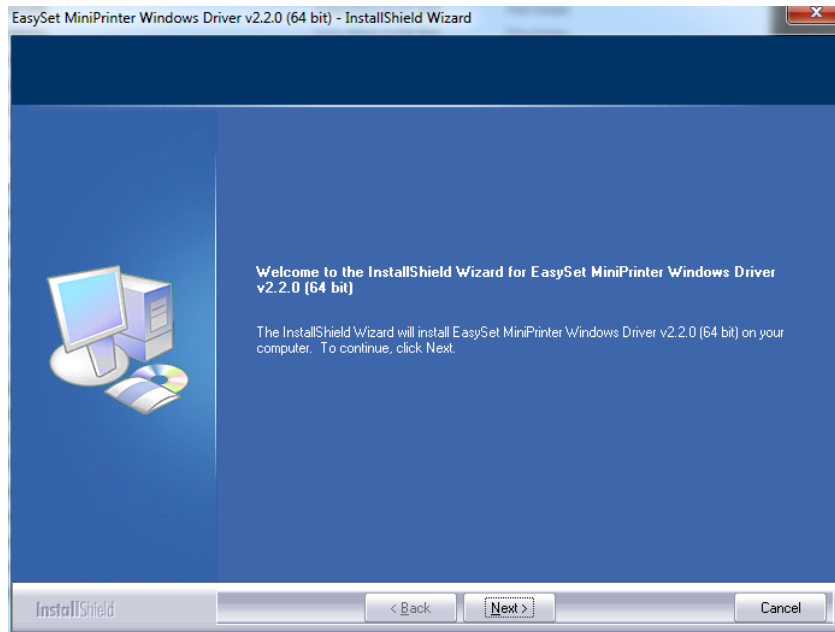


Description : UAC (User Account Control) is one of the major security-enhanced program by Microsoft Windows Vista. By giving different privileges to each account, it prevents system damage from unnecessary software. This message doesn't affect using our software

4-3) Start Printer Driver Installation.

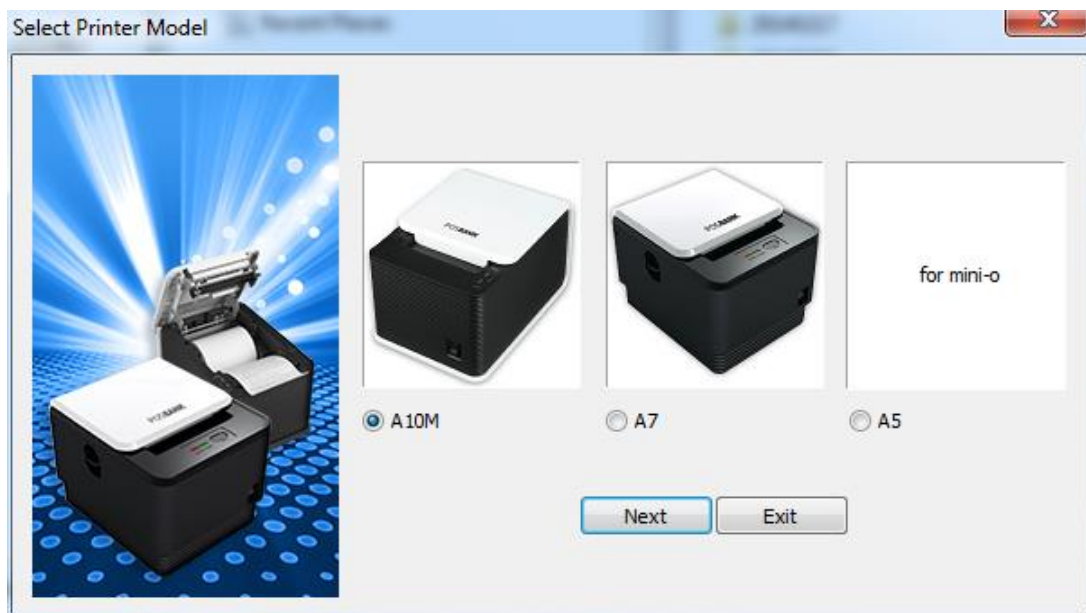


4-4) Click 'Next' to continue installing the driver.



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4-5) Select Printer Model and click 'Next'.

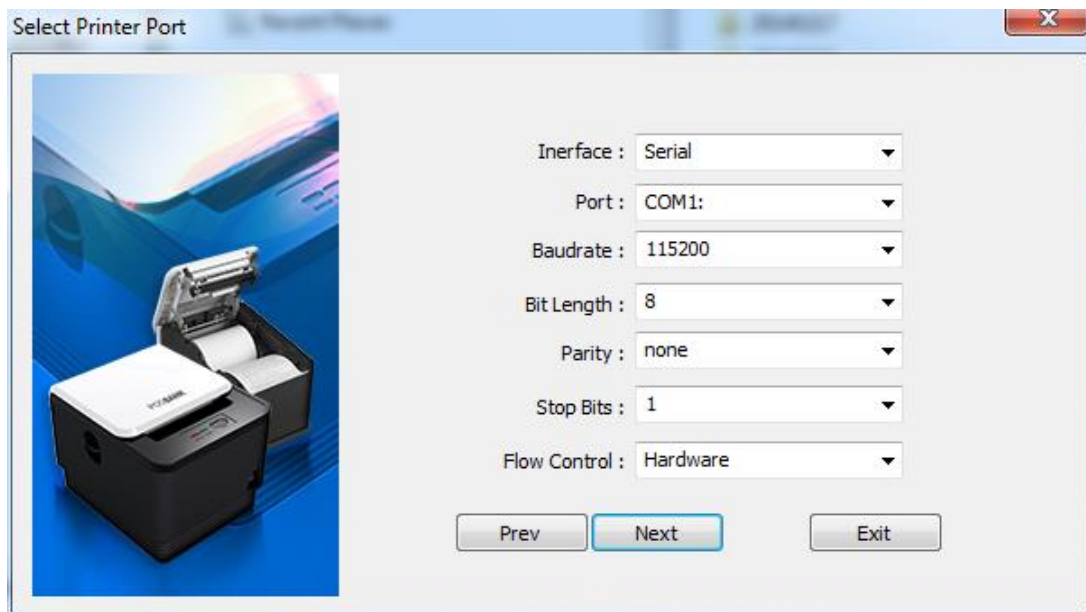


Description: Select A10M for IMPREX inner printer.

Select A5 for Mini-O inner printer.

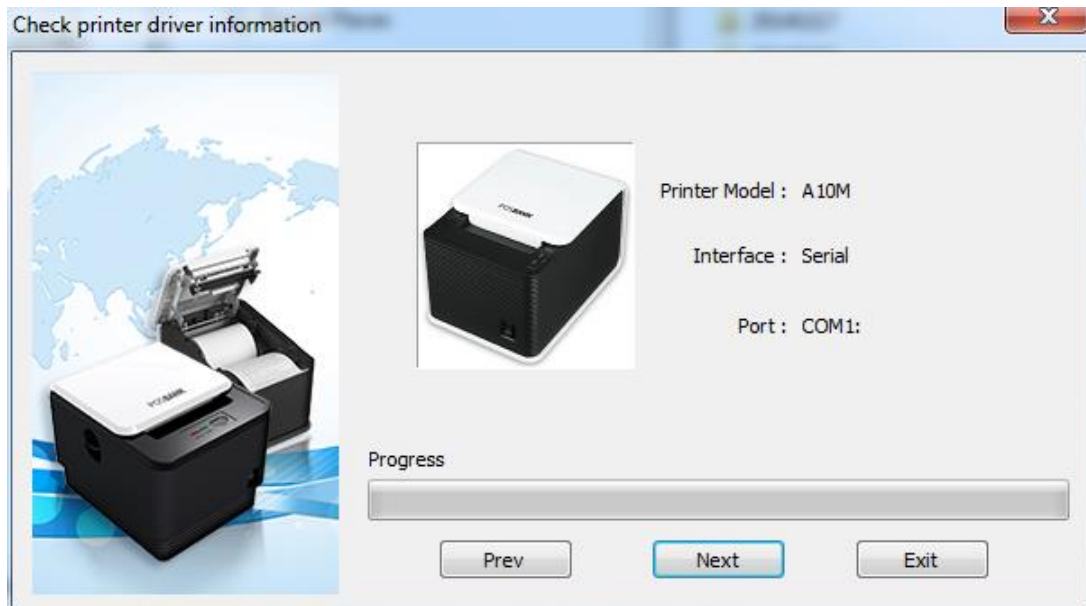
Select A10M for old A9 / A10 models.

4-5-1) In case of using Serial Port, select Serial for Interface.

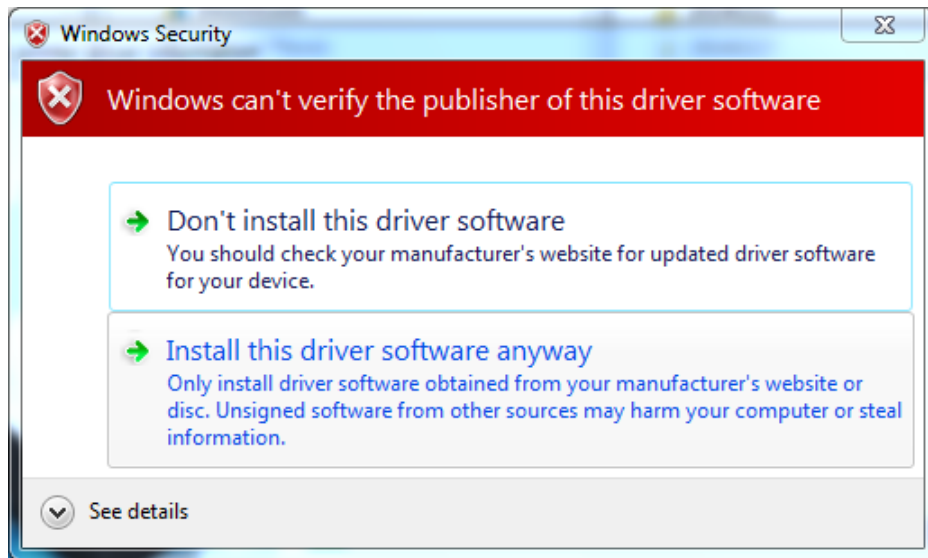


Description: You can check Interface of Printer by Self-Test function.

4-5-1-1) Check Printer Model, Interface and Port. If these are correct, click 'Next'.

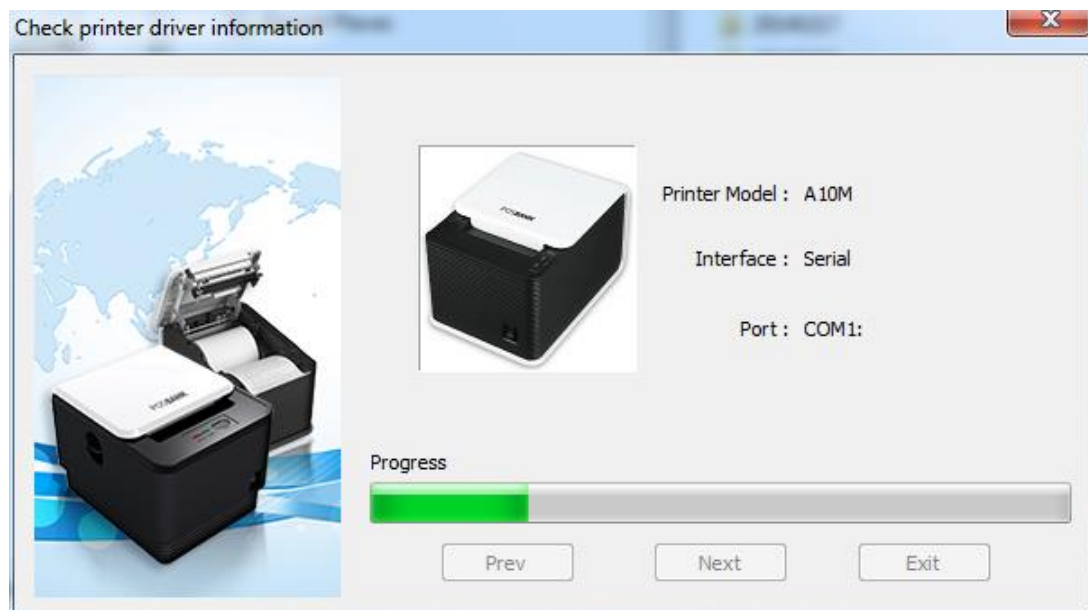


4-5-1-2) Click 'Install this driver software anyway' when you see below message box.

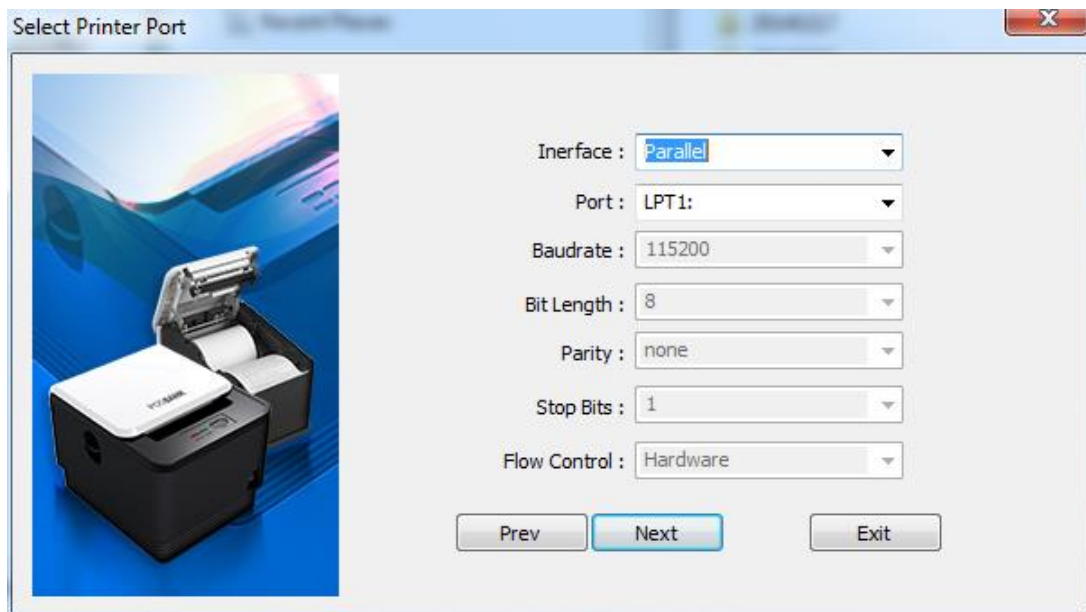


Description: Warning message about Software Publisher is one of the major security-enhanced function by Microsoft. An error message box, 'Windows can't verify the publisher of this driver software' will pop up, if WHQL (Windows Hardware Quality Labs) authorization by Microsoft is not installed or finding WHQL certification function is damaged. This message doesn't affect using our software.

4-5-1-3) Install Printer Driver and register the printer device in 'Printer & Faxed'

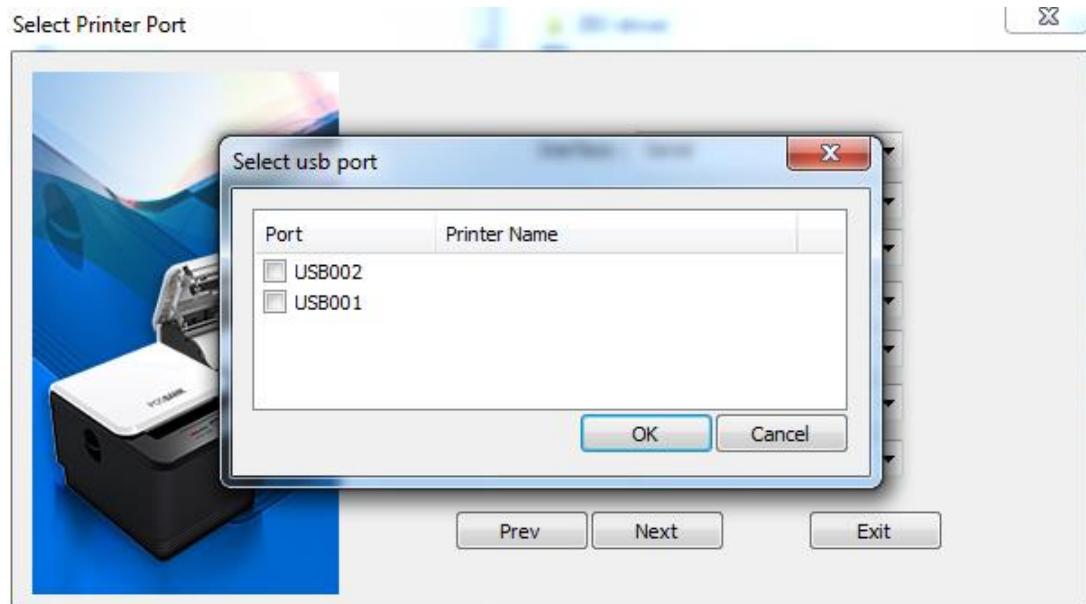


4-5-2) In case of using Parallel Port, select Parallel for Interface and click 'Next'.

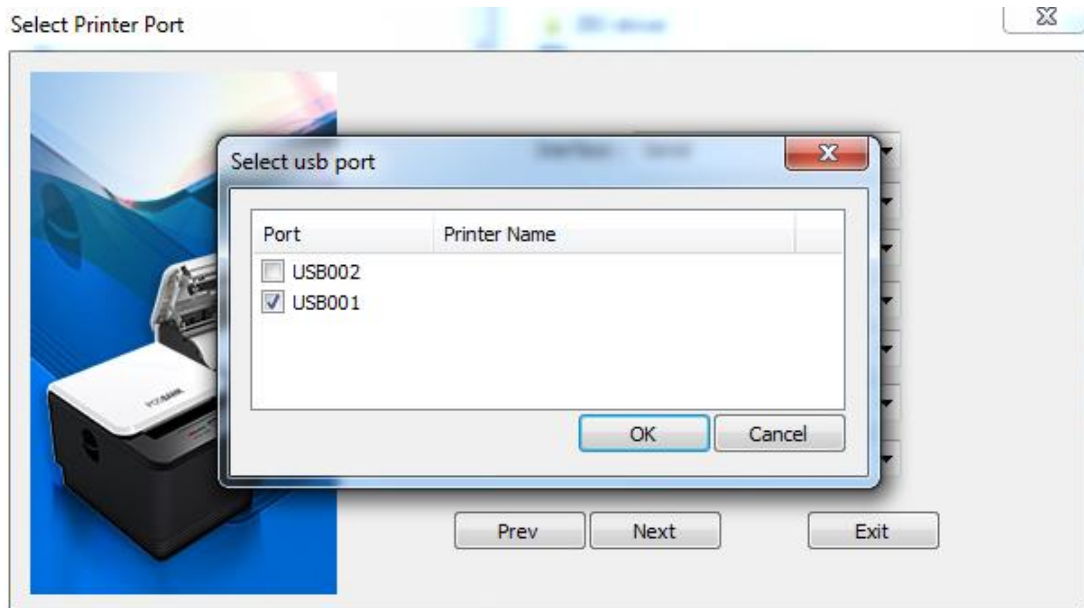


See 4-5-1-1) to 4-5-1-3) for the next steps.

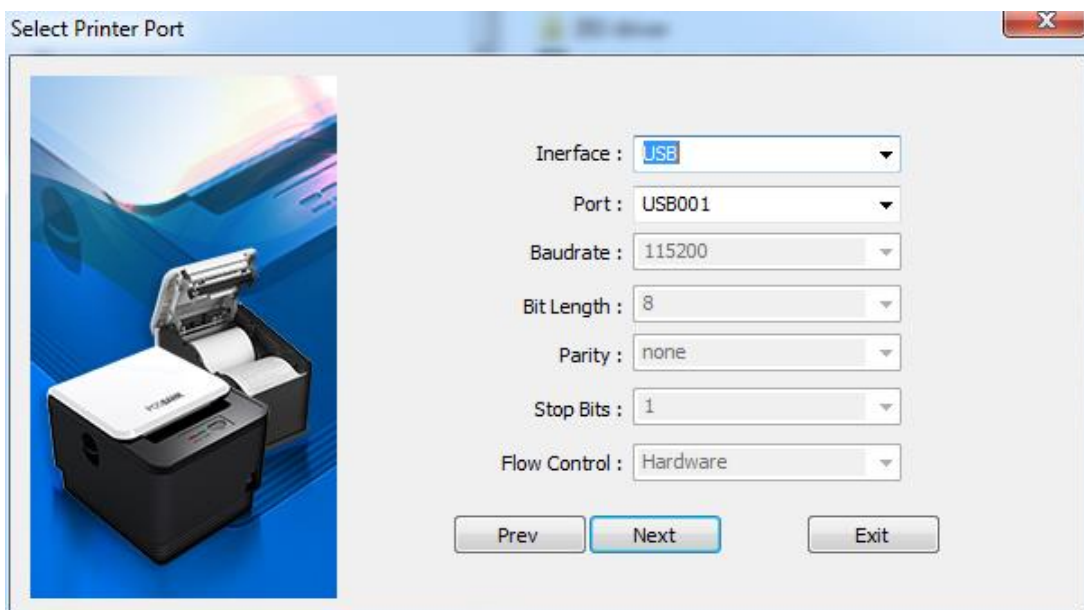
4-5-3) In case of using USB Port, connect Printer before turning on POS.



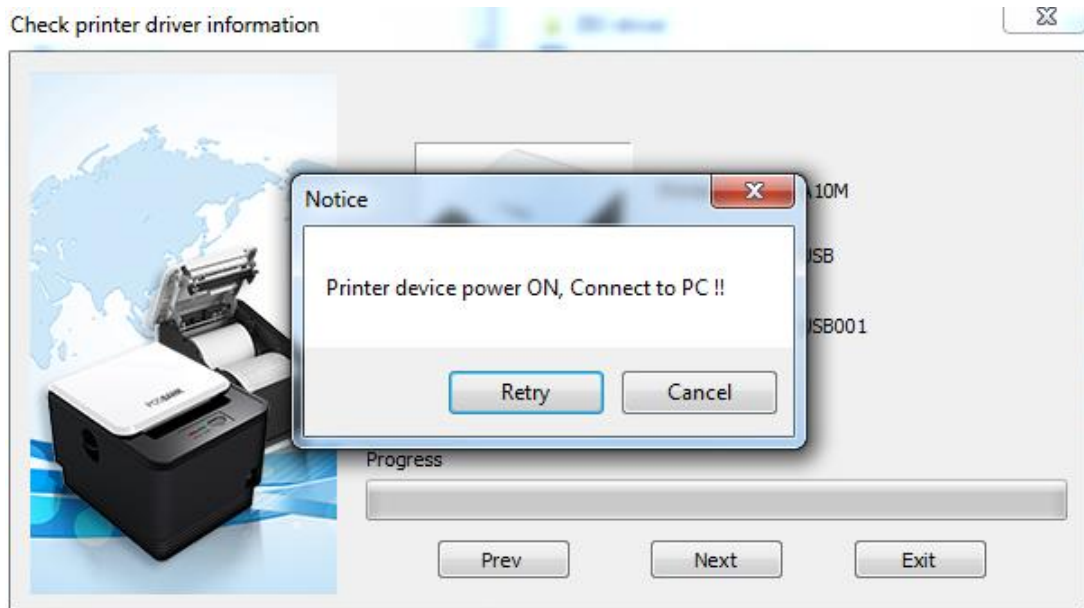
4-5-3-1) Select port and click 'OK'



4-5-3-2) Click 'Next'

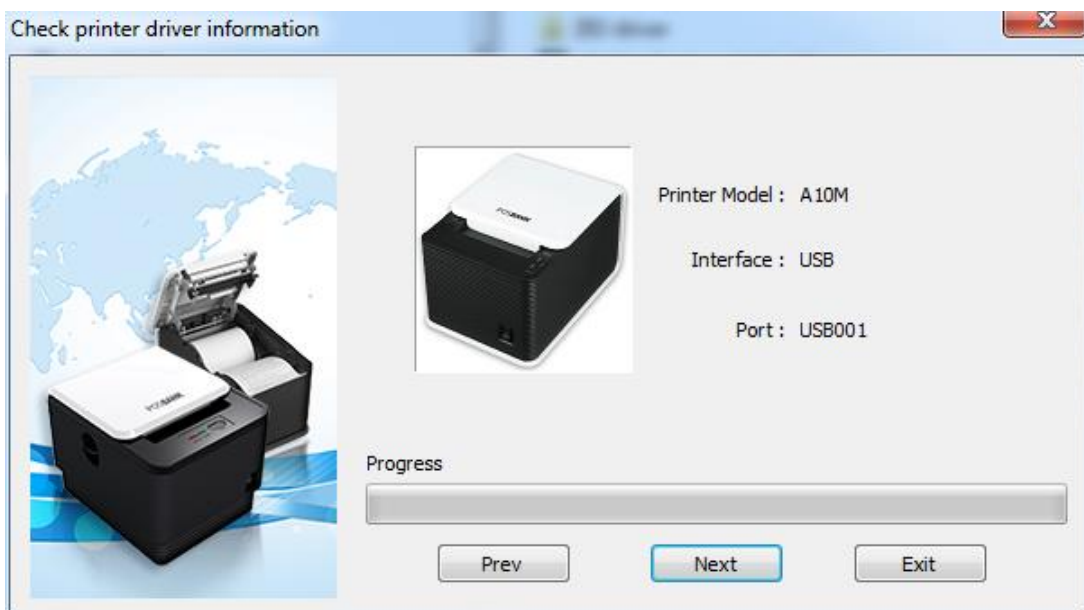


4-5-3-3) Turn off and on Printer power. Click 'Retry'.

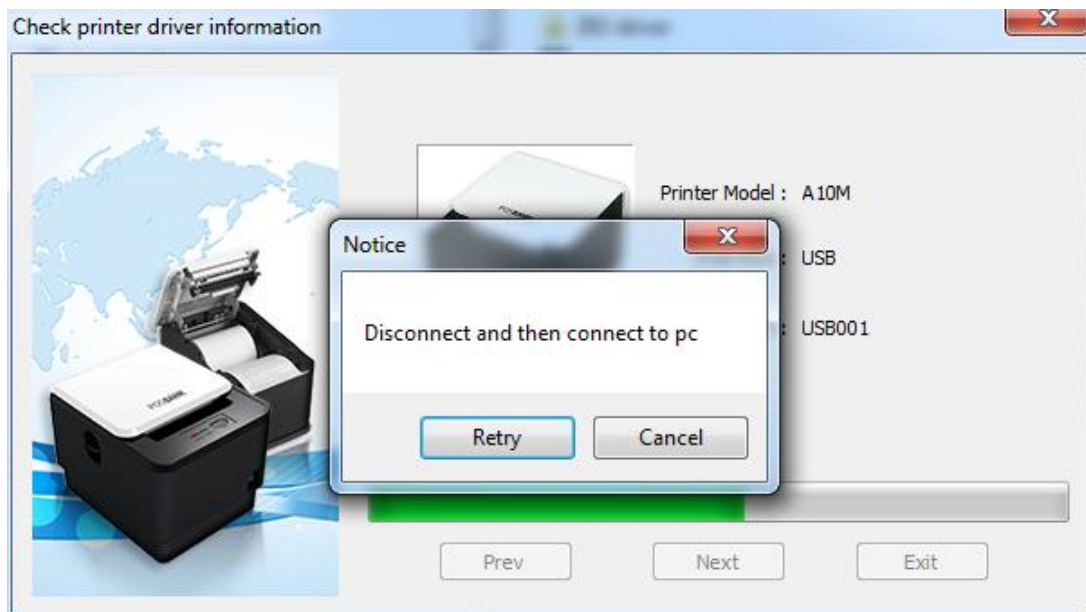


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4-5-3-4) Click 'Next'

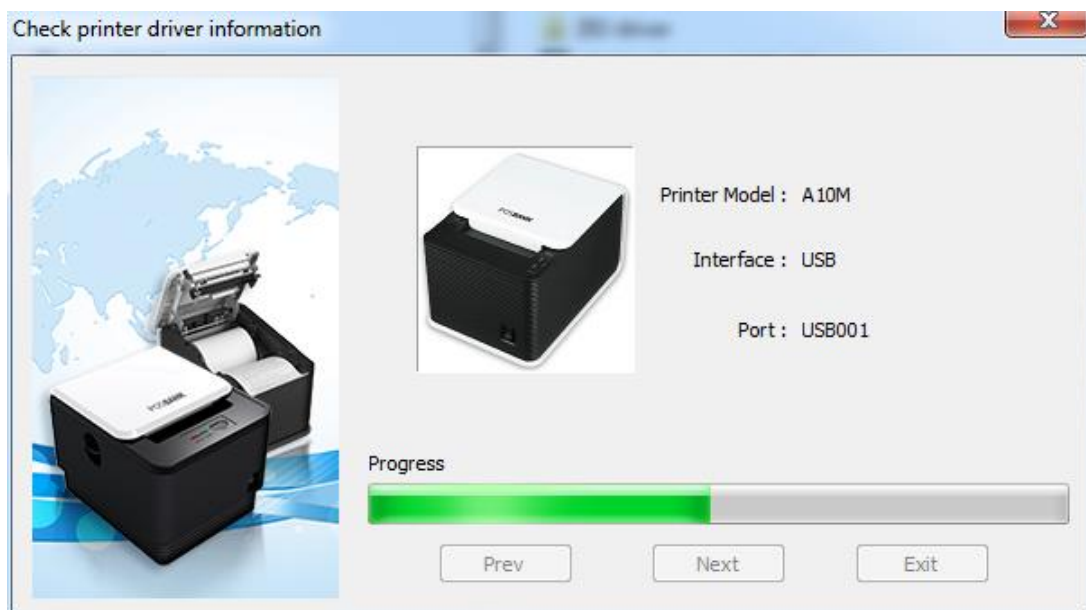


4-5-3-5) Turn off and on Printer power. Click 'Retry'.

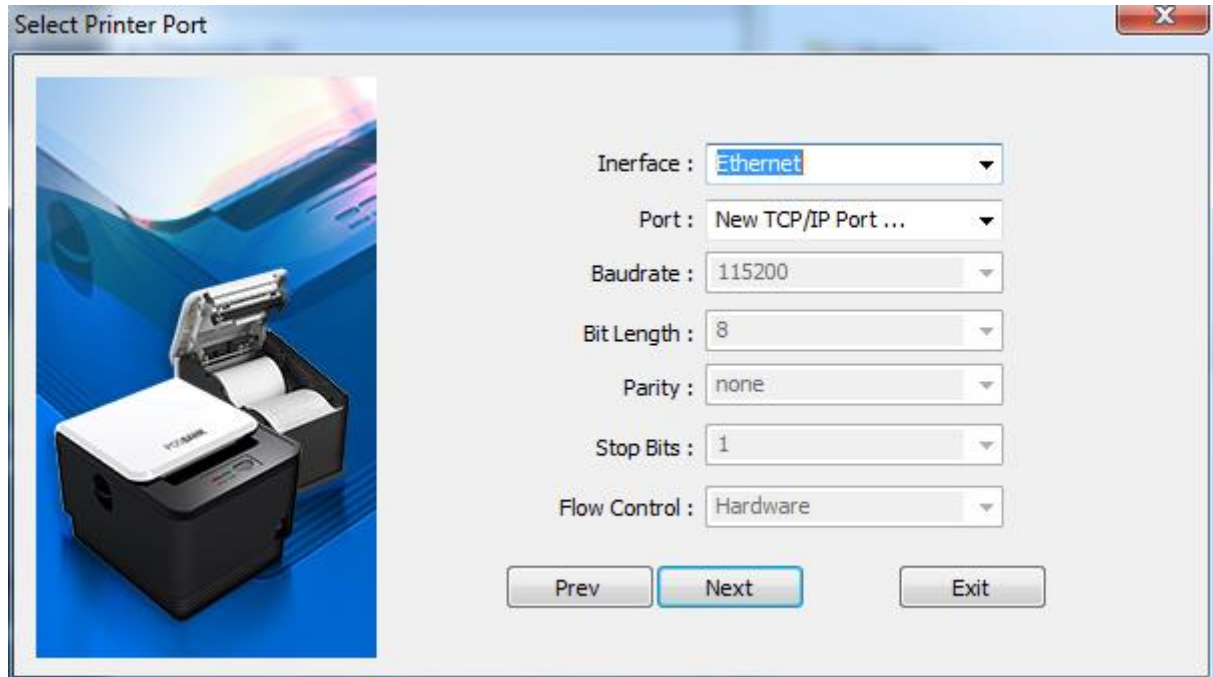


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4-5-3-6) Finish setting.



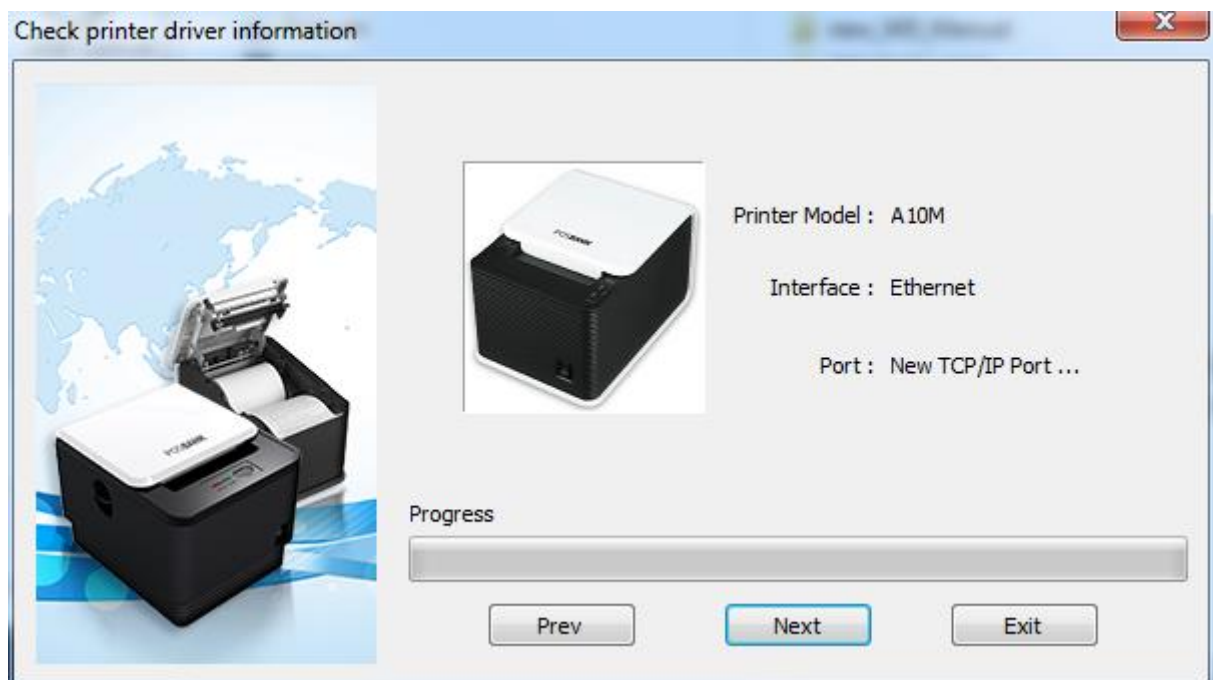
4-5-4) In case of using Ethernet Port, select Ethernet for Interface and click 'Next'



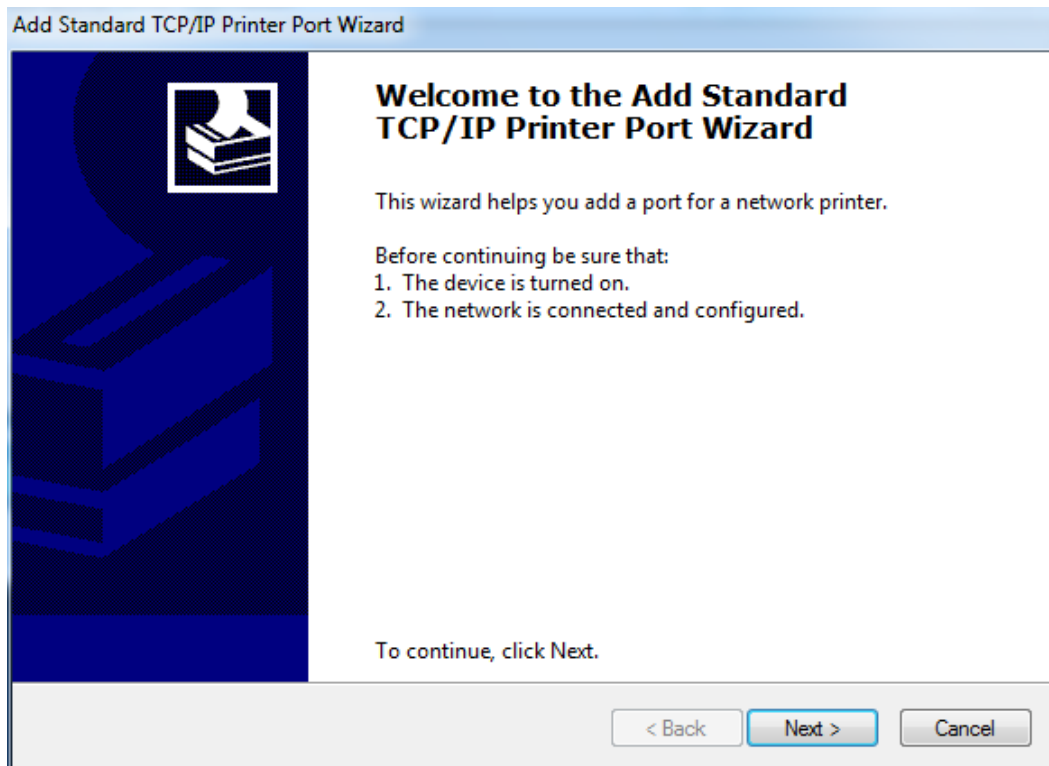
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Description: If TCP/IP Port was set up, select it from Port List. If not, select 'New TCP/IP Port...'.
Port...'

4-5-4-1) Click 'Next'.

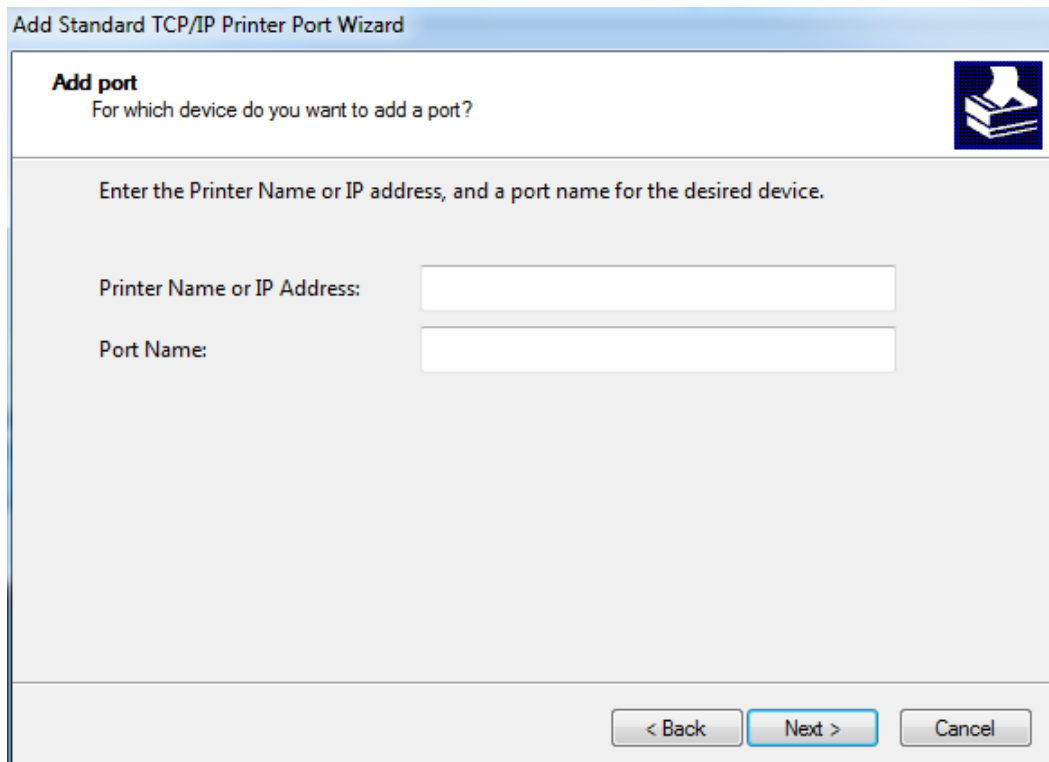


4-5-4-2) Click 'Next'.

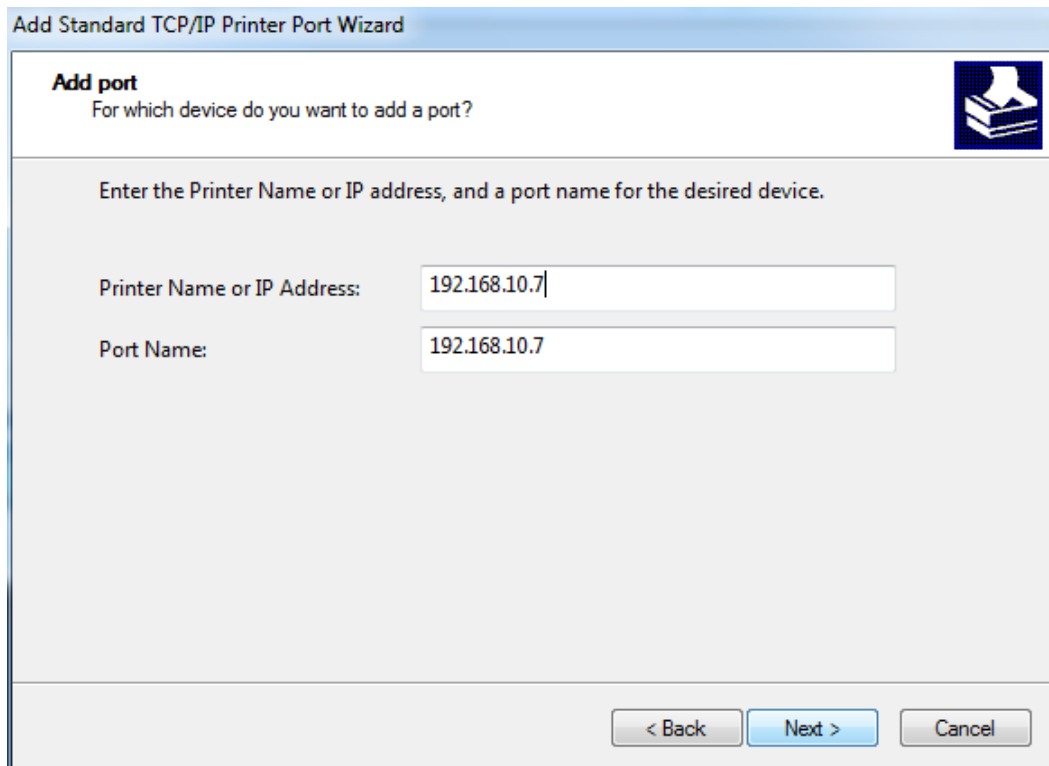


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4-5-4-3) Enter TCP/IP of Printer Ethernet Interface.



4-5-4-4) Click 'Next'.



Add port
For which device do you want to add a port?

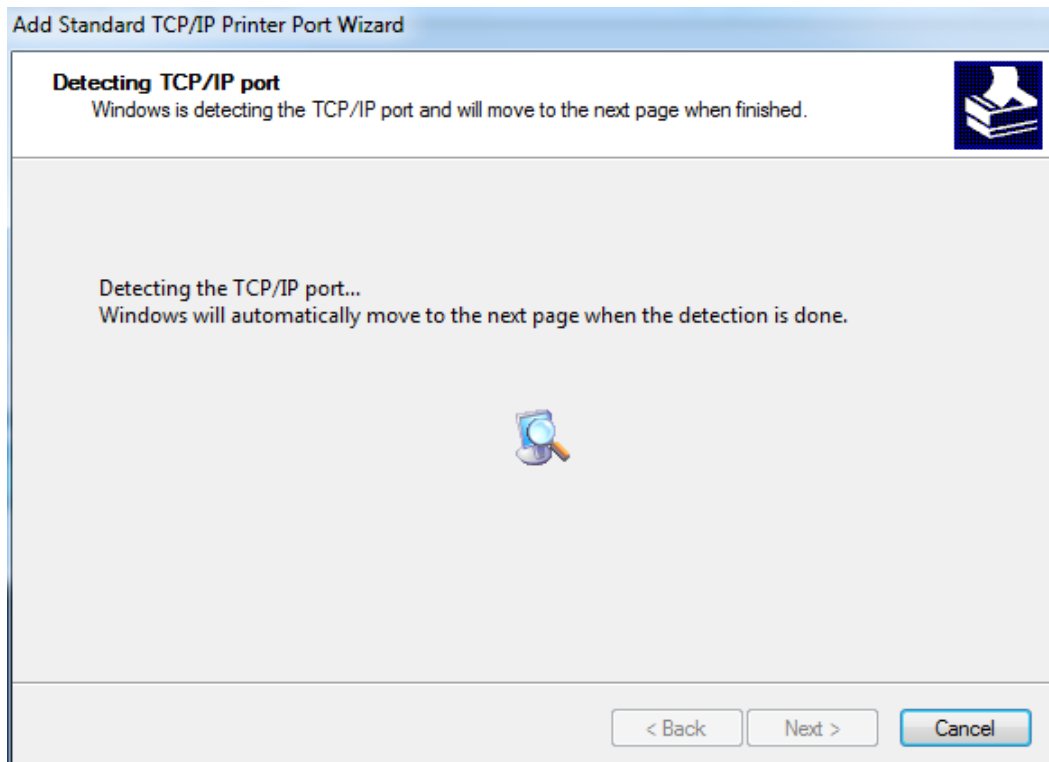
Enter the Printer Name or IP address, and a port name for the desired device.

Printer Name or IP Address: 192.168.10.7

Port Name: 192.168.10.7

< Back Next > Cancel

4-5-4-5) Click 'Next'.

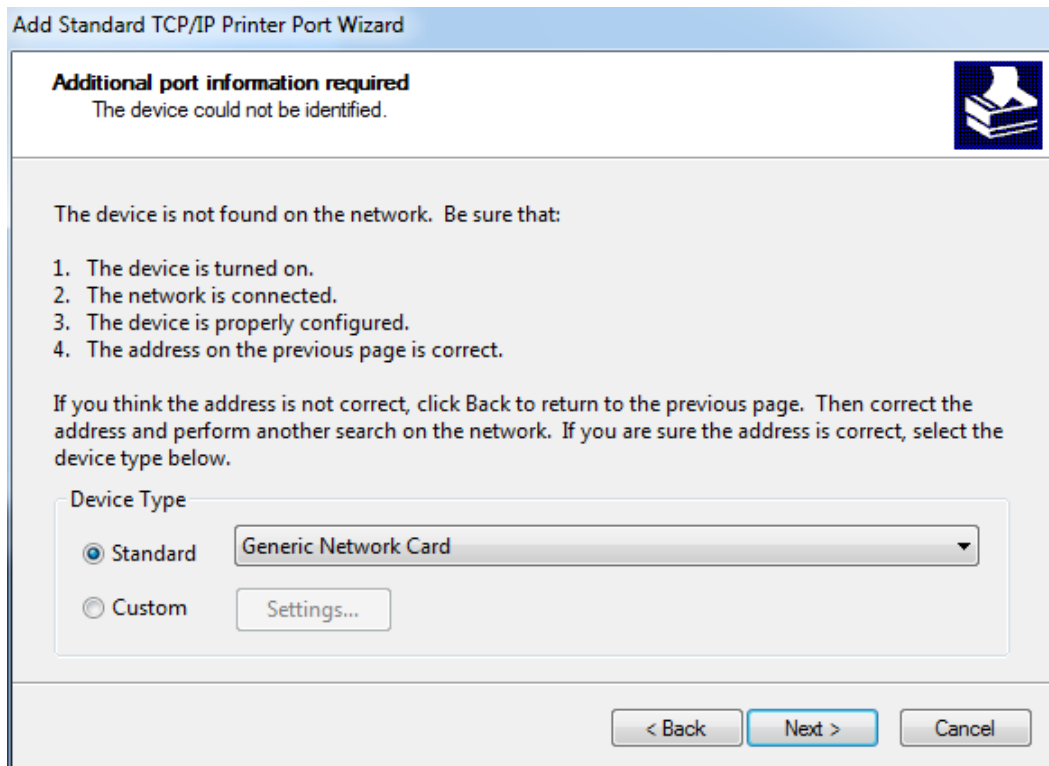


Detecting TCP/IP port
Windows is detecting the TCP/IP port and will move to the next page when finished.

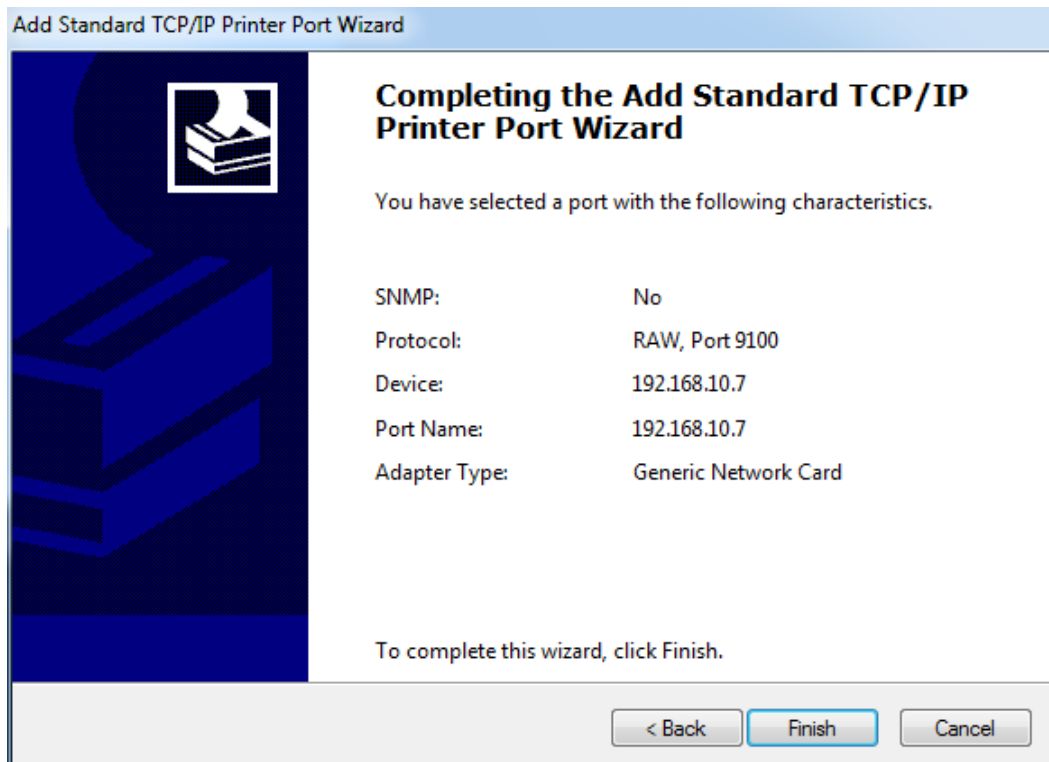
Detecting the TCP/IP port...
Windows will automatically move to the next page when the detection is done.

< Back Next > Cancel

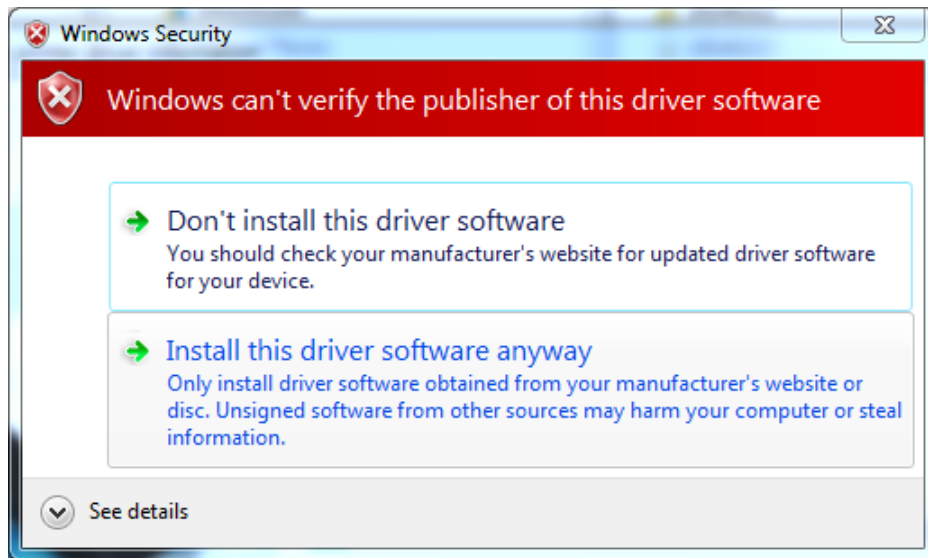
4-5-4-6) Click 'Next'.



4-5-4-7) Check set up detail and click 'Next'.

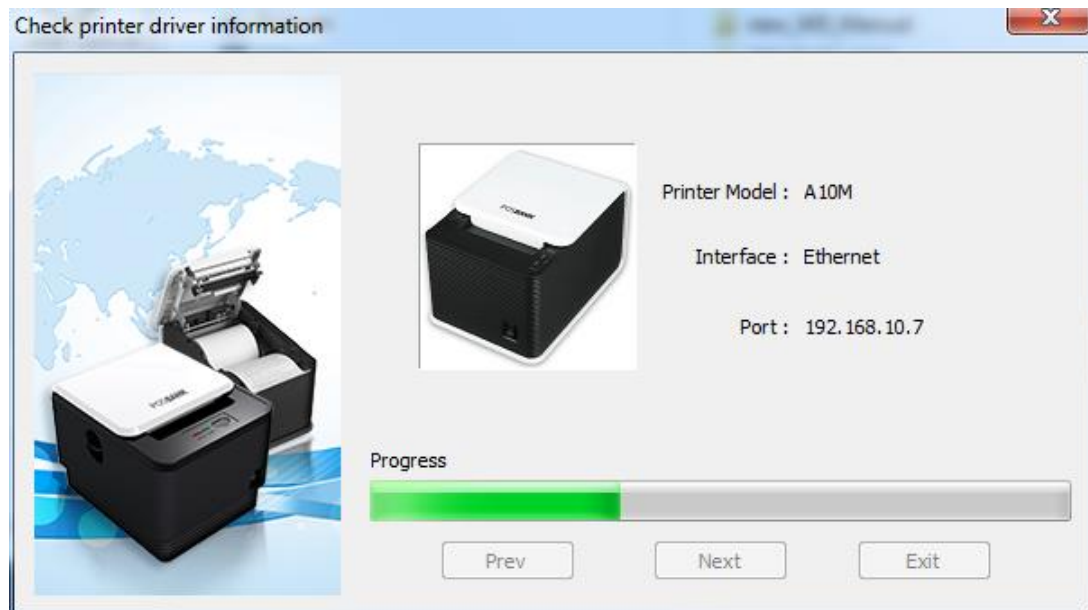


4-5-4-8) Click 'Install this driver software anyway'.

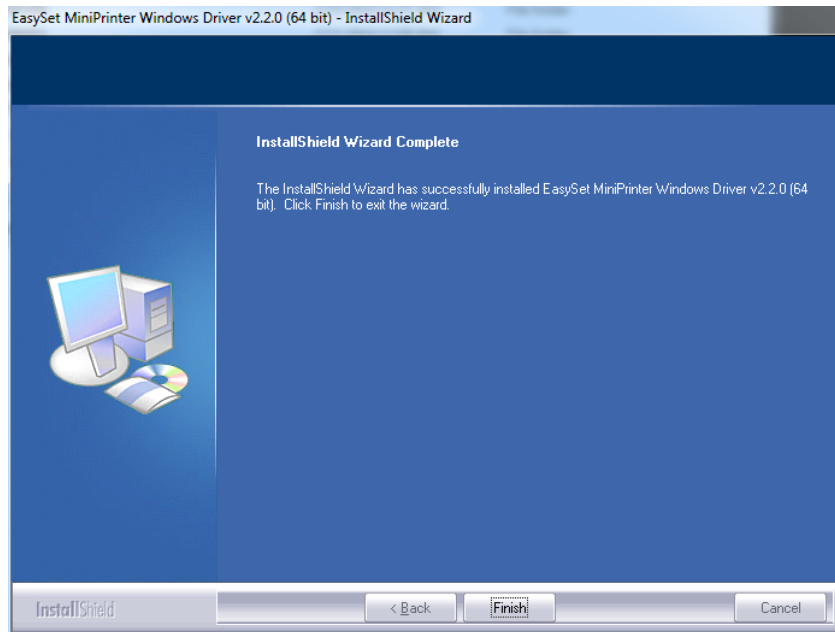


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4-5-4-9) Finish setting.

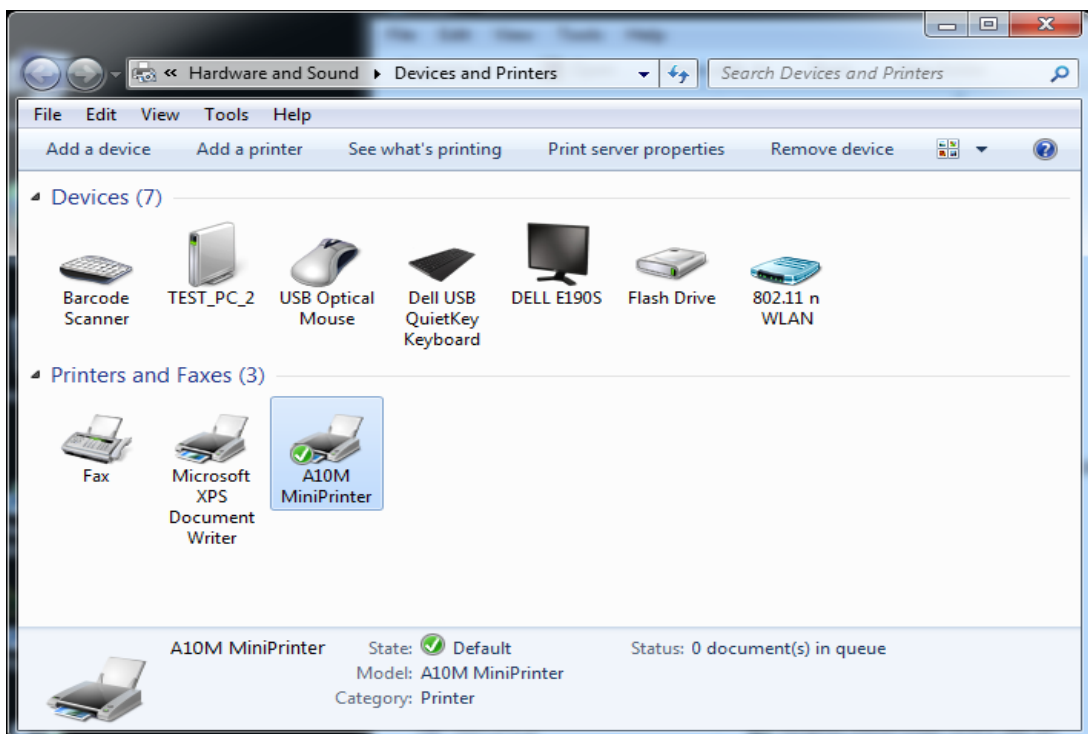


4-6) Finish installing Printer driver.

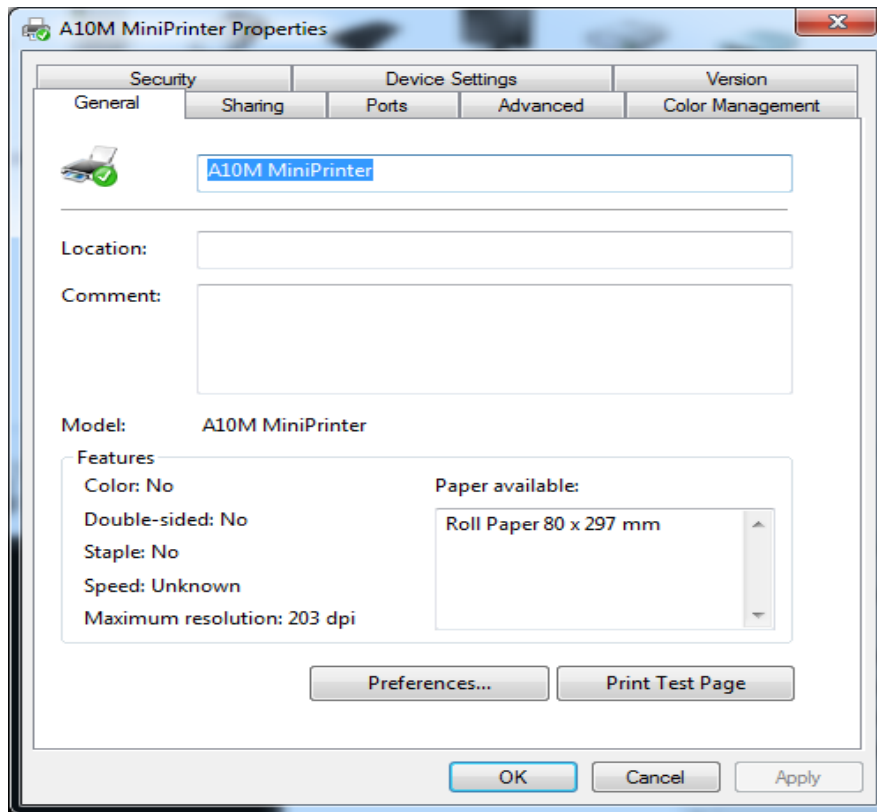


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4-7) Open 'Devices and Printers' at Control panel in Windows O/S.

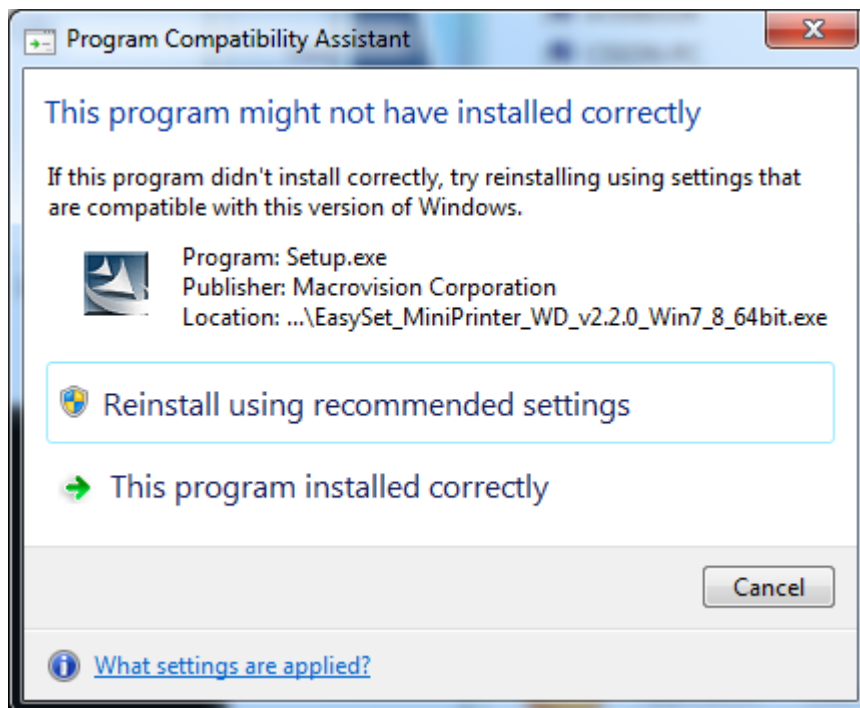


4-8) Check printing condition by clicking 'Print Test Page'.



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4-9) If 'Program Compatibility Assistant' message pops up during installing or deleting driver, click 'This program installed correctly'.



5. Windows Printer Driver Installation for Windows 8

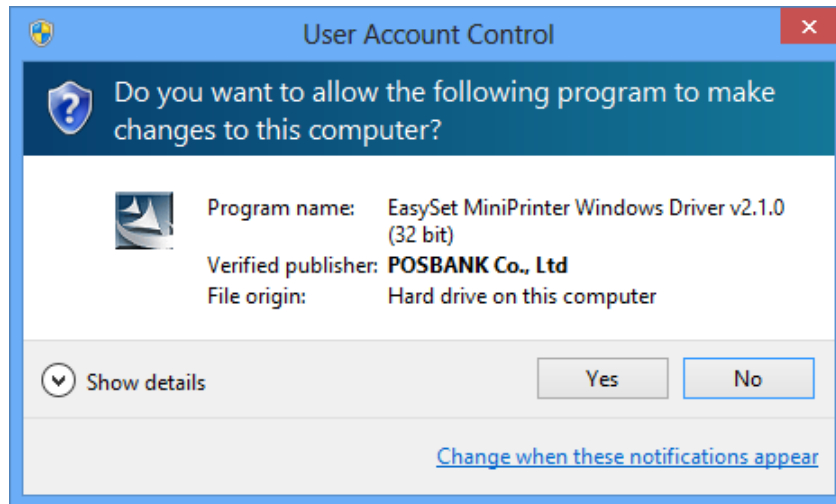
5-1) Double click Windows Driver Set up file.

Posbank windows driver gets Microsoft WHQL certification.

In both 32-bit and 64-bit O/S can be started with

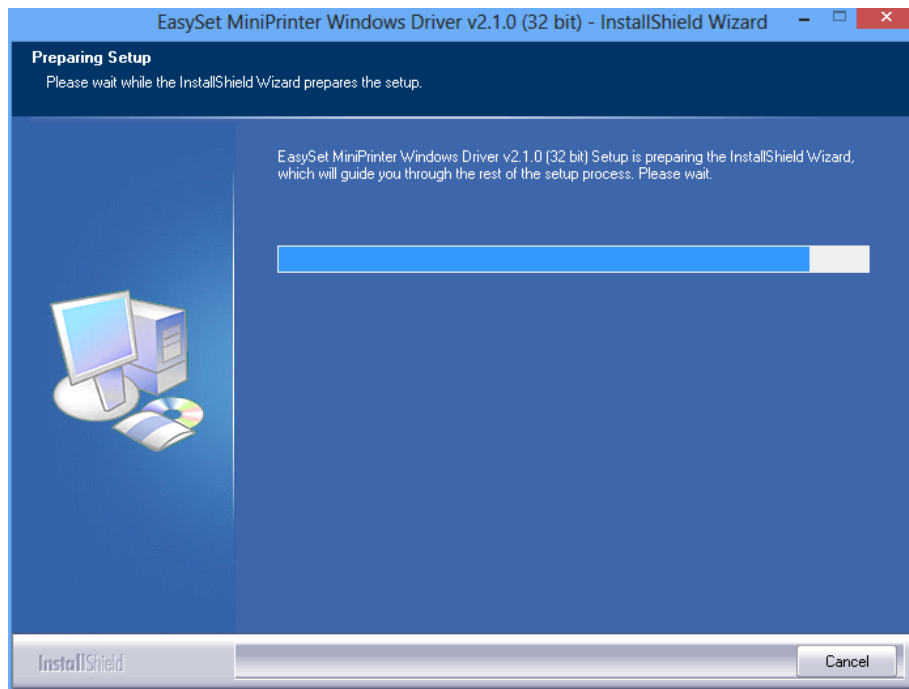
'EasySet_MiniPrinter_WD_Win7_8_v2.3.x.exe' using 'Run as administrator'.

5-2) Click 'Yes' of User Account Control(UAC) message box.



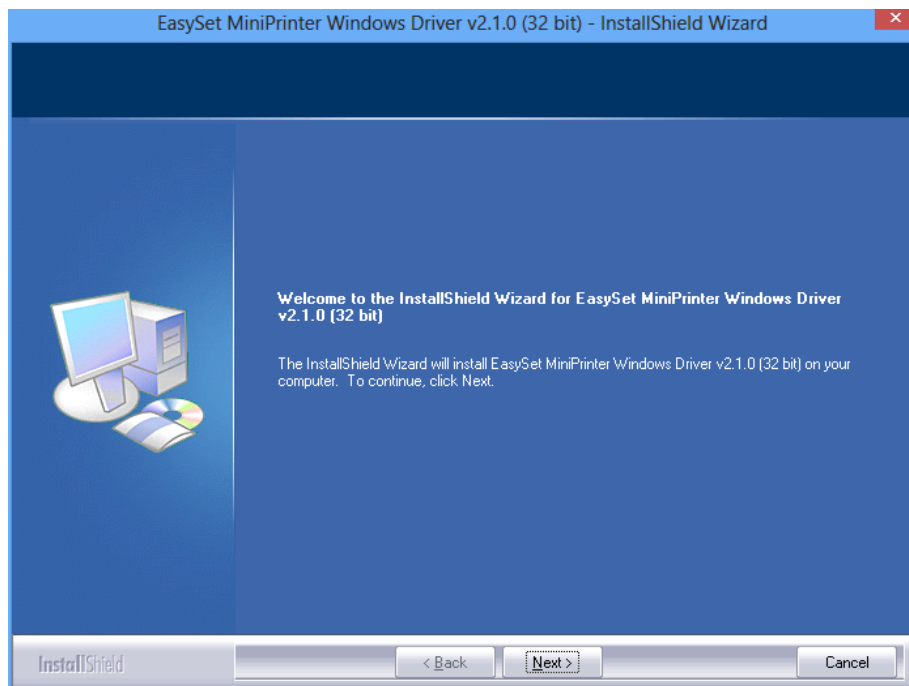
Description: UAC (User Account Control) is one of the major security-enhanced program by Microsoft Windows Vista. By giving different privileges to each account, it prevents system damage from unnecessary software. This message doesn't affect using our software.

5-3) Start Printer Driver Installation.

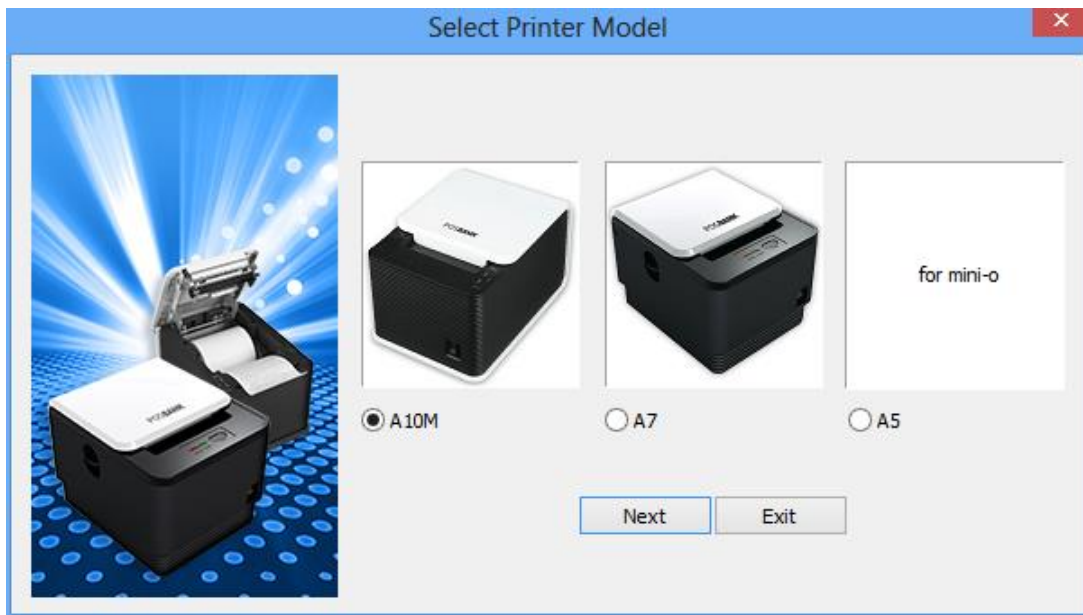


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5-4) Click 'Next' to continue installing the driver.



5-5) Select Printer Model and click 'Next'.

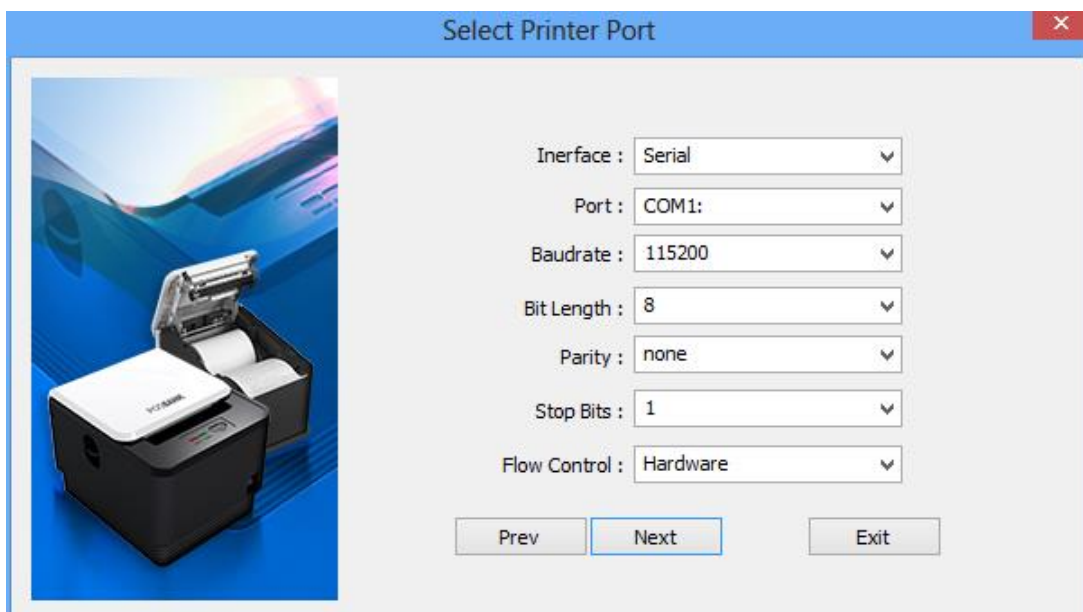


Description: Select A10M for IMPREX inner printer.

Select A5 for Mini-O inner printer.

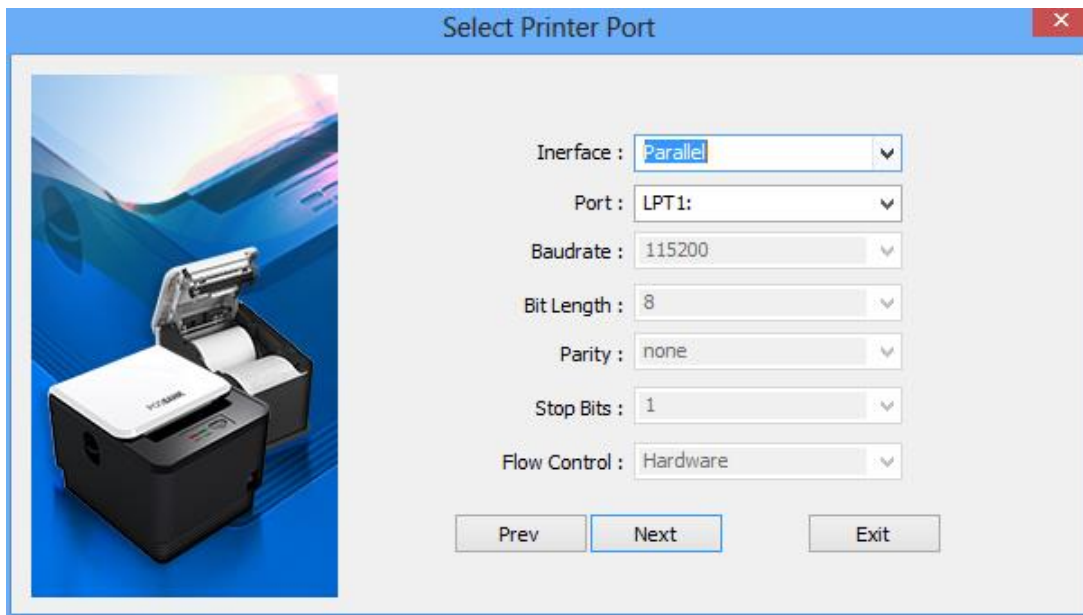
Select A10M for old A9 / A10 models.

5-5-1) In case of using Serial Port, select Serial for Interface.



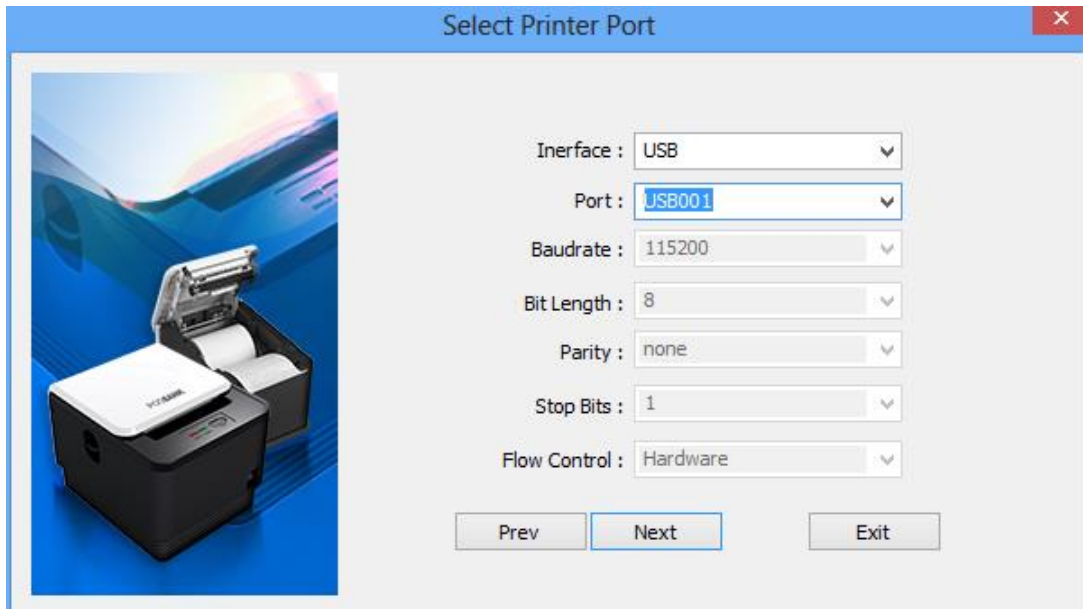
Description: You can check Interface of Printer by Self-Test function.

5-5-2) In case of using Parallel Port, select Parallel for Interface and click 'Next'.



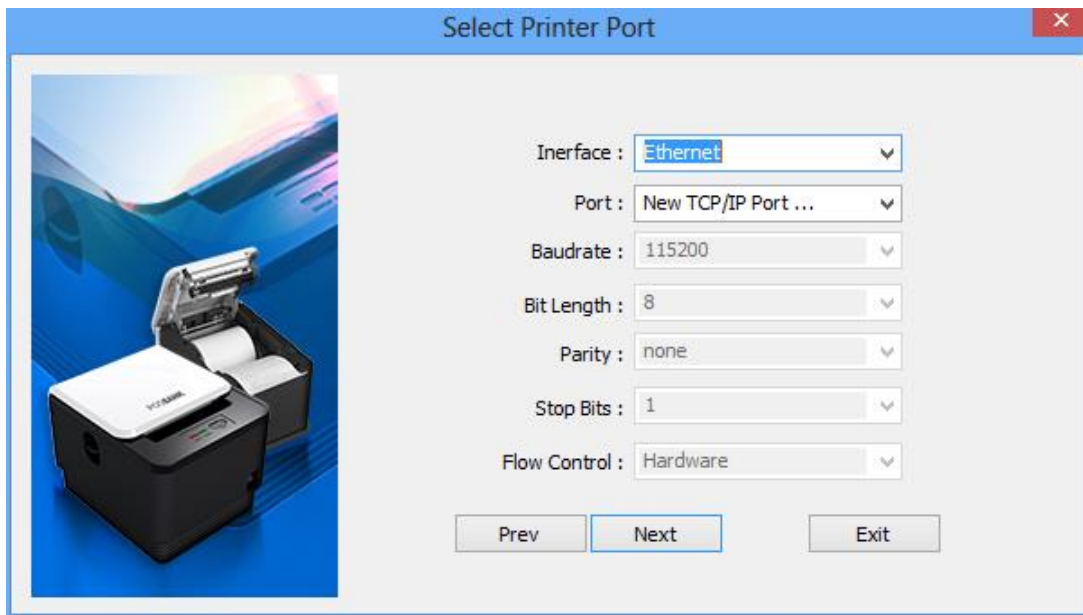
Next steps are as same as Serial Port.

5-5-3) In case of using USB Port, select USB for Interface and click 'Next'.



Next steps are as same as Serial Port.

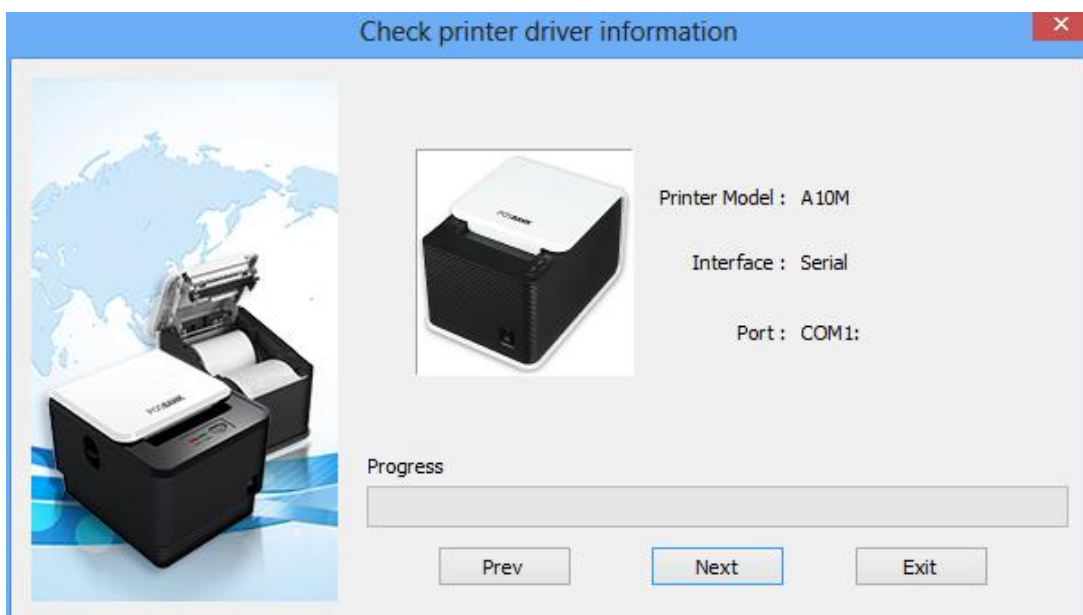
5-5-4) In case of using Ethernet Port, select Ethernet for Interface and click 'Next'.



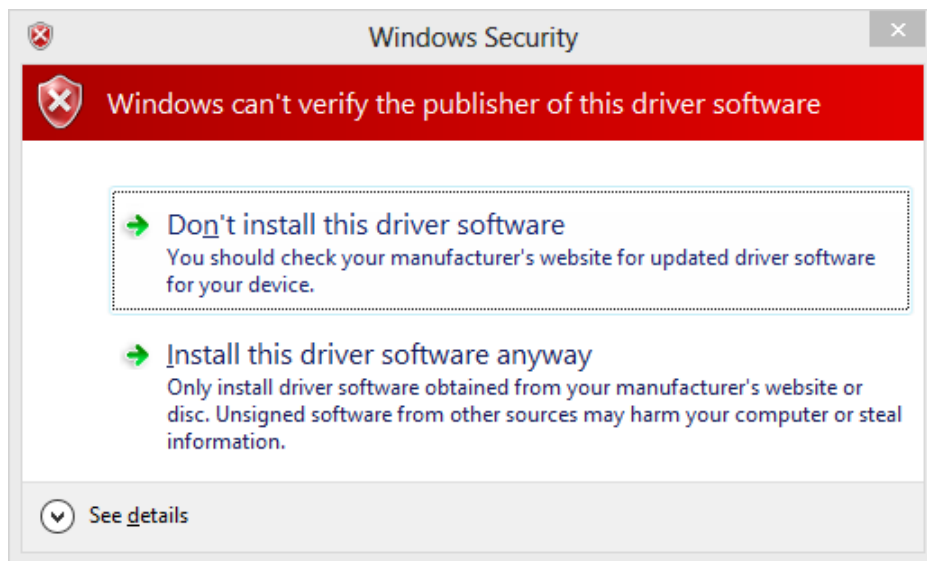
Description: If TCP/IP Port was set up, select it from Port List. If not, select 'New TCP/IP Port...'.

Next steps are as same as Ethernet set up in Windows 7. (Ref.: 4-5-4-2)

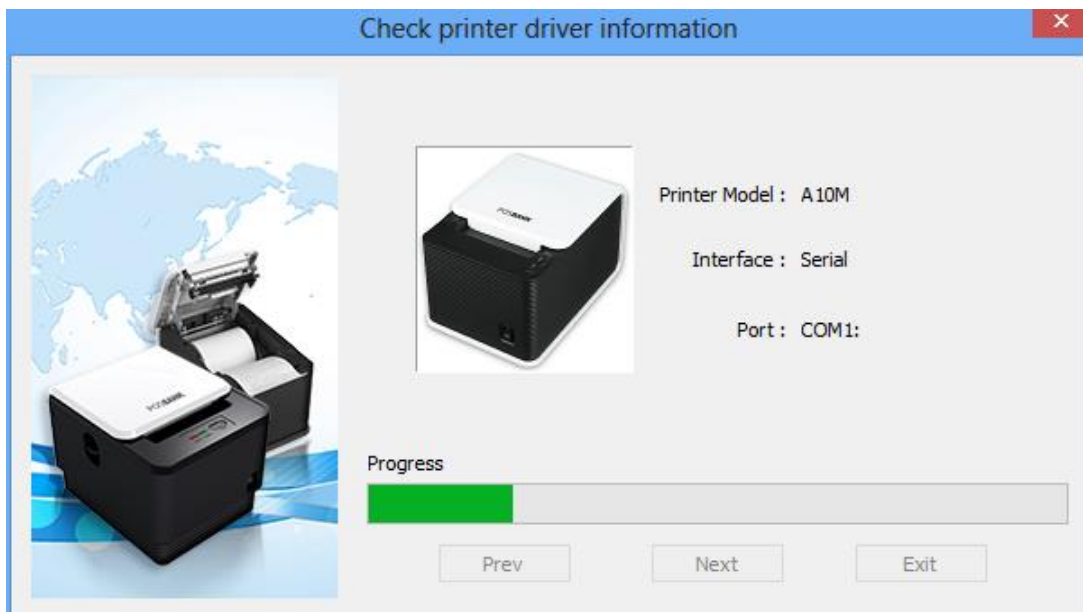
5-5-4-1) Click 'Next'.



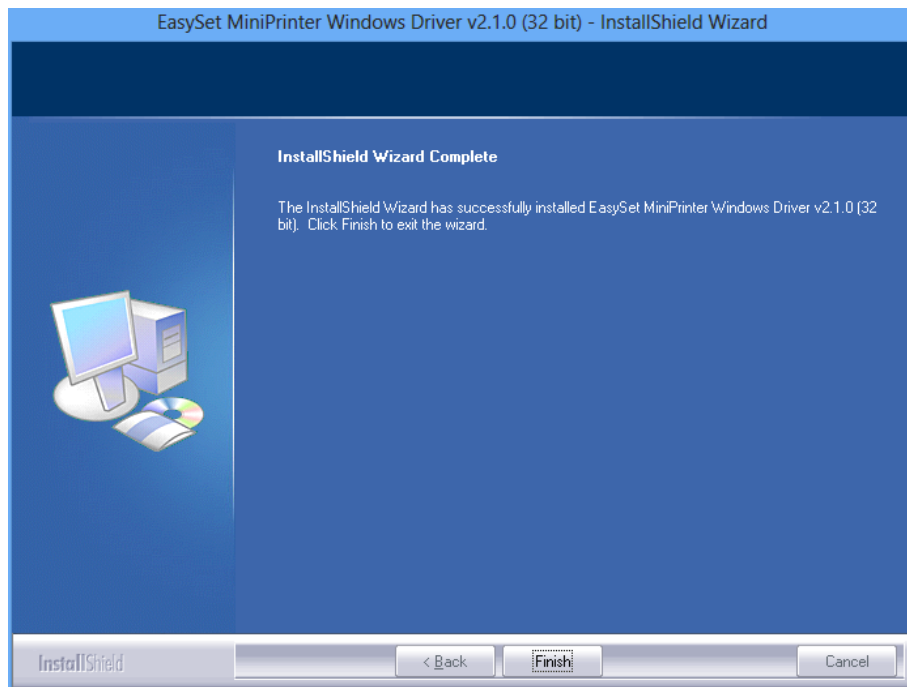
5-6) Click 'Install this driver software anyway'.



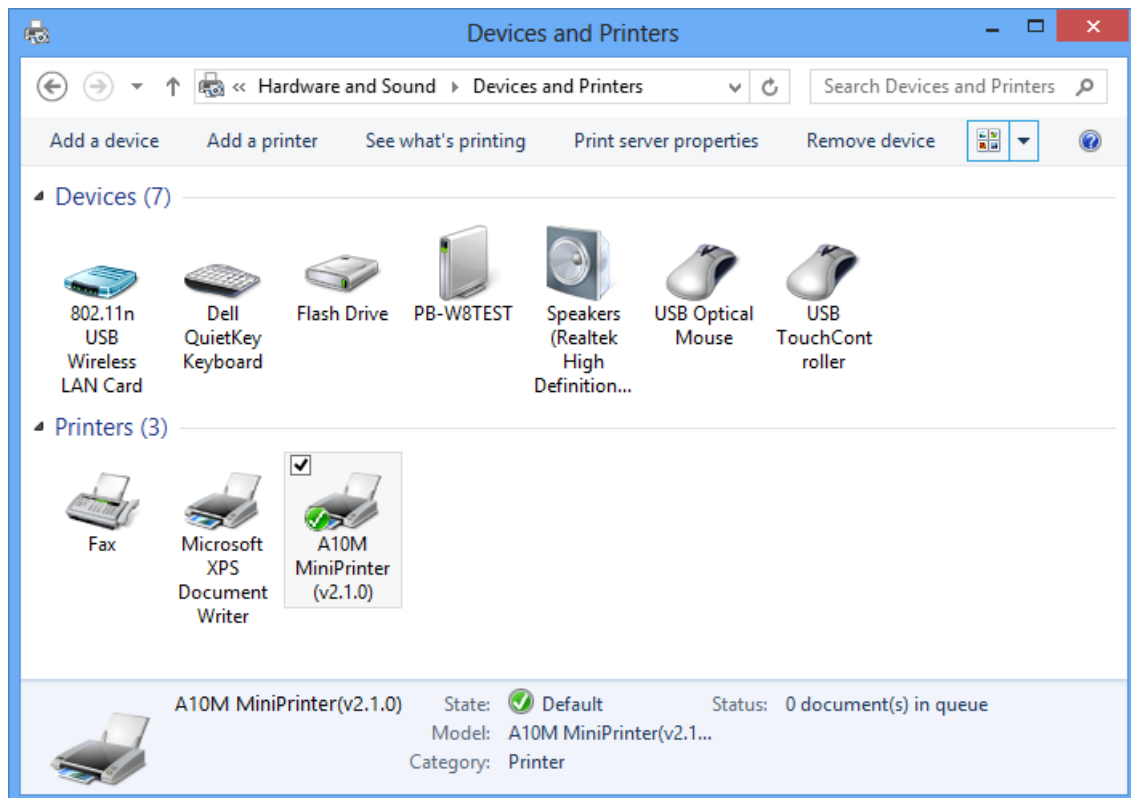
5-7) Finish setting (In case of Serial Port)



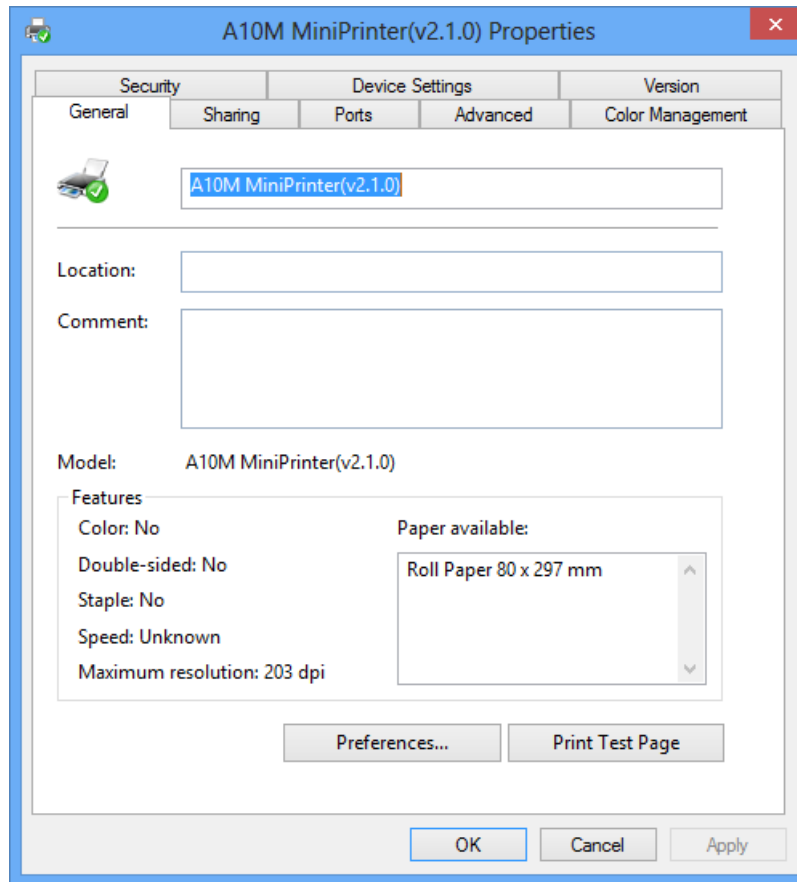
5-8) Finish installing Printer driver.



5-9) Open 'Devices and Printers' at Control panel in Windows O/S.



5-10) Check printing condition by clicking 'Print Test Page'.



6. Windows Printer Driver Installation for Windows 8.1

6-1) Double click Windows Driver Set up file.

Start 'EasySet_MiniPrinter_WD_Win7_8_v2.3.x.exe'

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Posbank windows driver gets Microsoft WHQL certification.

In both 32-bit and 64-bit O/S can be started with

'EasySet_MiniPrinter_WD_Win7_8_v2.3.x.exe' using 'Run as administrator'.

Next steps are as same as directions from 5-2) in '5. Windows Printer Driver Installation for Windows 8'.

7. Windows Driver detail setting

After finishing Windows Printer Driver installation, you can set up the details of below features.

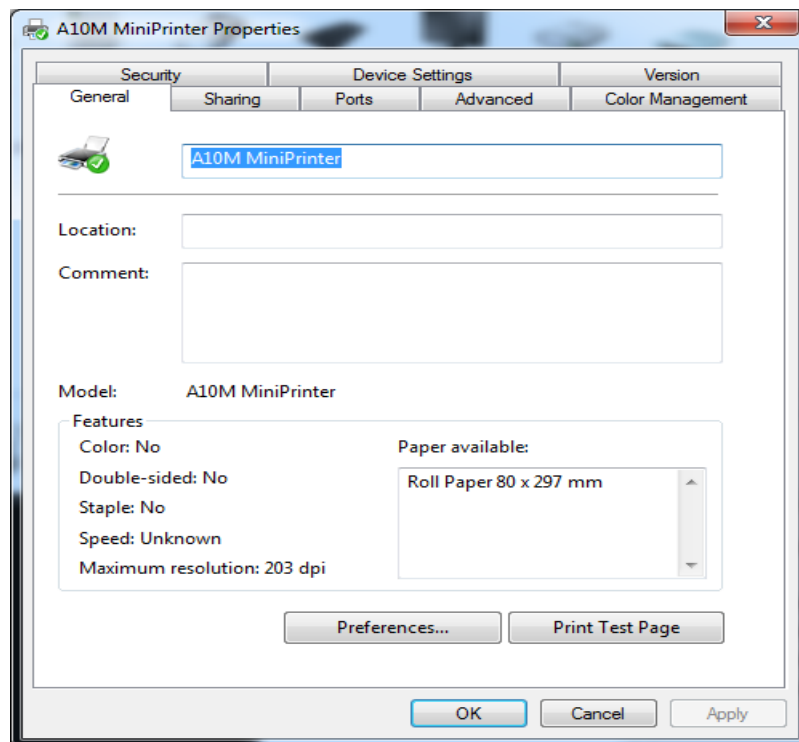
7-1) Selecting Paper size

You can select Paper size from the table below

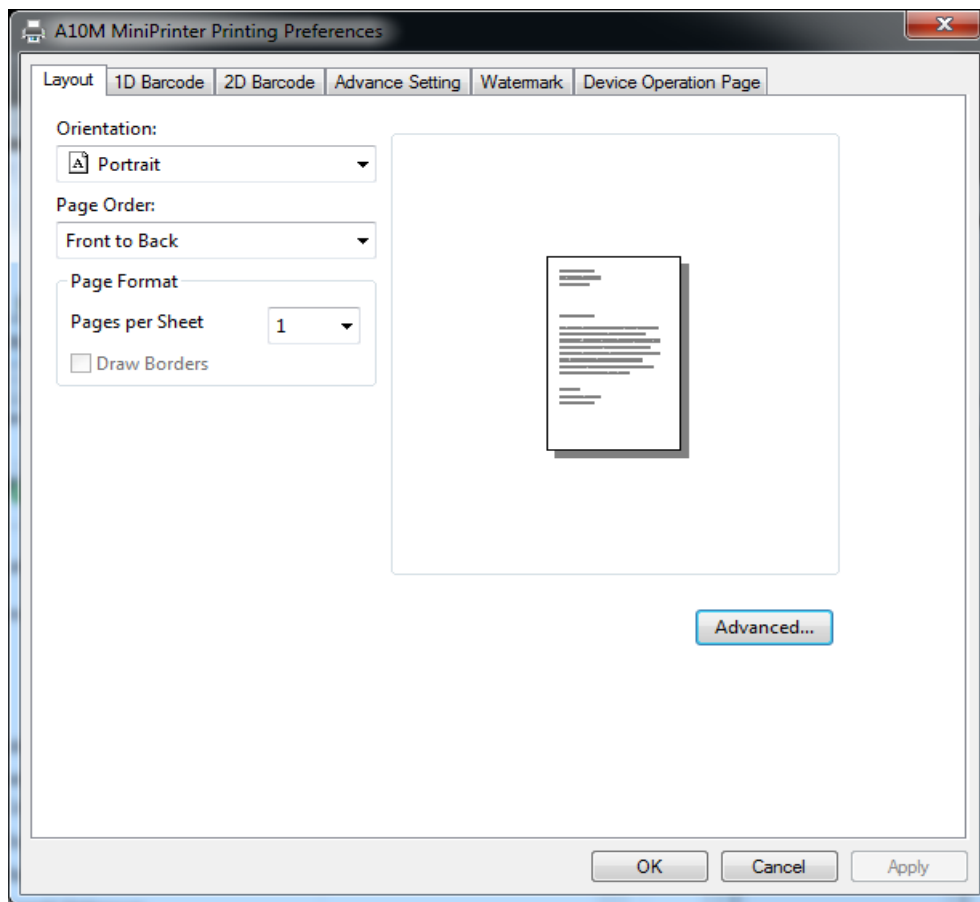
3-inch	2- inch
80 x 40 mm	58 x 40 mm
80 x 80 mm	58 x 80 mm
80 x 120 mm	58 x 120 mm
80 x 160 mm	58 x 160 mm
80 x 200 mm	58 x 200 mm
80 x 297 mm (default)	58 x 297 mm
80 x 3276 mm	58 x 3276 mm
80 x 5000 mm	58 x 5000 mm

7-2) Description and setting of Functions

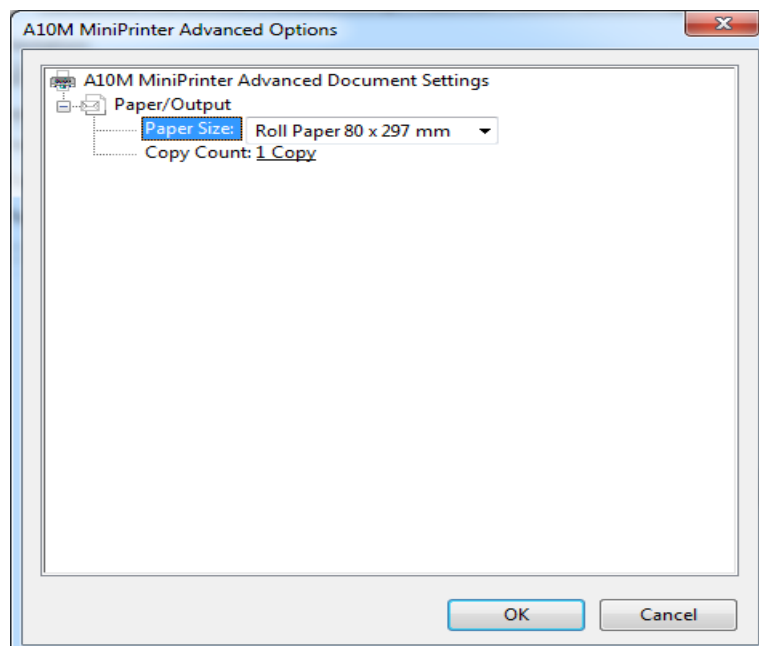
1) Open 'Printer Properties'.



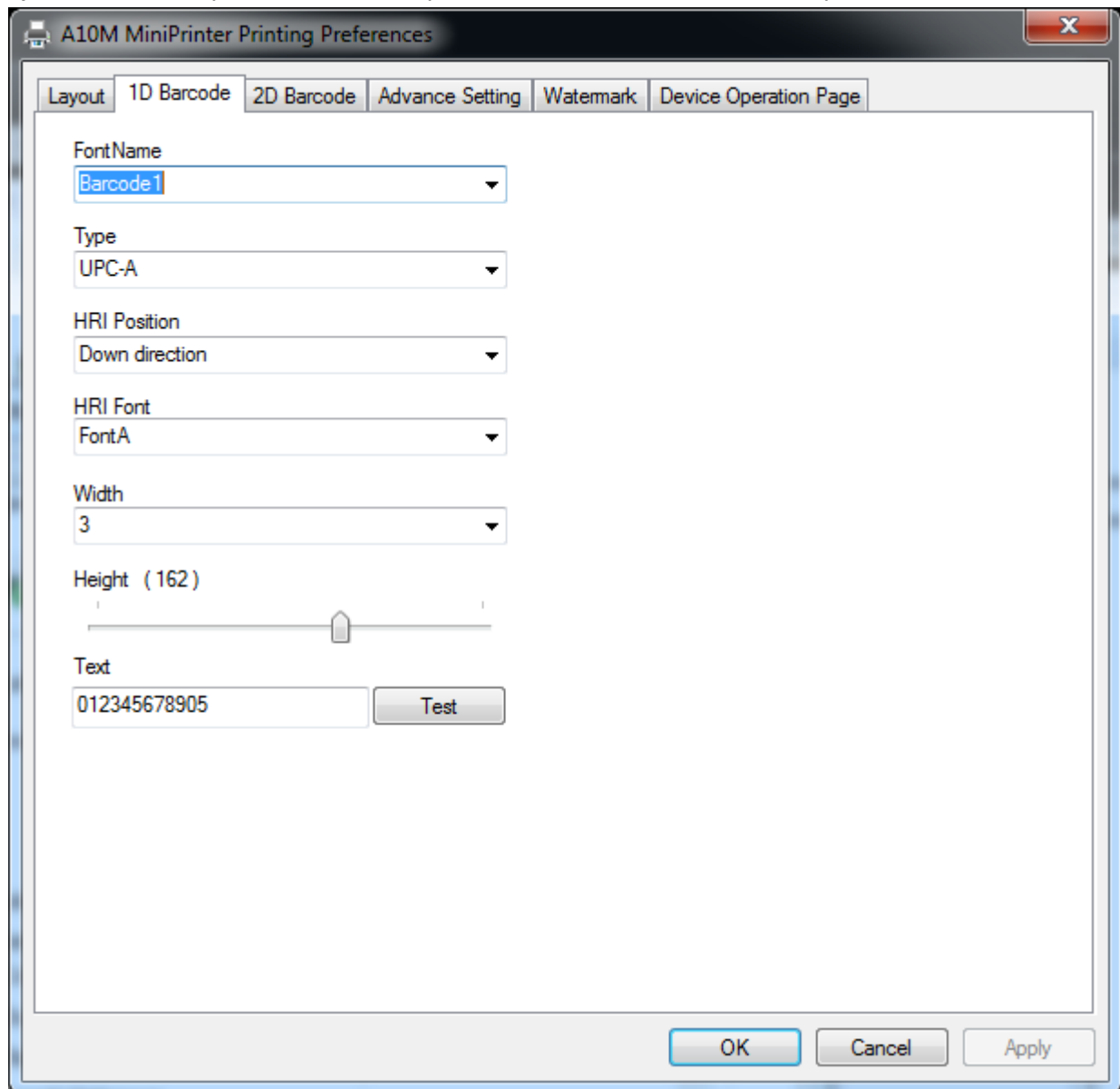
2) Click 'Printing Preferences' in 'General' tab.



3) Click 'Advanced' button on lower right, and select 'Paper Size'.



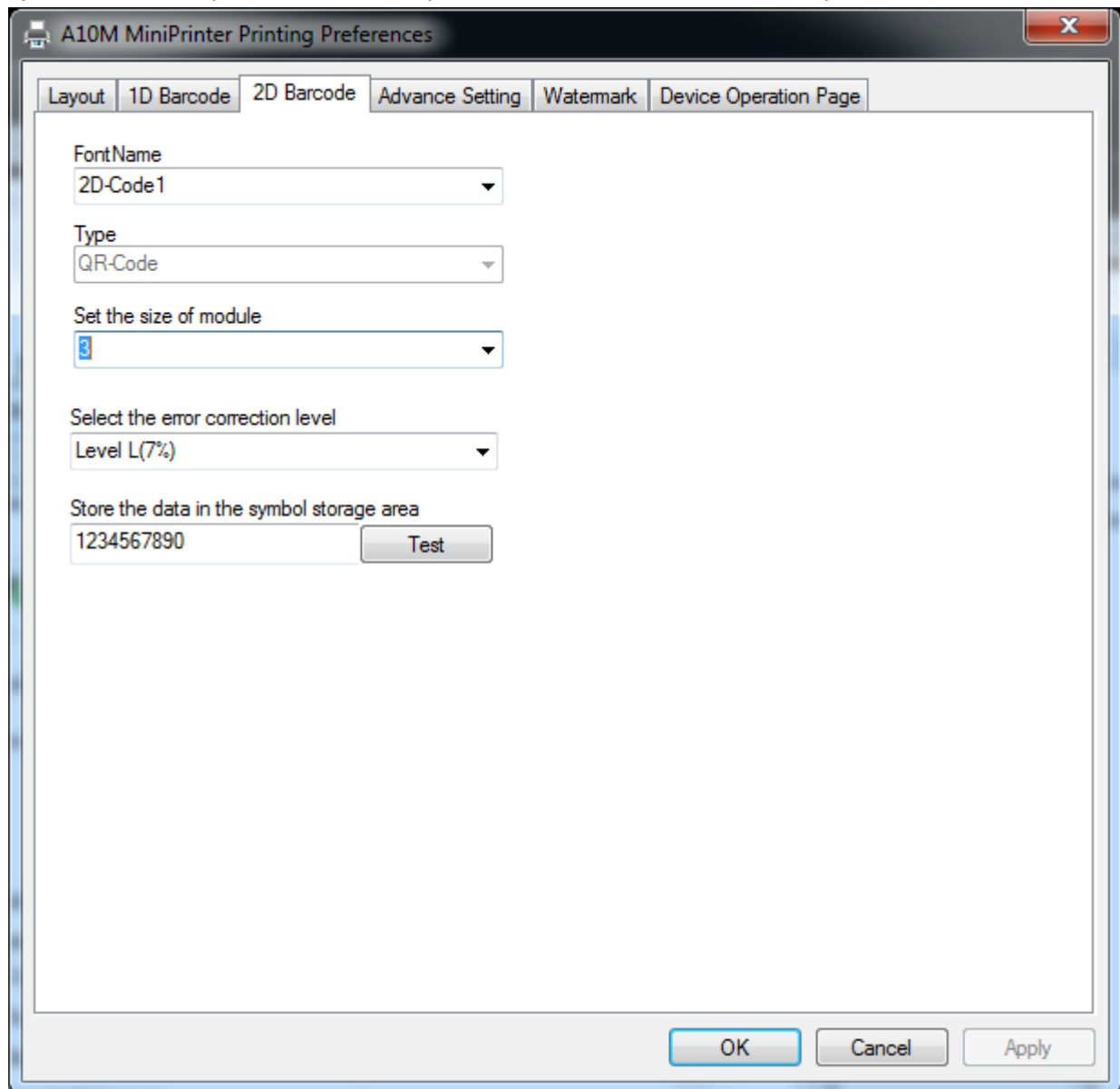
- 4) You can set up Font Name and print out 9 kinds of Barcode sample in '1D Barcode' tab.



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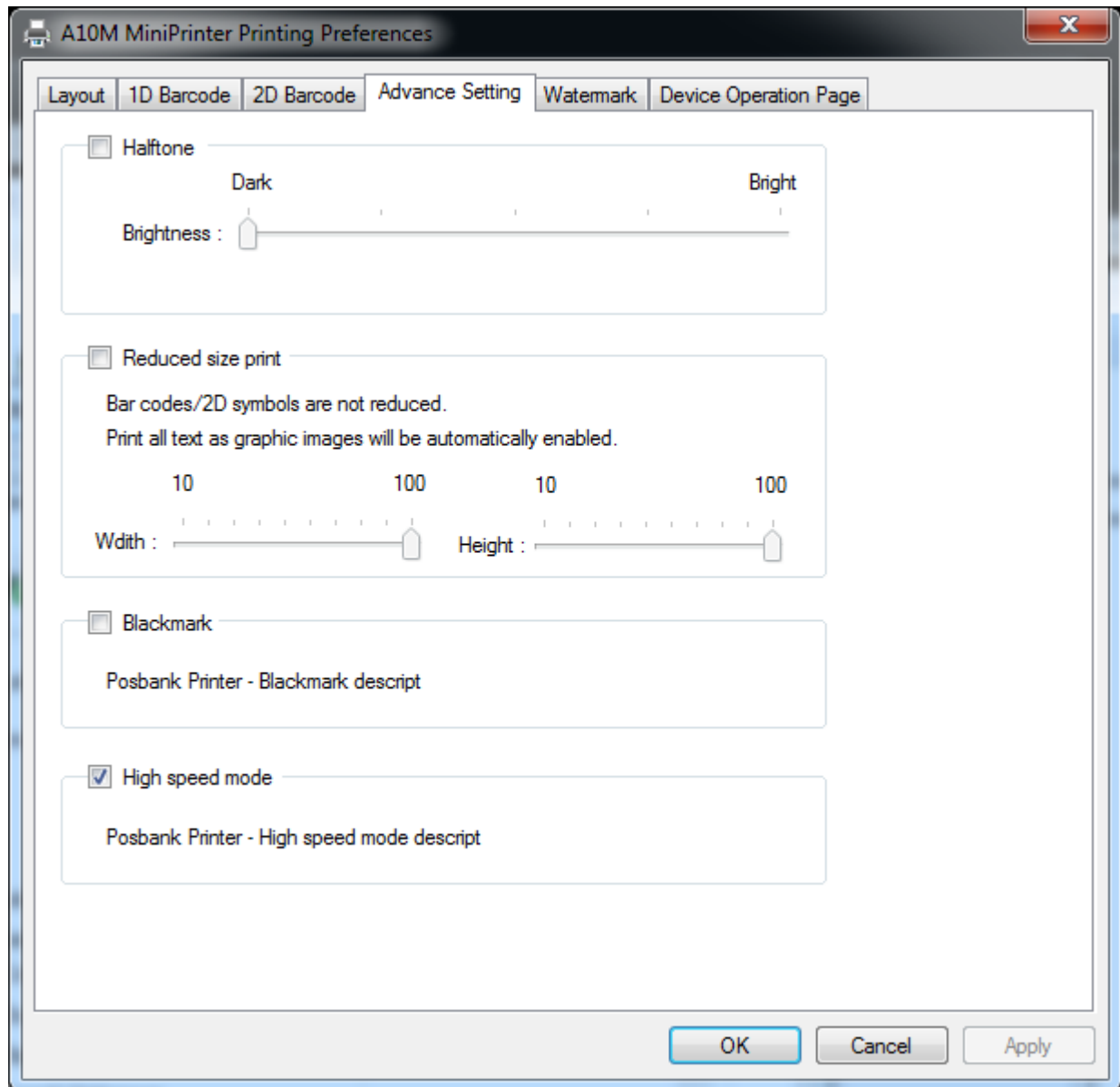
All kinds of Printer support this feature

5) You can set up Font Name and print out 2 kinds of Barcode sample in '2D Barcode' tab.



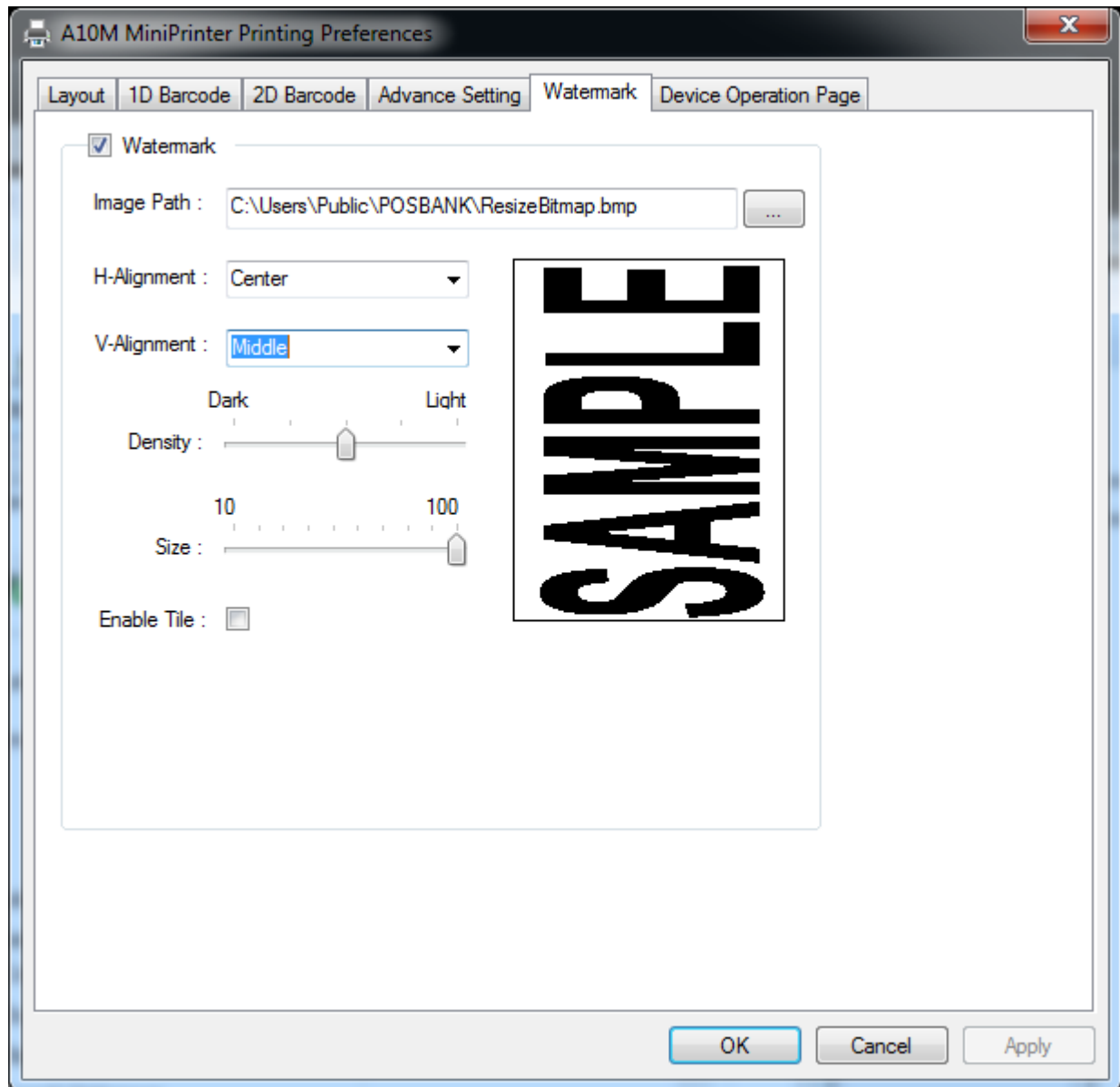
It supports 2D Barcodes, QR-Code and PDF417. (New A10M Printer supports this feature. PDF417 is available from New A10M firmware ver. P5.xx.)

6) You can set up Halftone, Reduced size print, Blackmark, and High speed mode in 'Advanced Setting' tab.



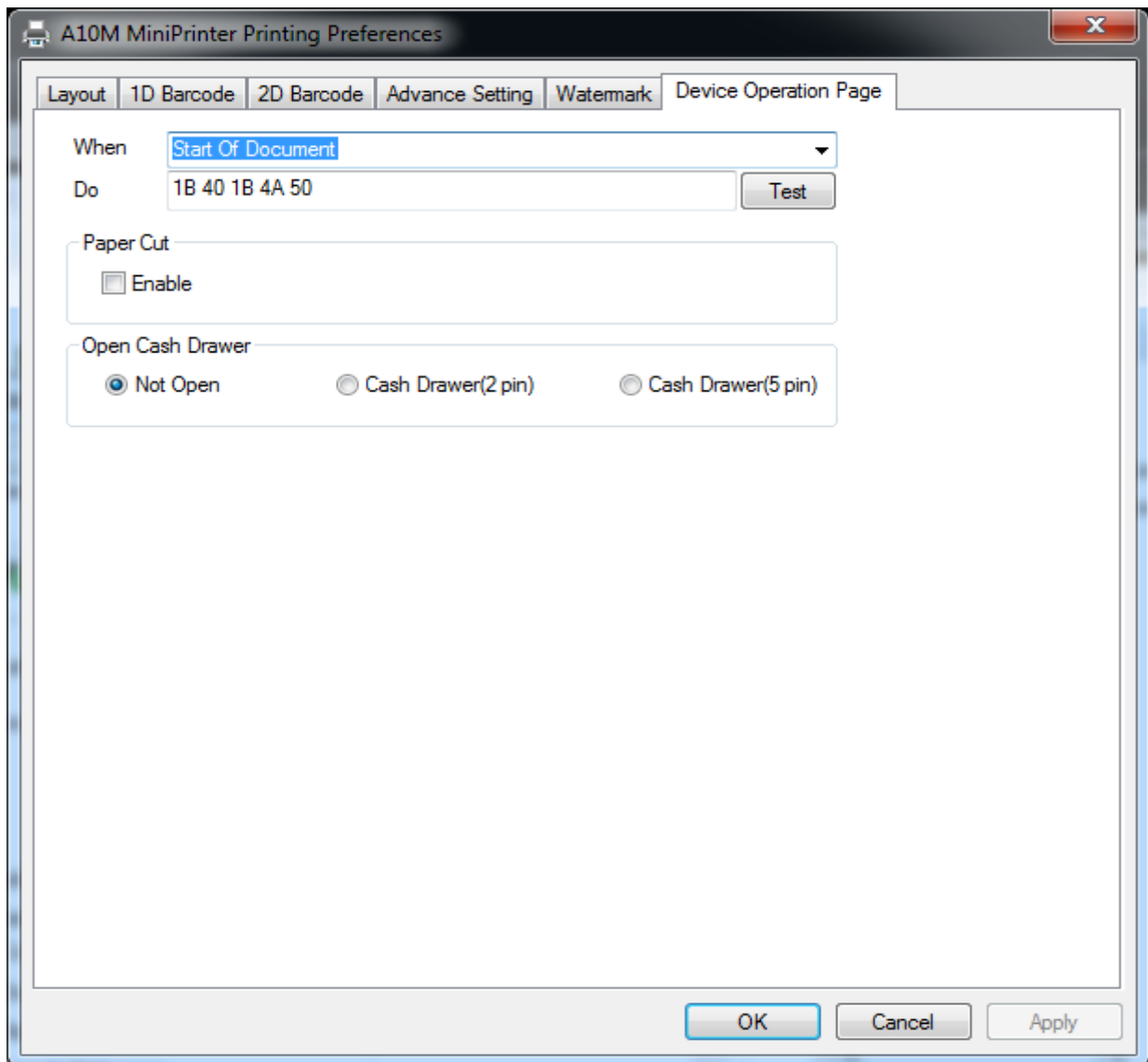
- Halftone: Setting up density of printed images.
- Reduced size print: Resizing height and width of original image. This feature helps you to save thermal paper.
- Blackmark: Connecting Blackmark feature of Printer device and Windows driver (Only available for New A10M model.).
- High speed mode: Speeding up printing time by compressing original low speed (Serial 9600bps) image. (Only available from New A10M model and firmware ver. P5.xx.)

- 7) You can print out image on the background of thermal paper in 'Watermark' tab. It supports setting up density and position of the image.



- Only monochromatic bitmap image is available for Watermark. You can set the position of image by H-Alignment and V-Alignment. It supports changing density and size depending on the purpose. Same image can be printed on whole printed area by Tile function.
- Text mode will be changed to Graphic mode automatically when you select Watermark function.
- Watermark function may slow down printing speed because of bitmap images are increased. We suggest you to use USB or Ethernet interface.
- All kinds of Printer support this feature.

- 8) You can set various 'Additional Commands' for printed image in 'Device Operation Page' tab (All kinds of Printer support this feature.).



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Windows driver receives contents of printed image from Application and send to printer device.

Options are as below.

- Start of Document
- Start of Page
- End of Document
- End of Page

Follow directions below for setting details.

- 1) Open 'Devices and Printers' in each Windows O/S.
- 2) Click 'Device Operation Page' tab.
- 3) When you download image by using NVImage Uploader, you can use image print commend.
- 4) Please refer 'control instruction manual' for applicable hexadecimal to 'Emulation Command'.
 - If you want to print first image before you print document content,
Select 'Start of Document' and enter '1C 70 01 00' to 'Emulation Command'.
 - If you want to print second image before you print document content,
Select 'End of Document' and enter '1C 70 02 00' to 'Emulation Command'.
- 5) If you want to open Cash Drawer, select cash drawer from 'Open Cash Drawer'.
 - Select 'Start of Document' and then 'Cash Drawer [2pin]', if you want to open cash drawer before printing document content.
 - Select 'End of Document' and then 'Cash Drawer [2pin]', if you want to open cash drawer after printing document content.

8. Specifications of Windows Driver

8-1 Fonts

Windows Printer Driver supports Fonts in below table. It helps to print faster than using Windows fonts in O/S.

8-1-1 Fonts for Users

Printer Fonts			Fonts size(dot)	Sizes(point)
FontA11	FontA11[Ext.]	FontA11[255]	FontA11 (14x28)	10
FontA12	FontA12[Ext.]	FontA12[255]	FontA12 (14x56)	20
FontA21	FontA21[Ext.]	FontA21[255]	FontA21 (28x28)	10
FontA22	FontA22[Ext.]	FontA22[255]	FontA22 (28x56)	20
FontA24	FontA24[Ext.]	FontA24[255]	FontA24 (28x112)	40
FontA42	FontA42[Ext.]	FontA42[255]	FontA42 (56x56)	20
FontA44	FontA44[Ext.]	FontA44[255]	FontA44 (56x112)	40
FontA48	FontA48[Ext.]	FontA48[255]	FontA48 (56x224)	80
FontA84	FontA84[Ext.]	FontA84[255]	FontA84 (112x112)	40
FontA88	FontA88[Ext.]	FontA88[255]	FontA88 (112x224)	80
FontB11	FontB11[Ext.]	FontB11[255]	FontB11 (10x20)	7
FontB12	FontB12[Ext.]	FontB12[255]	FontB12 (10x40)	14.
FontB21	FontB21[Ext.]	FontB21[255]	FontB21 (20x20)	7
FontB22	FontB22[Ext.]	FontB22[255]	FontB22 (20x40)	14.
FontB24	FontB24[Ext.]	FontB24[255]	FontB24 (20x80)	28.5
FontB42	FontB42[Ext.]	FontB42[255]	FontB42 (40x40)	14.
FontB44	FontB44[Ext.]	FontB44[255]	FontB44 (40x80)	28.5
FontB48	FontB48[Ext.]	FontB48[255]	FontB48 (40x160)	57
FontB84	FontB84[Ext.]	FontB84[255]	FontB84 (80x80)	28.5
FontB88	FontB88[Ext.]	FontB88[255]	FontB88 (80x160)	57

Printer Fonts			Fonts size(dot)	Sizes(point)
KoreaA11	KoreaA11 [Ext.]	KoreaA11 [255]	KoreaA11 (28x28)	10
KoreaA12	KoreaA12 [Ext.]	KoreaA12 [255]	KoreaA12 (28x56)	20
KoreaA21	KoreaA21 [Ext.]	KoreaA21 [255]	KoreaA21 (56x28)	10
KoreaA22	KoreaA22 [Ext.]	KoreaA22 [255]	KoreaA22 (56x56)	20
KoreaA24	KoreaA24 [Ext.]	KoreaA24 [255]	KoreaA24 (56x112)	40
KoreaA42	KoreaA42 [Ext.]	KoreaA42 [255]	KoreaA42 (112x56)	20
KoreaA44	KoreaA44 [Ext.]	KoreaA44 [255]	KoreaA44 (112x112)	40
KoreaA48	KoreaA48 [Ext.]	KoreaA48 [255]	KoreaA48 (112x224)	80

KoreaA84	KoreaA84 [Ext.]	KoreaA84 [255]	KoreaA84 (224x112)	40
KoreaA88	KoreaA88 [Ext.]	KoreaA88 [255]	KoreaA88 (224x224)	80
KoreaB11	KoreaB11 [Ext.]	KoreaB11 [255]	KoreaB11 (20x20)	7
KoreaB12	KoreaB12 [Ext.]	KoreaB12 [255]	KoreaB12 (20x40)	14.
KoreaB21	KoreaB21 [Ext.]	KoreaB21 [255]	KoreaB21 (40x20)	7
KoreaB22	KoreaB22 [Ext.]	KoreaB22 [255]	KoreaB22 (40x40)	14.
KoreaB24	KoreaB24 [Ext.]	KoreaB24 [255]	KoreaB24 (40x80)	28.5
KoreaB42	KoreaB42 [Ext.]	KoreaB42 [255]	KoreaB42 (80x40)	14.
KoreaB44	KoreaB44 [Ext.]	KoreaB44 [255]	KoreaB44 (80x80)	28.5
KoreaB48	KoreaB48 [Ext.]	KoreaB48 [255]	KoreaB48 (80x160)	57
KoreaB84	KoreaB84 [Ext.]	KoreaB84 [255]	KoreaB84 (160x80)	28.5
KoreaB88	KoreaB88 [Ext.]	KoreaB88 [255]	KoreaB88 (160x160)	57

8-1-2 Meaning of Printer Fonts

1) FontA11

- Support ANSI Character code (Code page 16:1252)
- Font size (dot): 14 x 56 (Height: x 2)
- Font size (point): 20

2) FontA12[Ext.]

- Support IBM expansion Character code (Code page 0:437)
- Font size (dot): 14 x 56 (Height: x 2)
- Font size (point): 20

3) FontA12[255]

- Support customized code (Code page 255)
- Font size (dot): 14 x 56 (Height: x 2)
- Font size (point): 20



Windows hardware certification report: Approved

Submission ID: 1657573
Submission date: 6/2/2014
Hardware certification completion date: 6/2/2014
Company: POSBANK Co., Ltd
Product name: POSBANK
Category: Device
Product type: Printer
Qualification level: Logo - Device - Compatible with Windows 7
Logo - Device - Compatible with Windows 7 x64
Marketing names: N/A

Additional information:
Firmware version: 1.0



Windows hardware certification report: Approved

Submission ID: 1657545
Submission date: 6/2/2014
Hardware certification completion date: 6/3/2014
Company: POSBANK Co., Ltd
Product name: POSBANK
Category: Device
Product type: Printer
Qualification level: Certified for Microsoft Windows 8 Client family, x86
Certified for Microsoft Windows 8 Client family, x64
Marketing names: N/A

Additional information:
Firmware version: 1.0

9. FAQ

Problem :

During the installation of the driver, "Failed to Install the Printer Driver" is generated, and is interrupted. Driver installation was successful in but not printed.

Answer :

1. Turn off the printer. (In the case of USB communication, you unplug the cable.)
2. It wants to remove all of the installed printer driver.
3. Click , go to **[Devices and Printers]**.
4. Choose "EASYSET PBP_Axxx" or "Axxx MiniPrinter", right click on the icon, and then click **[Remove device]** to remove all of the printer..
5. Choose [Fax] or [Microsoft XPS Document Writer] in the **[Printers and Faxes]** window, and then click **[Print server properties]**, which appears in the menu bar.
6. Click the **[Drivers]** tab.
7. Choose "EASYSET PBP_Axxx" or "Axxx MiniPrinter", and then click **[Remove...]**.
8. Choose **[Remove driver and driver package.]** and click **[Yes]**
Follow the on-screen instructions.
9. Close the **[Print Server Properties]** windows.
10. According to the manual the latest printer driver, you want to re-install.