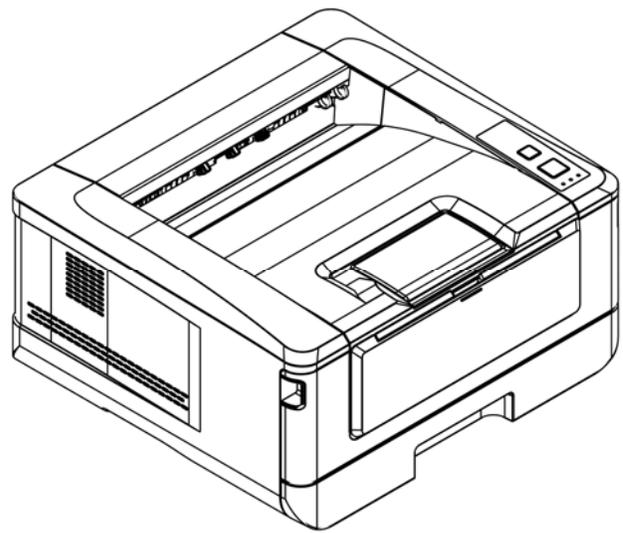


Avision

A4 Digital Printer

AP30 Series User's Guide



Avision Inc.

Safety Information

When using this equipment, the following safety precautions should always be followed.

Safety During Operation

In this manual, the following important symbols are used:

 **WARNING:**

Indicates potentially hazardous situations, which if instructions are not followed, could result in death or serious injury.

 **CAUTION:**

Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

Important:

Indicates operational requirements and restrictions. Please read and follow these instructions to ensure a proper operation and to avoid damage to the machine.

Note:

Indicates further explanation or clarification. Reading this is highly recommended.

 **WARNING:**

To avoid hazardous electric shock or fire, do not remove any covers or screws other than those specified in this manual.

 **CAUTION:**

- ✓ To reduce the risk of fire, use only no.26AWG or larger telecommunication line cord.
- ✓ Disconnect the power plug by pulling the plug, not the cable.
- ✓ Do not touch the metal fingers of the ADF pad module. The edges are sharp and touching them may result in injury.

SAFETY INSTRUCTION

This printer is a page printer which is operated by means of a LSU (Laser Scanning Unit) printhead. There is no possibility of danger from the LSU printhead, provided the printer is operated according to the instructions in this manual. Since radiation emitted by the LSU printhead is completely confined within protective housings and external covers, the LSU beams cannot escape from the machine during any phase of user operation.

- Do not place a coffee cup, vase, or other liquid-filled container on the machine. Spillage can damage the machine's electrical parts and insulation.
- Take care not to drop paper clips, staples, or any other metal objects into the machine.
- When clearing paper jams, refer to the instructions in this manual.
- Before disconnecting the plug, turn the machine off. Make sure your hands are dry. Hold the plug itself, not its cord, when disconnecting it from the receptacle.
- Never attempt to open any fixed cover.
- Do not attempt to alter the machine or its parts.
- Under normal conditions the small quantities of ozone gas produced by the machine are harmless. However, if the machine is used for an extended period or within a small room, you should make sure that the area is adequately ventilated. Also ventilate the room if you notice the machine smells after a period of frequent or extended use.
- Do not modify this product, as a fire, electrical shock, or breakdown could result. If the product employs a LSU printhead, the LSU beam source could cause blindness.
- Do not attempt to remove the covers and panels which have been fixed to the product. Some products have a high-voltage part or a LSU beam source inside that could cause an electrical shock or blindness.
- If this product becomes inordinately hot or emits smoke, or unusual odor or noise, immediately turn OFF the power switch, unplug the power cord from the power outlet, and then call your authorized service representative. If you keep on using it as is, a fire or electrical shock could result.
- If this product has been dropped or its cover damaged, immediately turn OFF the power switch, unplug the power cord from the power outlet, and then call your authorized service representative. If you keep on using it as is, a fire or electrical shock could result.
- The inside of this product has areas subject to high temperature, which may cause burns. When checking the inside of the unit for malfunctions such as paper mis-feed, do not touch the locations (around the fusing unit, etc.) which are indicated by a "Caution! Hot Surface" caution label.
- Do not store the machine's consumables in any of these locations:
 - Where the temperature or humidity may be excessively high.
 - Where flammable items or liquids are stored.
 - In direct sunlight.
 - In dusty conditions.

Precautions

- Do not install the equipment near heating or air conditioning units.
- Do not install the equipment in a humid or dusty place.
- Place the equipment securely on an even, flat surface. Tilted or uneven surfaces may cause mechanical or paper-feeding problems.
- Retain the box and packing materials for shipping purposes.

Copyrights and Trademarks

Ethernet is a registered trademark of Xerox Corporation.

Microsoft, Windows, Windows NT, Windows XP, Windows Vista, and Windows 7, 8, 9, 10 are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Other product names used herein are for identification purposes only and may be trademarks of their respective companies. We disclaim any and all rights to those marks.

Warranty

The information contained in this document(s) is subject to change without notice.

The manufacturer makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of fitness for a particular purpose.

The manufacturer shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Federal Communications Commission (FCC) compliance information statement

Part 15

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



European Union Regulatory Notice

Products bearing the CE marking comply with the following EU Directives:

- Low Voltage Directive 2014/35/EC
- EMC Directive 2014/30/EC
- Restriction of the use of certain hazardous substances (RoHS) Directive 2011/65/EU
- RED (Radio Equipment Directive) (2014/53/EC)

This product satisfies the Class B limits of EN55022, EN55024, safety requirements of EN 60950 and ROHS requirements of EN50581.

*This machine is certified as Class 1 Laser product.

Product Safety Guide

Please clearly read all these instructions, and follow all instructions and warnings before installing and using the device.

The following indications are used in this document to obviate any chance of accident or damage to you and/or the device.

 WARNING	Indicates potentially hazardous situations, which if instructions are not followed, could result in death or serious injury.
 CAUTION	Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

WARNING

- Use only the USB cable that came with your device and avoid abrasions, cuts, fraying, crimping, and kinking. Using any other USB cable could cause fire, electrical shock, or injury.
- Place the device close enough to the computer so that the interface cable can easily reach between the device and the computer.
- Do not place or store the device:
 - Outdoors
 - Near excessive dirt or dust, water, or heat sources
 - In locations subject to shocks, vibrations, high temperature or humidity, direct sunlight, strong light sources, or rapid changes in temperature or humidity
- Do not use the device with wet hands.
- Never disassemble, modify, or attempt to repair the device or device option by yourself, except as specifically explained in the device's documentation. This could cause fire, electrical shock, or injury.
- Unplug the device and the USB cable, and refer servicing to qualified service personnel under the following conditions:
 - Liquid has entered the device.
 - Object has entered the device.
 - The device has been dropped, or the case has been damaged.
 - The device does not operate normally (i.e. appearance of smoke, strange smell, odd noise, etc.), or exhibits a distinct change in performance.
- Unplug the device and the USB cable before cleaning.

 **CAUTION:**

- Do not locate the device on rickety or aslope tables. Do not locate the device on unstable surface. The device may fall down and this may result in injury.
- Do not place heavy objects on the unit. It may cause unbalance and the device may fall down. This may result in injury.
- Store the AC Power cord/USB cable bundled out of the reach of children to avoid the risk of injury.
- Keep plastic bags bundled out of the reach of children to avoid the danger of suffocation.
- If you are not going to use the device for a long period, unplug the USB cable from the electrical outlet.

1. Overview

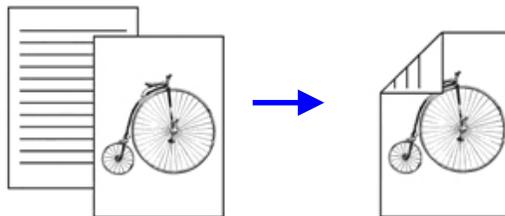
Introduction

Thank you for choosing Avison's state-of-the-art printer which can be used for local and network printing up to A4 size.

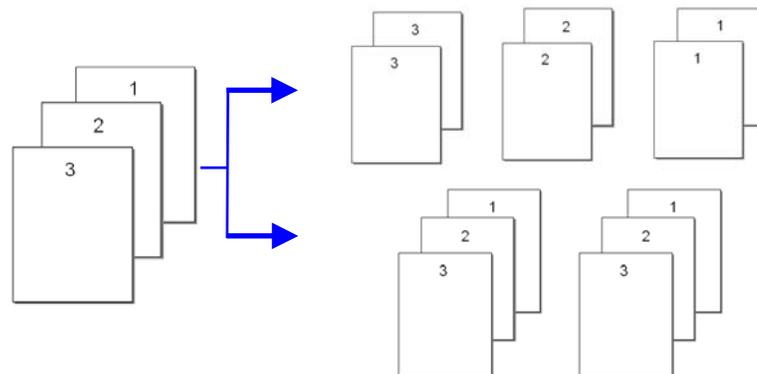
Features

This product provides the following features to make your print out more efficient and effective.

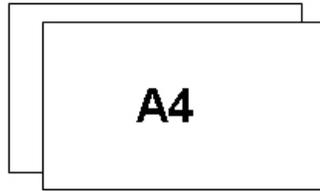
- **Print on Both Sides:** Prints two pages (one on each side) on a single sheet of paper.



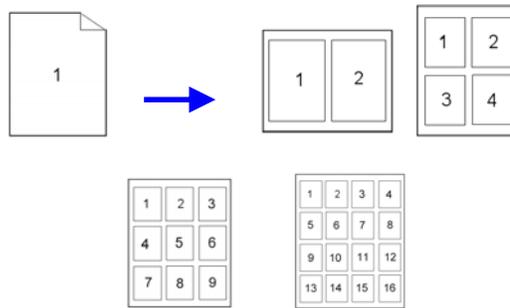
- **Collate:** Prints multiple copies at one time and sorts the printed pages.



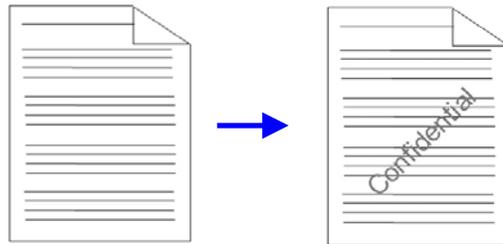
- **Support A4 size:** The product allows you to print up to A4 size.



- **Print Multiple Pages on a Single Sheet:** Prints two or four pages of the original on a single sheet of paper. A maximum of 16 pages can be printed on a single sheet of paper.

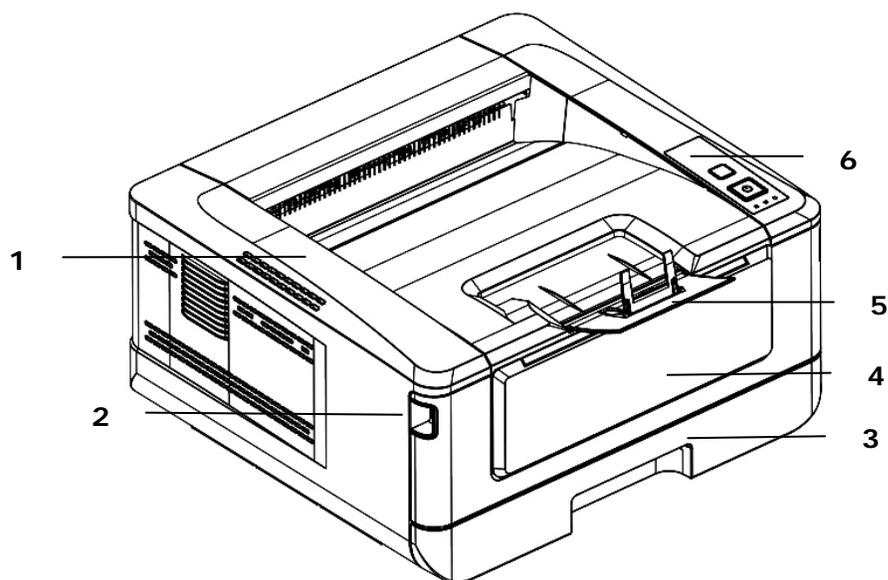


- **Print Watermark:** Print text such as confidential, important content or image in the background.



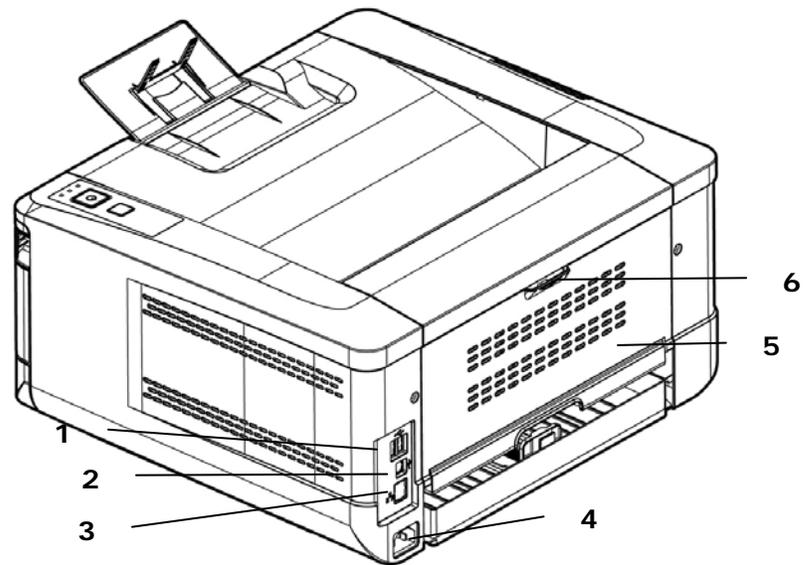
External View

The Front View



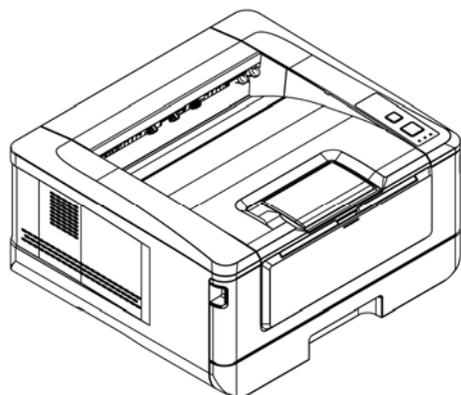
- | | |
|------------------------------|------------------|
| 1. Output Tray | 4. Front Cover |
| 2. Handle of the Front Cover | 5. Paper Stopper |
| 3. Main Paper Tray | 6. Control Panel |

The Rear View



- | | |
|---|-----------------------------|
| 1. USB Port (Type A, to USB flash disk) | 4. Power Receptacle |
| 2. USB Port (Type B, to PC) | 5. Rear cover |
| 3. LAN Port | 6. Handle of the Rear Cover |

Package Contents



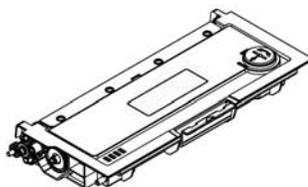
Main unit



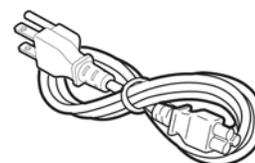
Software CD (Printer Driver,
User Manual)



USB Cable

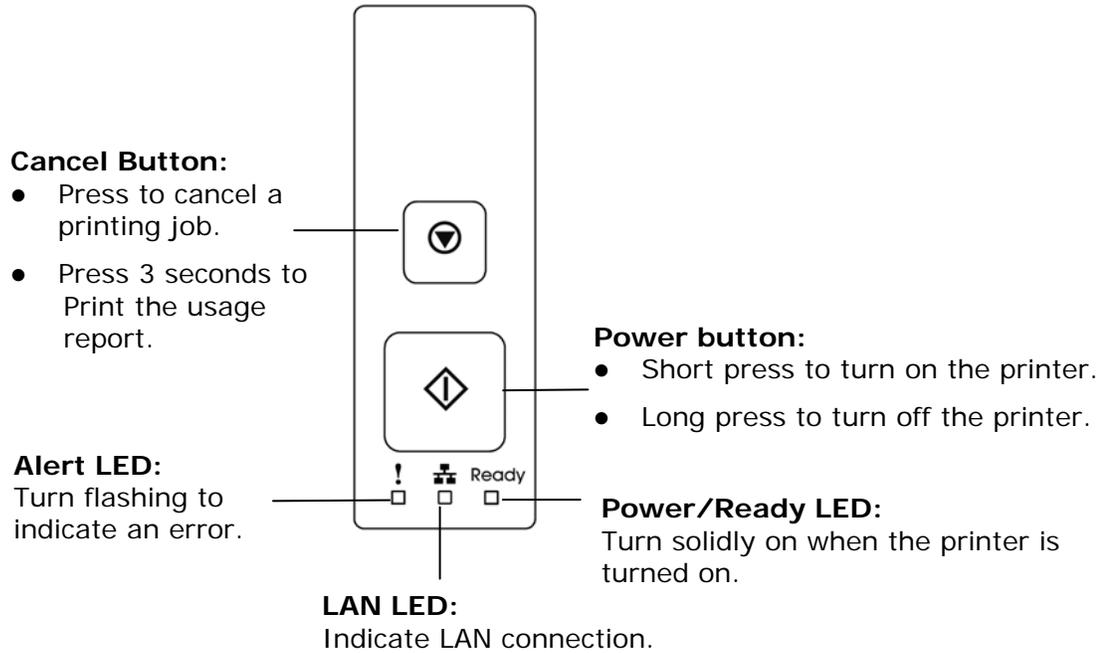


Toner Cartridge



Power Cable

The Control Panel



Preinstallation Information

To use the product as a network device, the following network parameters have to be collected from your network administrator. See the next section (using the Menu to set the networking parameters) to set the network parameters.

1. DHCP Enable:	
2. IP Address:	. . .
3. Subnet mask:	. . .
4. Gateway IP:	. . .

Explanation of contents:

1. *DHCP Enable:	Choose Yes to obtain IP/subnet/gateway addresses automatically from DHCP server.
2. *IP Address:	The Internet Protocol (IP) address assigned to your machine by your network administrator or by DHCP Server.
3. Subnet Mask:	The net mask address assigned by your network administrator or by DHCP Server.
4. Gateway IP:	The gateway IP address assigned by your network administrator or by DHCP Server.



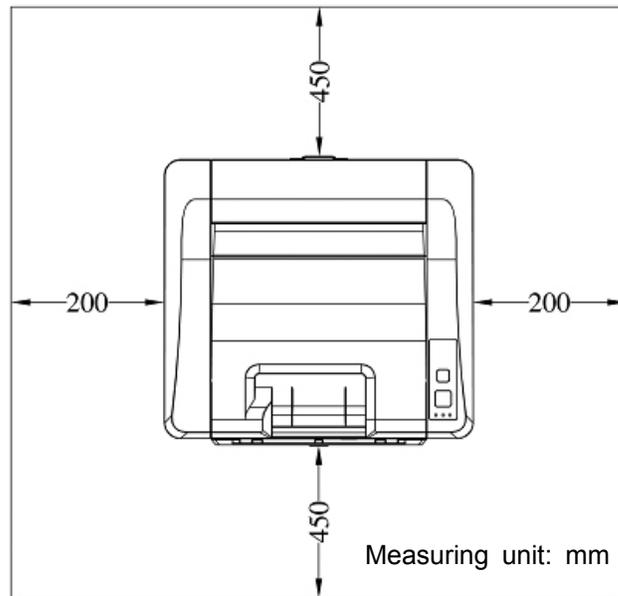
Note:

1. DHCP server: With DHCP (Dynamic Host Configuration Protocol), a host can automatically be given a unique IP address each time it connects to a network--making IP address management an easier task for network administrators. If the DHCP server is available from your network, you do not need to enter TCP/IP, subnet mask, gateway, and DNS information. Instead, this information will be automatically given for the product.
2. IP Address: An IP (Internet Protocol) address uniquely identifies a host connection to an IP network. System administrator or network designer assigns the IP address. The IP address consists of two parts, one identifying the network and the one identifying your node.
3. The IP address is usually written as four numbers separated by periods. Each number can be zero to 255. For example, 10.1.30.186 could be an IP address.

2. Installation

Operation Space

Please reserve the following operation space.



Machine dimension: 404 x 380 x 205 mm (WxDxH)

Removing the Packing Materials

Remove the packing materials, including plastic bags and tapes for product protection.

Removing the Tapes of the Toner Cartridge



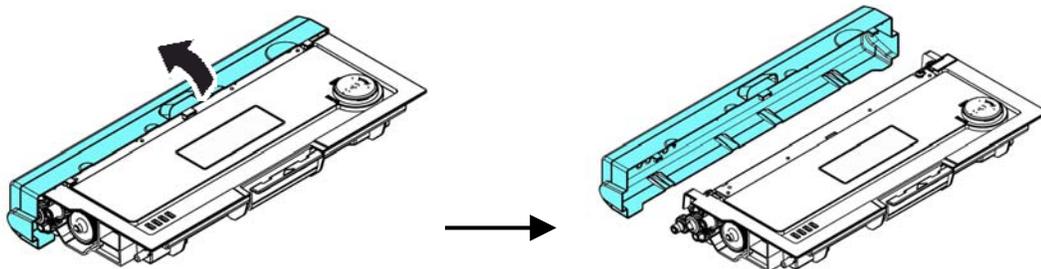
Important!

When you unpack the machine, a toner cartridge has been packed separately besides the machine. Please remove the package cushion and tapes on the toner cartridge before using it.

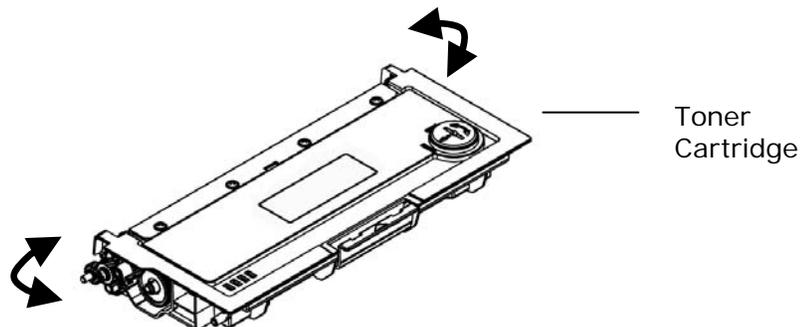
Installing the Toner Cartridge

Please follow these steps to install the toner cartridge:

1. Unpack the new toner cartridge.
2. Remove the protective cover.



3. Tilt the toner cartridge up and down and then right and left 10 times to distribute the toner evenly inside the toner cartridge.

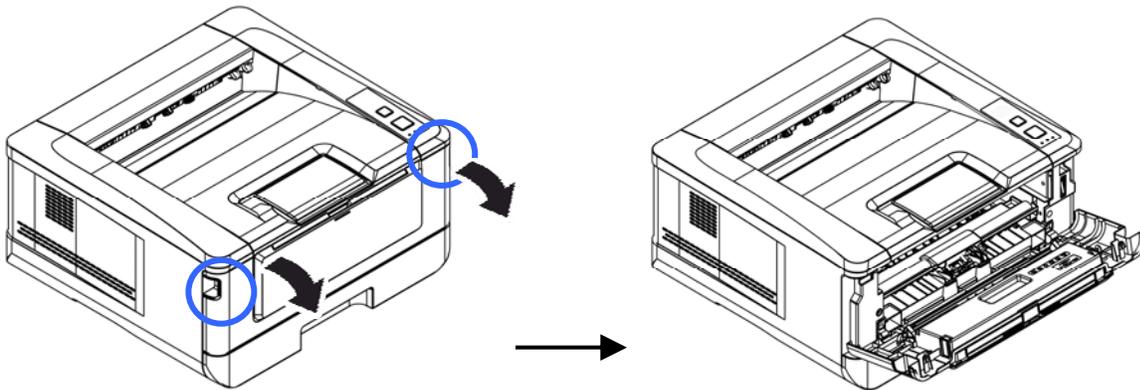




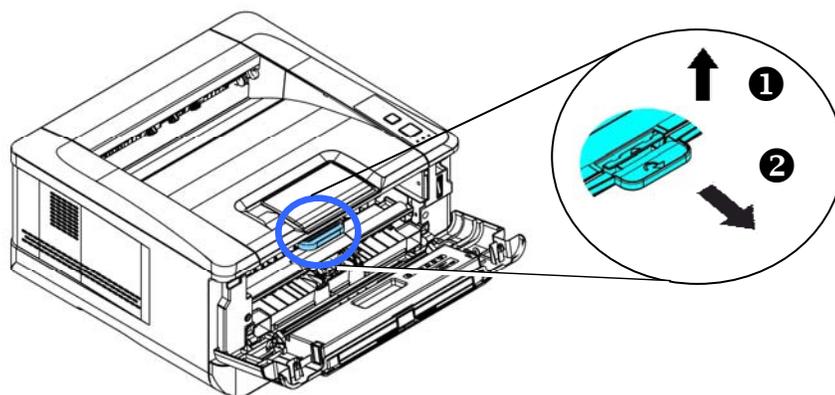
WARNING!

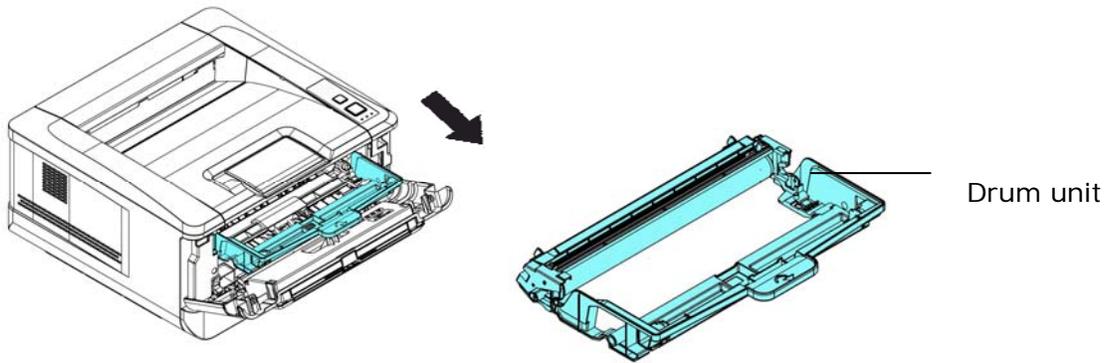
- Be careful not to inhale toner.
- To avoid print quality problems, DO NOT touch the toner rollers.
- If toner gets on your clothing or other fabric, wipe off the toner with a dry cloth. Wash the items in cold water and dry them in the shade.
- To prevent the toner cartridge from damage, do not expose it more than several minutes.

4. Open the front door by pulling the handles on both sides as shown.

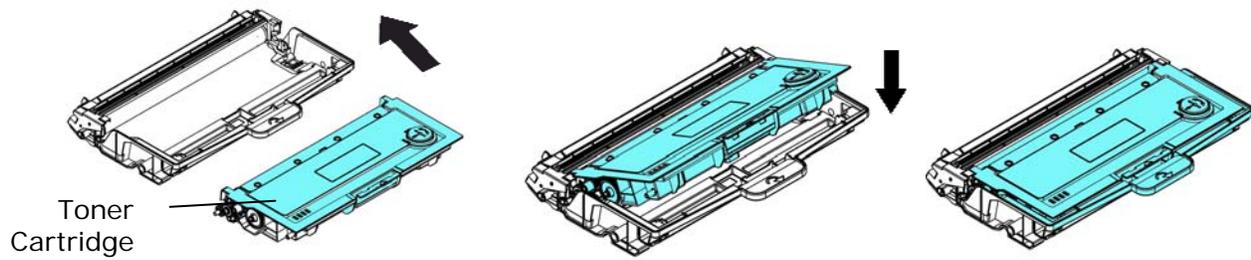


5. Lift the handle of the drum unit up and then pull it out as shown.

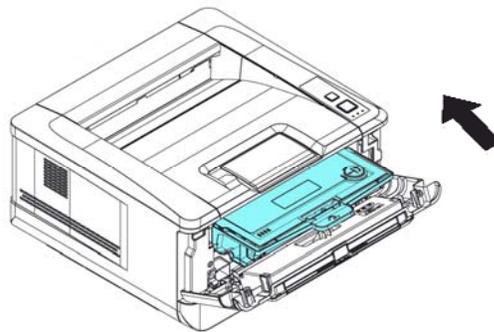




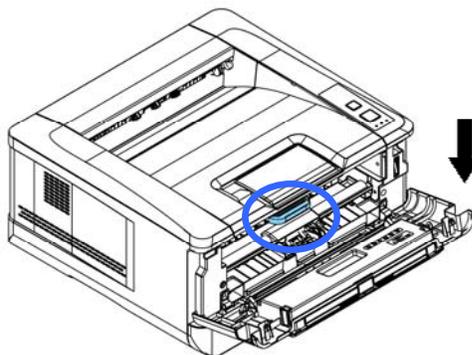
4. Install the toner cartridge to the drum unit until you hear it lock into place.



5. Hold the handle of the drum and toner cartridge assembly and insert the assembly to its original place.



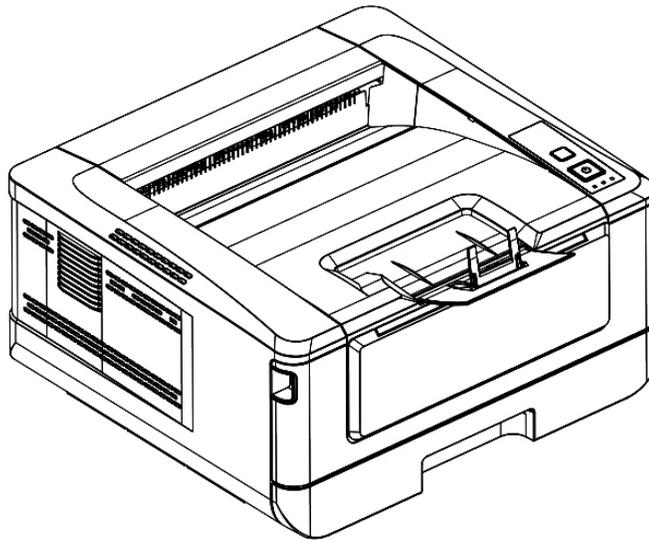
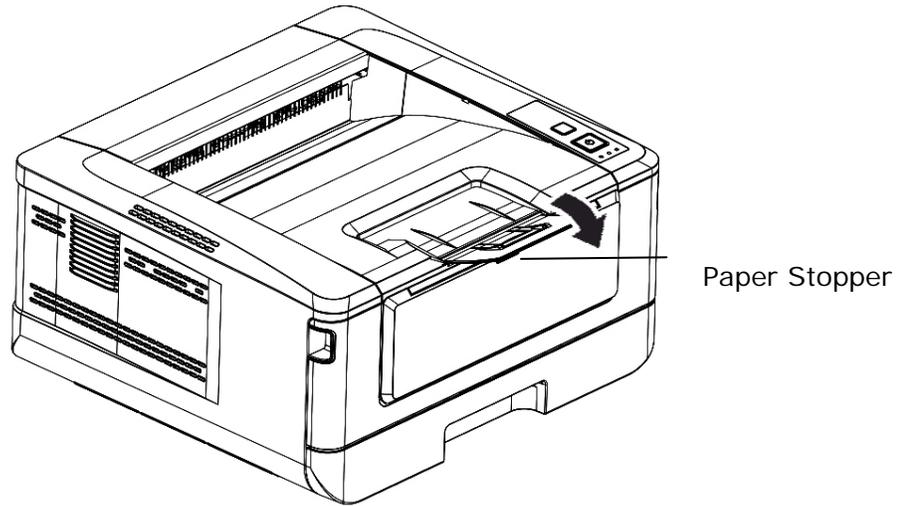
6. Press down the handle of the toner cartridge to fix the toner cartridge.



6. Close the rear cover ◦

Installing the Paper Stopper

Gently lift the paper stopper and its extension to collect the paper.



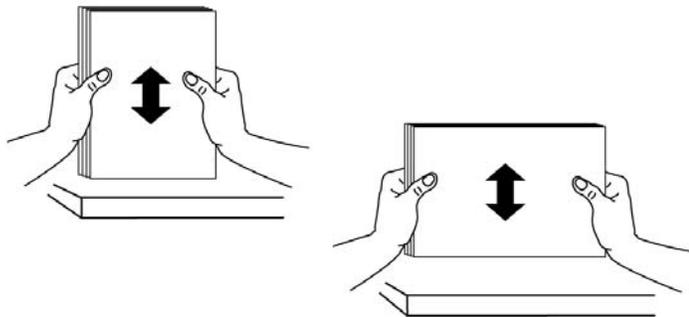
Loading The Main paper tray

To insert paper to the main paper tray,

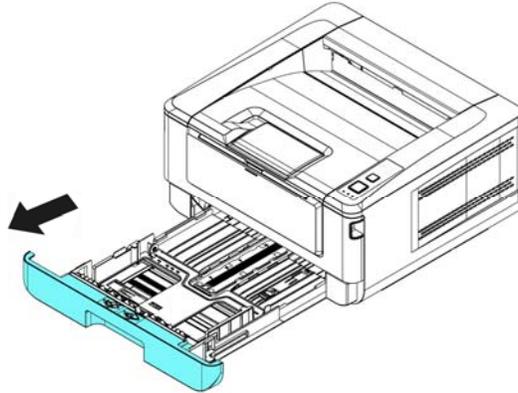
1. Fan your paper first to ensure that the pages do not stick together.



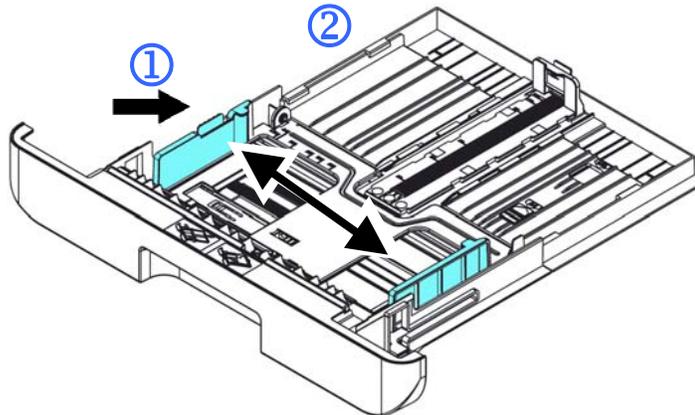
2. Align the edges of the documents by tapping the bottom of the stack against the table top. Rotate the stack 90 degrees and repeat.



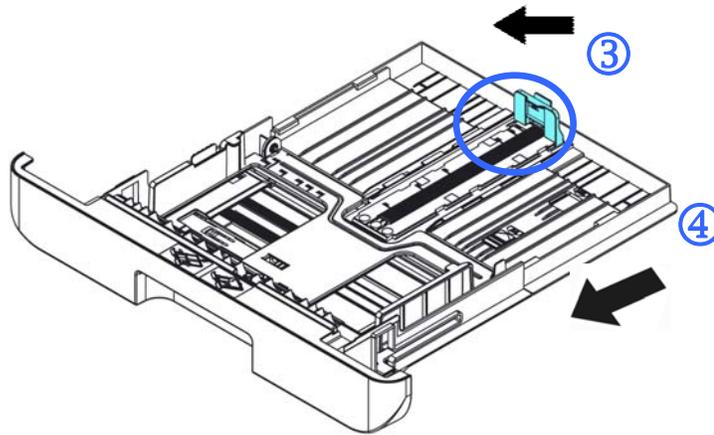
3. Lift the handle of the main paper tray and then pull out the main tray.



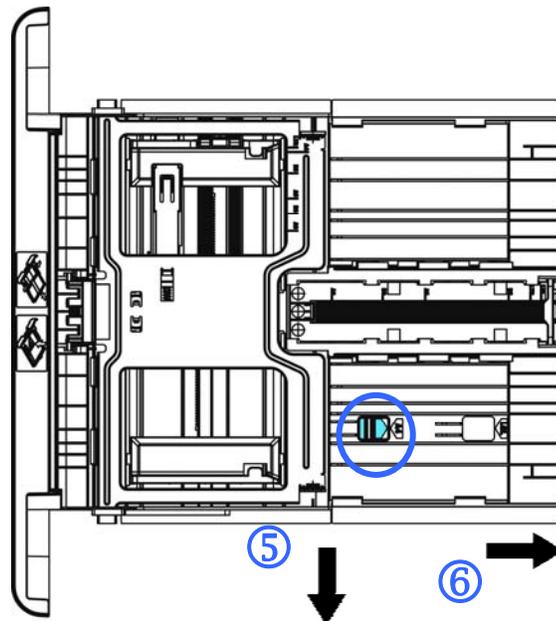
4. Push the width guide tab (①), and move the width guide (②) to the correct position for the paper size being loaded.



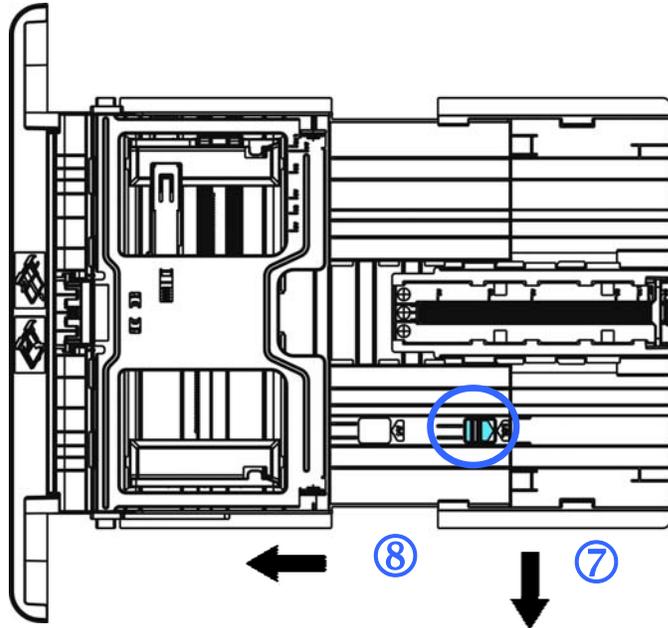
5. Push the length guide (3), and slide the guide (4) to the correct position for the paper size being loaded.



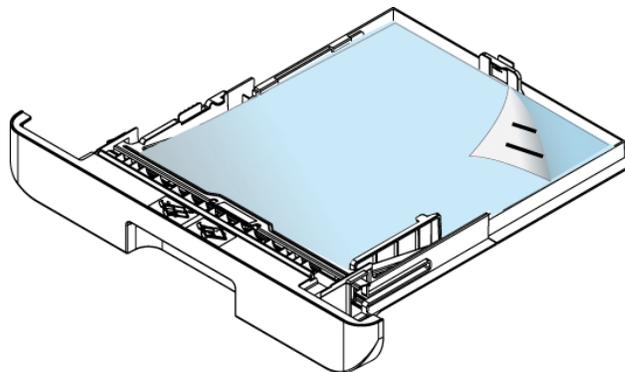
6. If you want to load a sheet of paper larger than the length of A4, press down the first length adjustment latch (5), and at the same time slide the manual tray to the right (6) until it reaches the paper size you want.



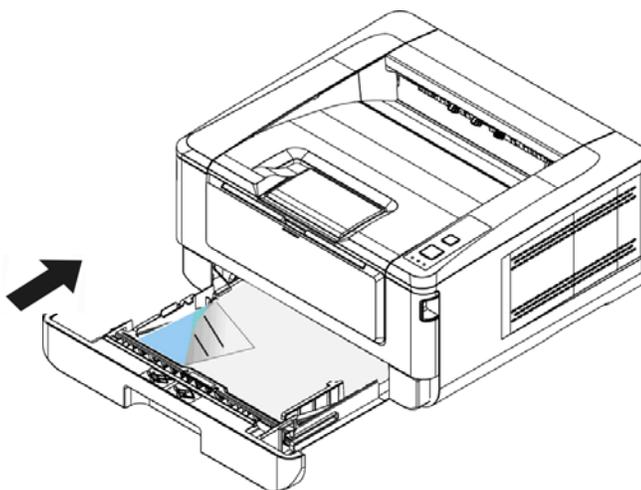
To move the tray back to the original A4 length, press down the second length adjustment latch (7), and at the same time slide the manual tray to the left (8).



7. Load the paper stack with the **Printing Side Facing Down** as illustrated.



8. Insert the tray to the printer.



Paper sizes and weights used for Main paper tray

Paper capacity	250 pages (70 g/m ² plain paper)
Paper size	A4 (210 x 297 mm) A6 (105 x 148 mm) A5 (148 x 210 mm) B6 (125 x 176 mm) B5 (176 x 250 mm) Letter (216 x 279 mm) Legal (216 x 356 mm) Custom Size: 76.2 x 127 mm ~ 216 x 356 mm (3 x 5 in. ~ 8.5 x 14 in.)
Paper weight	16 ~ 28 lbs (60 ~ 105 g/m ²)

* Duplex printing is available only for paper in A4, B5 or Letter size.



Note:

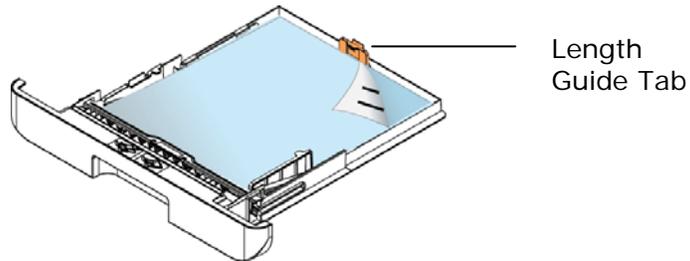
- To ensure the best quality printing and copying, please use the paper or media which we have recommended.
- Make sure to fan your paper before loading it to the paper tray.
- If there are instructions about the printing side on the package of your paper, please follow the instructions to load your paper properly with the correct printing side to the paper tray.
- If the printing quality is not satisfactory or paper jams are easily to occur, turn over the paper stack so that the top page is now on bottom and then reload it to the paper tray.
- Pack and seal the remaining paper with the original packaging and store the paper in a dark and dry location away from the sunshine. Paper which collects much moisture is easy to cause jam during printing.

Important:

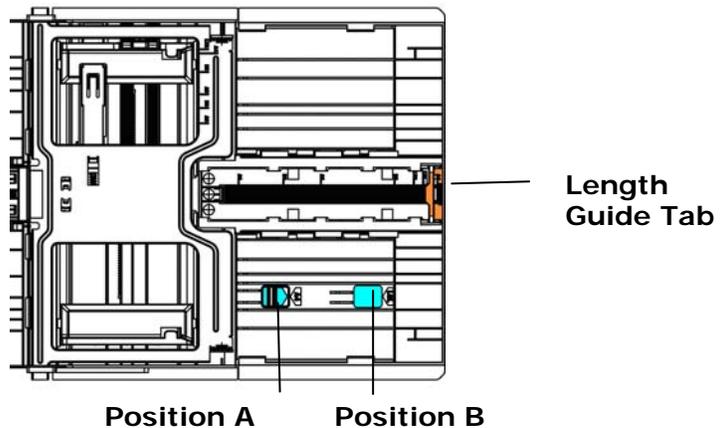


To avoid the chance of miss-fed, make sure the length guide tab and length slider are installed in their proper positions.

- Make sure the end of your paper slightly touch the length guide as indicated in below.



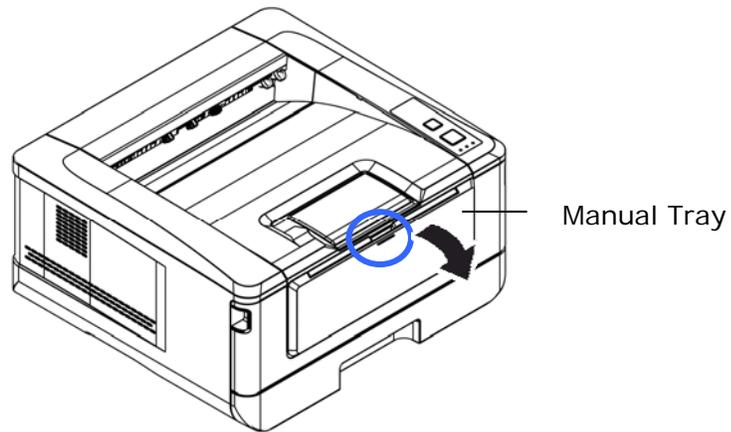
- Make sure the length slider is installed in the specified location in either position A or B as shown in below.



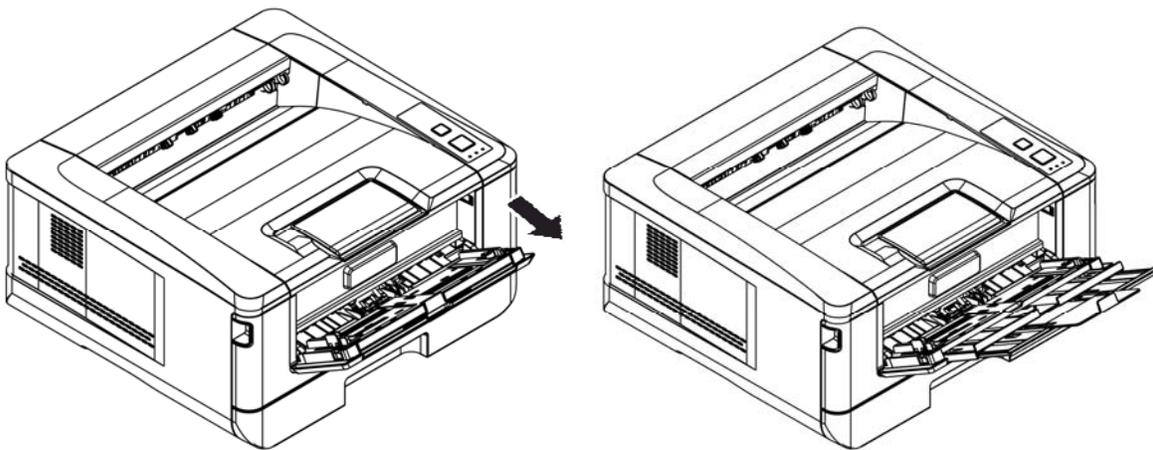
Loading the Manual Tray

To insert paper to the manual tray,

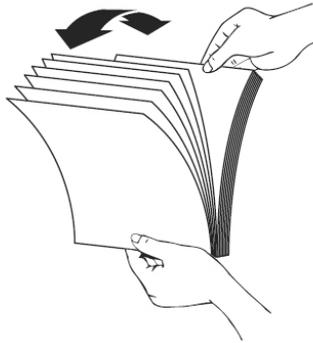
1. Hold the handle of the manual tray, and pull it down to open the manual tray.



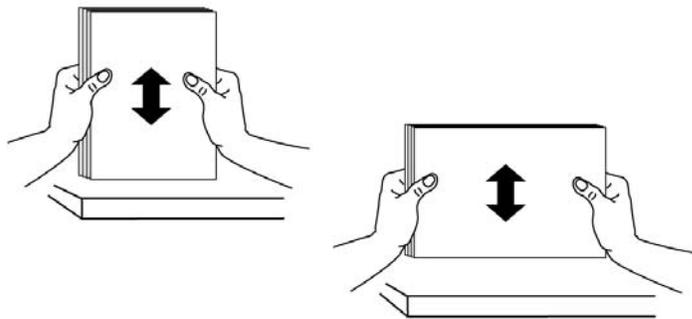
2. Pull out the tray extension to fit your desired paper length.



3. Fan your paper first to ensure that the pages do not stick together.

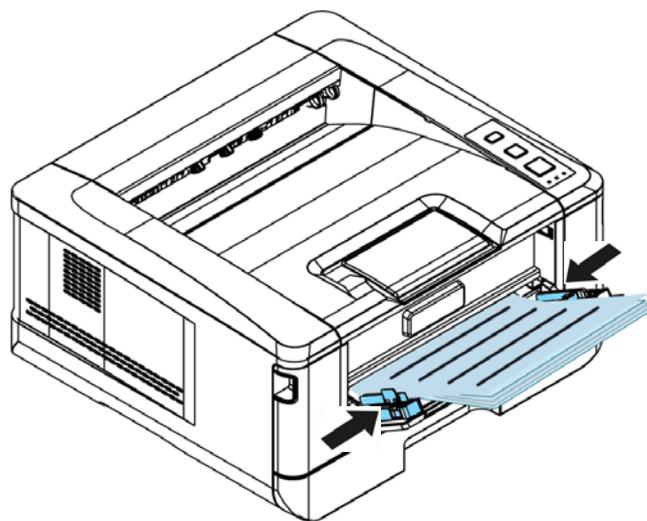


4. Align the edges of the documents by tapping the bottom of the stack against the table top. Rotate the stack 90 degrees and repeat.



5. Load the paper stack with the print side **Facing UP** as illustrated.

6. Slide the paper guides so that they lightly touch the paper stack.



Paper size and weights used for Manual Tray

Paper capacity	10 pages (70 g/m ² plain paper)
Paper size	A4 (210 x 297 mm) A6 (105 x 148 mm) A5 (148 x 210 mm) B6 (125 x 176 mm) B5 (176 x 250 mm) Letter (216 x 279 mm) Legal (216 x 356 mm) Custom Size: 76.2 x 127 mm ~ 216 x 356 mm (3 x 5 in. ~ 8.5 x 14 in.)
Paper weight	16 ~ 43 lbs (60 ~ 163 g/m ²)

* Duplex printing is available only for paper in A4, B5, or Letter size.

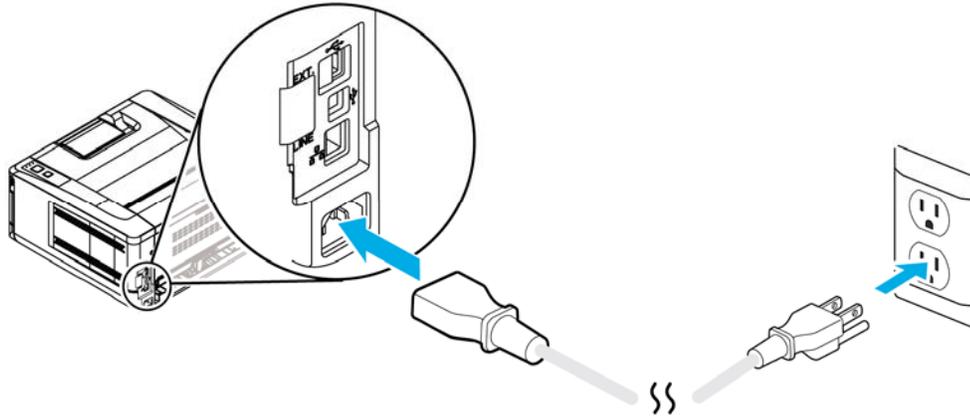


Note:

- To ensure the best quality printing and copying, please use the paper or media which we have recommended.
- Make sure to fan your paper before loading it to the paper tray.
- If there are instructions about the printing side on the package of your paper, please follow the instructions to load your paper properly with the correct printing side to the paper tray.
- If the printing quality is not satisfactory or paper jams are easily to occur, turn over the paper stack so that the top page is now on bottom and then reload it to the paper tray.
- Pack and seal the remaining paper with the original packaging and store the paper in a dark and dry location away from the sunshine. Paper which collects much moisture is easy to cause jam during printing.

Connecting to Power

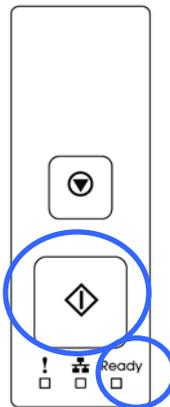
1. Connect the other end of the power cable to the power jack of your product.



2. Connect the other end to an appropriate power outlet.

Turning On The Printer

To turn on the printer, press the power button located on the control panel. Ready LED will be lit.



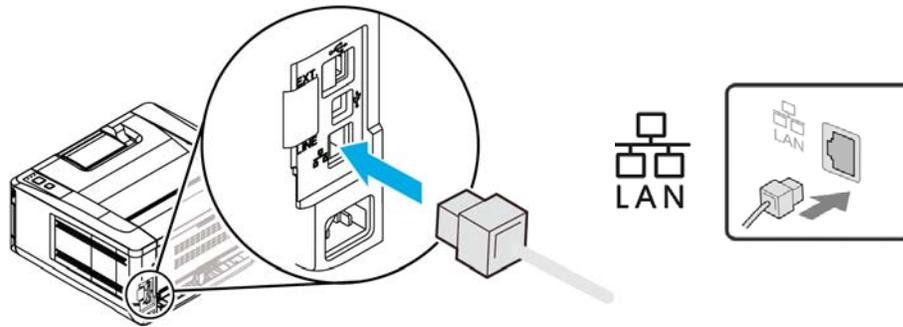
Note:

When the product is not in use, please long press the power button until the Ready LED is turned off to get a zero power consumption state.

Connecting to the Network

Connect the printer to the network to use the network printing function.

1. Connect one end of your network cable to an available port of your Ethernet Hub.
2. Connect the other end to the LAN port at the back of the product as shown.

**Note:**

To obtain the IP address, press and hold the Cancel button for 3 seconds. A usage report containing the IP information will be printing.

Installing the Printer Driver (Windows)

System Requirement

Windows XP, Windows Server 2003, Windows Vista, Windows 7 ~ 10

For USB Interface Users

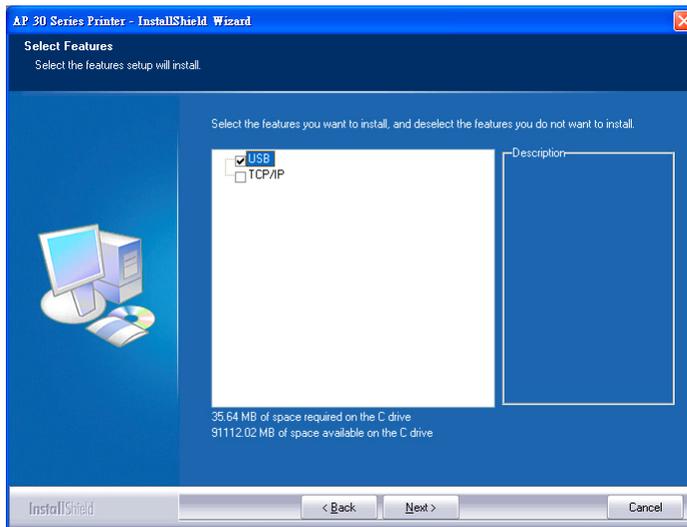
Please follow these steps to install the printer driver if this machine is connected to your computer via a USB cable.



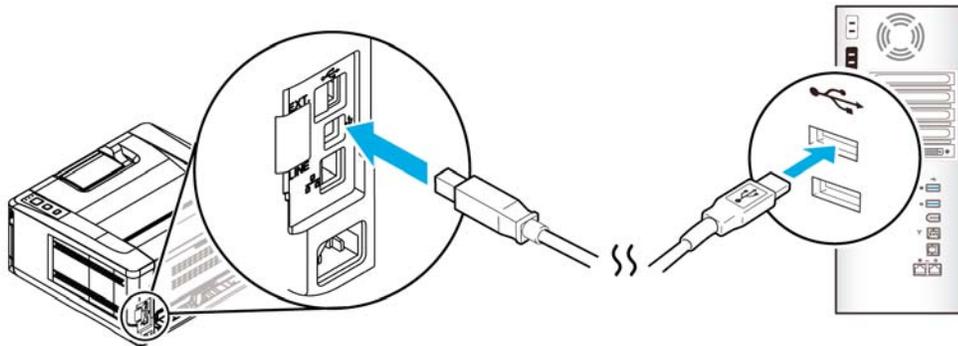
Important!

DO NOT connect the USB cable before installing the printer's driver.

1. Insert the supplied CD into your CD-ROM drive. The installation menu appears, as shown below.
2. Click **"Install Printer Driver"** and follow the on-screen instructions to install the program.
3. When the Setup Type dialog box appears, select USB.



4. During installation, the USB Connection dialog box will be prompted to instruct you to connect the machine to your computer with a USB cable.
 - a. Connect one end of the USB cable to your computer.
 - b. Connect the other end to the USB port of your product.



5. When the “Found New Hardware” screen appears, click **Next** and follow the on-screen instruction to complete the installation.

6. When the **Finish** dialog box appears, click **Finish** to complete.

If you have successfully installed the printer’s driver, you will find a printer “AP30XX” has been added in the “Printers and Faxes” option from the Control Panel.

Uninstalling the Printer Driver

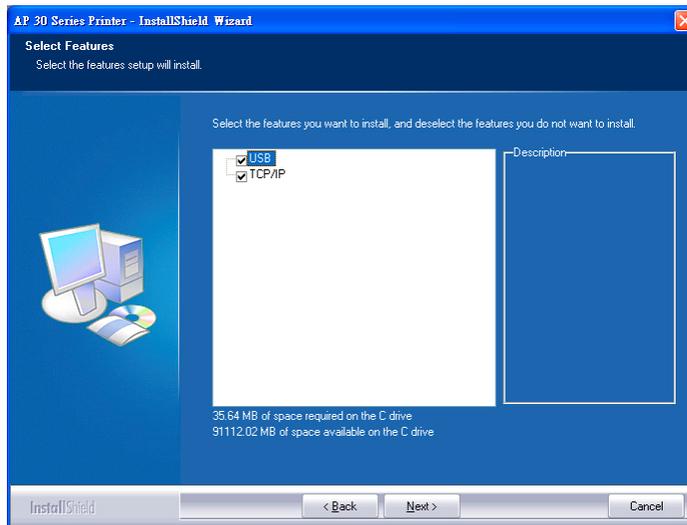
1. Make sure your USB cable is connected to your product.
2. From the "Start" menu, select "All Programs", the product model, and then "uninstall Driver".

For Network Interface Users

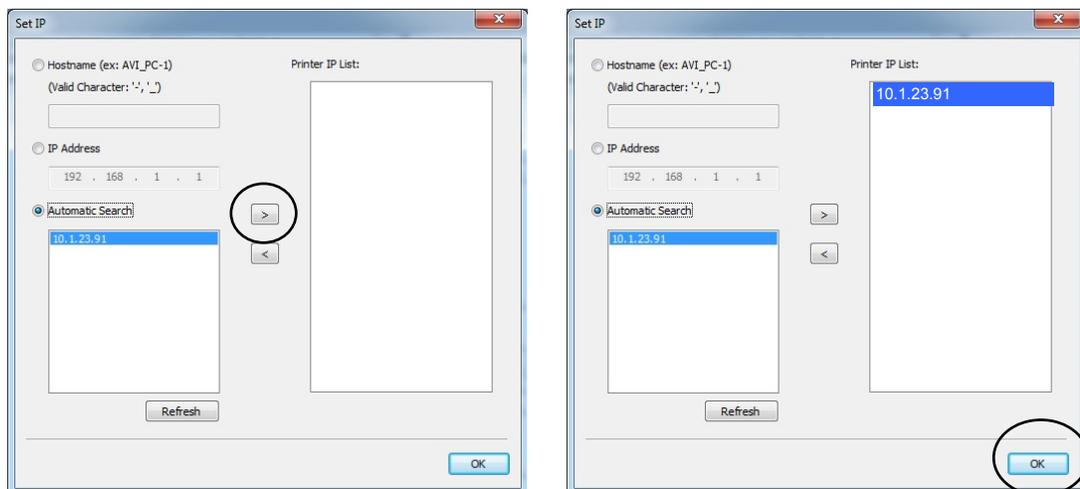
Please follow these steps to install the scanner, printer, and fax drivers if this machine is connected to your computer via a network.

1. Insert the supplied CD into your CD-ROM drive. The installation menu will be displayed.
2. To install the scanner driver and printer driver:

Click 「**Install Scanner Driver and Printer Driver**」 and follow the on-screen instructions to complete the installation of the program.
3. When the **Setup Type** dialog box appears, check [**TCP/IP**] and click [**Next**] to continue. If you need to connect the product to a wireless network, check [**USB**] since the Network Setup Tool is included in the USB driver and only available when the product is connecting to your computer through the USB cable.



4. When the following **Set IP** dialog box appears, choose one of the following options and click [**>**] to add to the printer list. When the desired option setting is completed, click [**OK**]. (Follow the preceding section – Checking the Product's Default IP Address to obtain the product's default IP address.



<p>Host Name</p>	<p>Enter the product's host name to be connected in the blank box of the Host Name option. To add more host names if more than one AP30 Series are connected in the network, click 「More」 next to the Host Name box.</p>
<p>IP Address</p>	<p>Enter the product's IP address to be connected in the blank box of the IP Address option.</p>
<p>Automatic Search</p>	<p>Searches the product's printers automatically, and all the product's host names found in the network will be displayed in the box of the Automatic Search. Use your mouse to choose your desired host name to be connected.</p>

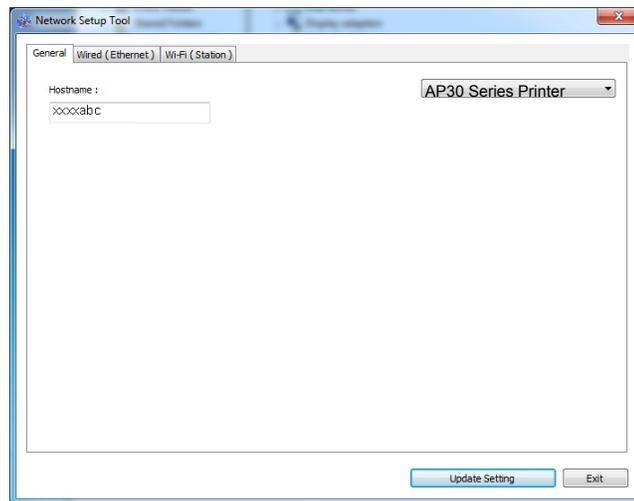
5. During installation, the [USB Connection] dialog box will be prompted to instruct you to turn on the PRINTER and then connect the PRINTER to your computer with a USB cable.
6. When the Finish dialog box appears, choose 「**Finish**」 to complete.
If you have successfully installed the printer's driver, you will find a printer, 「AP30 Series NetWork」, has been added in the 「Printers and Faxes」 option from the Control Panel.

Changing the Product 's IP Address in a Wired Network

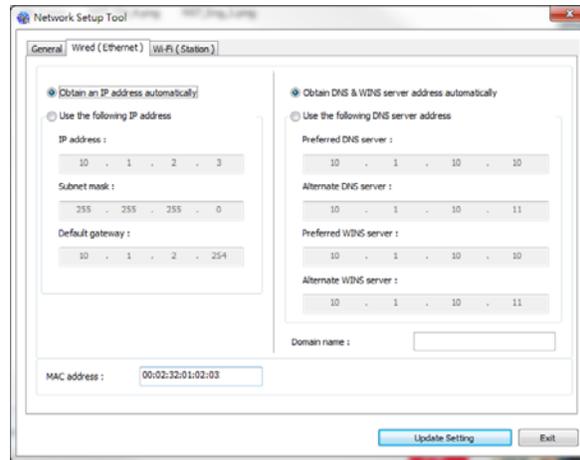
To change the product's IP address, you need to install the **Network Setup Tool**. The **Network Setup Tool** is included in the USB printer driver. After the installation of the USB printer driver is completed, the **Network Setup Tool** is automatically installed onto your computer. Follow these steps to update the IP address to the product in a wired network.

You may also define your network connection via the web page. (See more details in the subsequent section Customize System's Settings via the Embedded Web Page in Chapter 5.

1. Make sure the product is connected to your computer via a USB cable.
2. Start **Network Setup Tool** by choosing the **Start** button and then select **All Programs>AP30XX PRINTER>Network Setup Tool** in succession. The following Network Setup Tool screen will be prompted.



3. On the [**General**] page, check [**Wired (Ethernet)**] Network.
4. Click the [**Wired (Ethernet)**] tab to prompt the Wired (Ethernet) page.



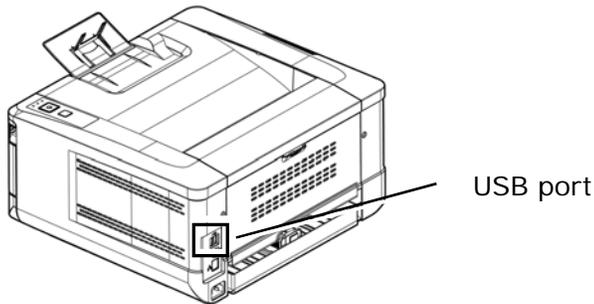
5. Check [**Obtain an IP address automatically**] to obtain the IP address directly from the DHCP server or you may enter your static IP on the [**IP Address**], [**Subnet Mask**], and [**Gateway**] field respectively.
6. If you have assigned a specific IP, enter your domain name server and WINS server as well and then click [**Update Setting**] to update the IP information to the product.
7. If update is successfully, an [**Update Device Successfully**] message will be displayed and the Network Setup Tool will be automatically closed.

Setting the Product's IP Address in a Wireless Network

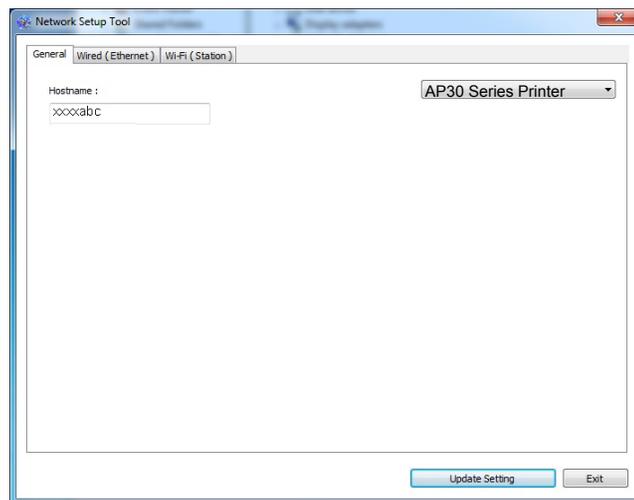
To set an IP address to the product, you need to install the **Network Setup Tool**. The **Network Setup Tool** is included in the USB printer driver. After the installation of the USB printer driver is completed, the **Network Setup Tool** is automatically installed onto your computer. Follow these steps to set and update the IP address to the product in a wireless network:

You may also define your network connection via the web page. (See more details in the subsequent section Customize System's Settings via the Embedded Web Page in Chapter 5.

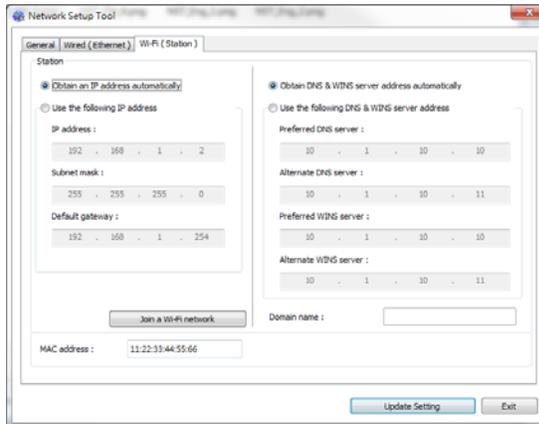
To wirelessly connect the product to a network, you need to install a Wi-Fi dongle to the product at the back of the USB port.



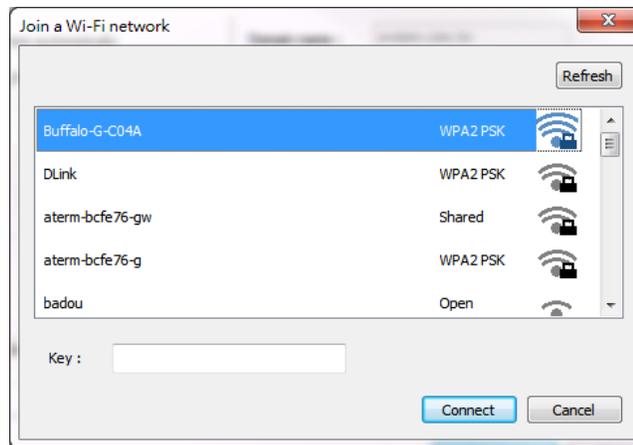
1. Make sure the product is connected to your computer via a USB cable.
2. Start the **Network Setup Tool** by choosing the **Start** button and then select **All Programs>AP30XX Printer>Network Setup Tool** in succession. The following Network Setup Tool screen will be prompted.



3. On the [**General**] page, check [**Wi-Fi (Station)**].
4. Click the [**Wi-Fi (Station)**] tab to prompt the [**Wi-Fi (Station)**] page.



5. Check [**Obtain an IP address automatically**] to obtain the IP address directly from the DHCP server or you may enter your static IP on the [**IP Address**], [**Subnet Mask**], and [**Gateway**] field respectively.
6. Click [**Join a Wi-Fi network**] and the currently connected wireless networks will be displayed. Select the wireless network you want to connect and then enter the security key if required.



7. Click [**Connect**] to start connecting the SSID (wireless network name) and then update the IP information to the product.
8. If update is successfully, an [**Update Device Successfully**] message will be displayed and the Network Setup Tool will be automatically closed.

Uninstalling the Scanner Driver and Printer Driver

1. From the 「**Start**」 menu, select 「**All Programs**」, 「**the AP30 Series Printer**」, and then 「**Uninstall Driver**」.

Or from the 「**Start**」 menu, select 「**Control Panel**」, 「**Add or Remove Programs**」, 「**the AP30 Series Printer**」, and then 「**Remove**」.

2. Follow the instructions on the screen to complete removing the scanner driver and the printer driver.

Installing the Printer Driver (Mac OS)

System Requirement

Operating System:

- Mac OS X 10.11 or later

Computer:

- Recommended: Intel® Core™ Duo Processor 2.4 GHz or higher
- Minimum: Intel® Core™ Duo Processor 1.83 GHz
PowerPC G5 1.6 GHz

Memory:

- Recommended: 1 GB or more
- Minimum: 512 MB

Turning on the Printer

Press the **Power** button on the front panel, the Power LED will flash. When it is finished and ready to scan, the LED indicator will stop flashing and become steadily on. To turn off the scanner, press the **Power** button for about 3 seconds, the Power LED will be off.

Installing the Printer Driver

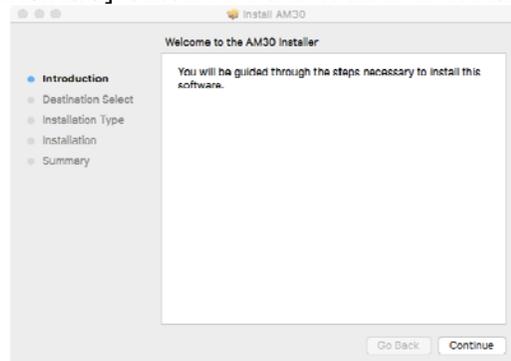
NOTE: The screens in this section are basically from Mac OS 10.11. The screens on your Macintosh will vary depending on your operating system.

Follow the procedure to install Avision's AP30 Series printer driver for Macintosh computer from the CD-ROM supplied with the printer.

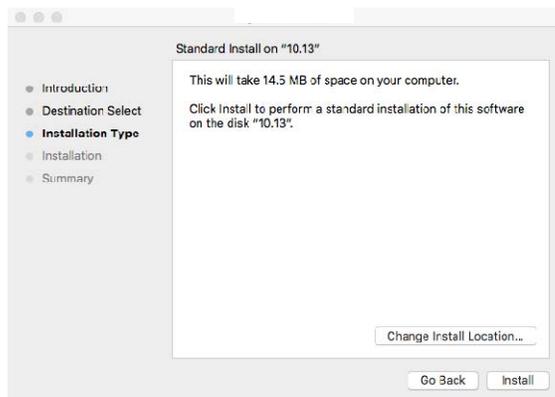
1. Turn your computer on, and log in with an account that has admin rights.
2. Insert the Software CD-ROM into the CD-ROM drive. The printer program - Avision AP30...pkg will be displayed.



3. Double-click the [**Avision AP30...**] icon.
4. Click the [**Continue**] button on the Welcome window.



5. If you wish to change the default installation disk, click [**Change Install Location...**] or click the [**Install**] button to continue installing the program.

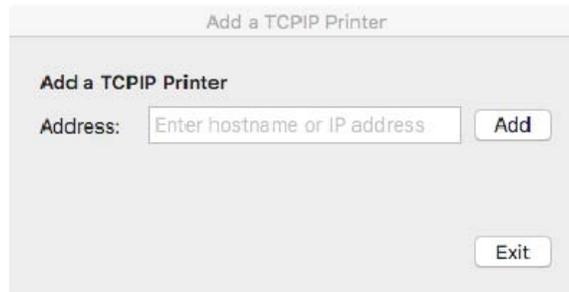


6. Log in with a password that has admin rights and click the [**Install Software**] button.

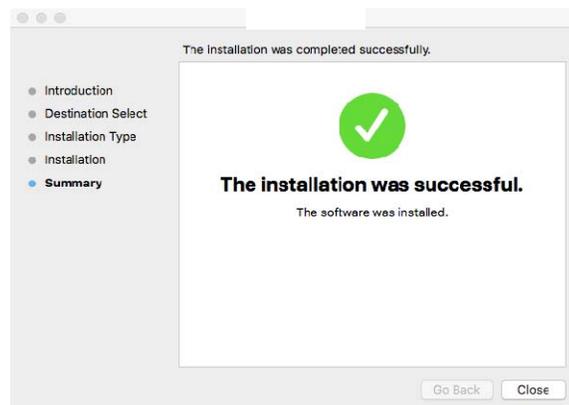


7. The computer begins installing the software.

- When the following screen is prompted, enter the IP address of the printer and click **[Add]**. **If you wish to connect the printer to your computer with a USB cable, skip the IP address and click **[Exit]** to continue.*



- When **[Add Printer AP30_Net Successful]** message is displayed, click **[Exit]** to continue. (If wish to add more AP30 printer, enter the IP address again and then click **[Add]** to continue.)
- When the **[The installation was successful]** screen appears, click the **[Close]** button to close the installation.



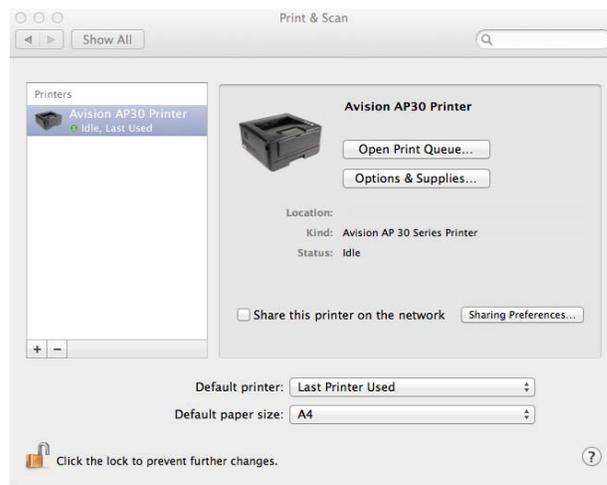
- Remove the Setup CD-ROM from the CD-ROM drive. **If you wish to connect the printer to your computer with a USB cable, connect the printer with the USB cable now. If you already did, unplug and replug the USB connector again.*
- Select the  Apple icon in the top-left corner, then click **[System Preferences]** and then **[Print & Scan]**.



Or click **[System Preferences]** icon on your dock, and then **[Print & Scan]**.



13. You can find an AP30 printer has been added in your printer list.



Adding a new Printer

To add a new printer, follow these steps:

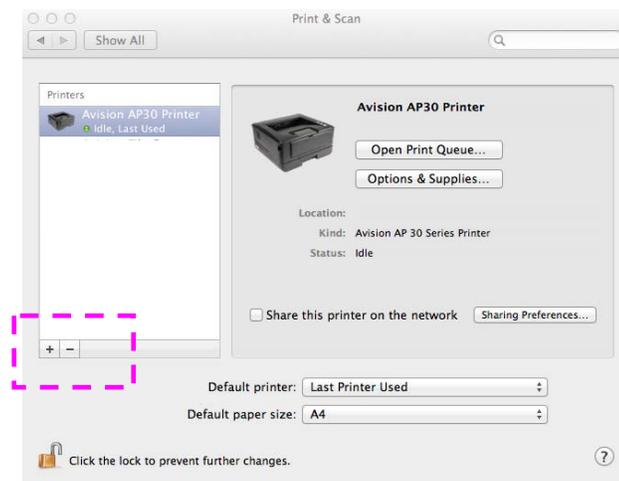
1. Select the  Apple icon in the top-left corner, then click **[System Preferences]** and then **[Print & Scan]**.



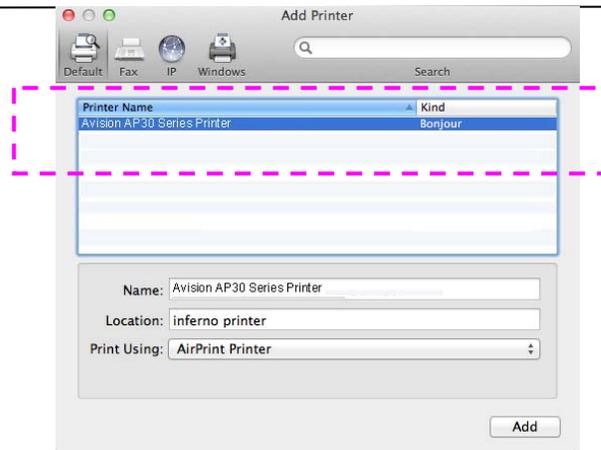
Or click **[System Preferences]** icon on your dock, and then **[Print & Scan]**.



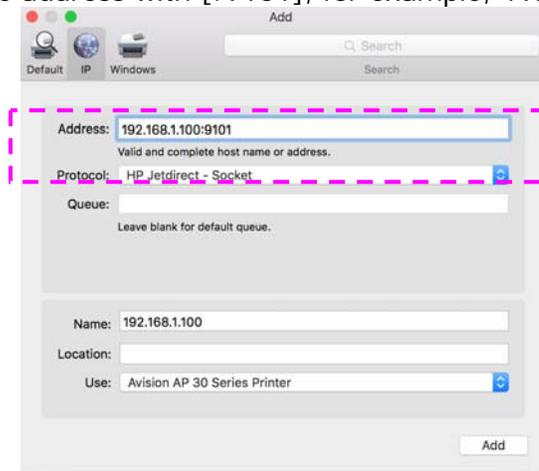
2. Click  and then **[Add Other Printer or Scanner]** to add the printer.



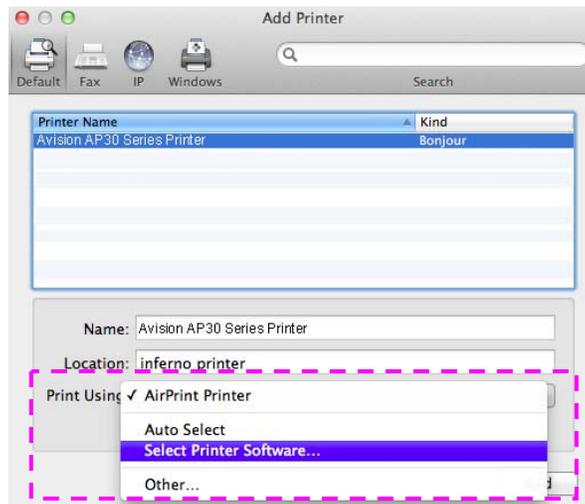
3. A dialog appears listing printers on your local network. It may take a minute or two for your printer to appear. Select your printer when it appears in the list.



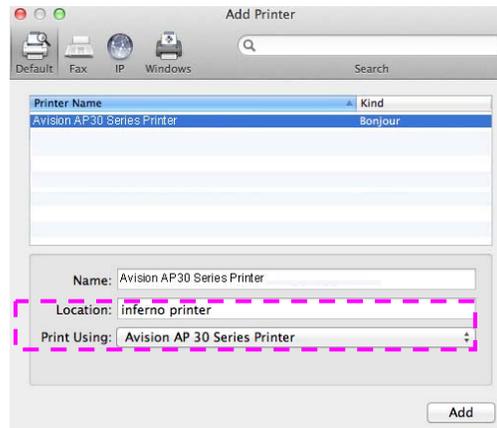
If your printer still doesn't appear in the list, try adding the printer by its IP address. While entering the IP address by clicking the IP icon, be sure to include the address with [:9101], for example, 192.168.1.100:9101.



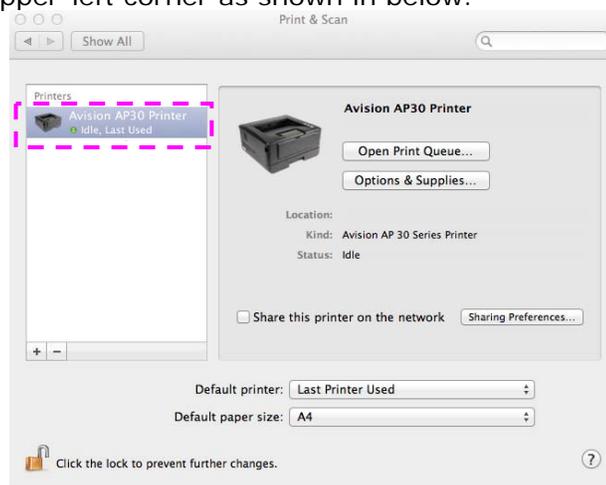
4. Locate the printer driver by clicking the arrow button of the [Print Using] option and then select [Select Printer Software].



5. A dialog appears listing current printer drivers installed on your computer. Select your printer and click **[OK]**. Your **[Print Using]** option will display the printer you have selected.



6. Click the **[Add]** button to add the printer. Now your printer will be in the list on the upper-left corner as shown in below.

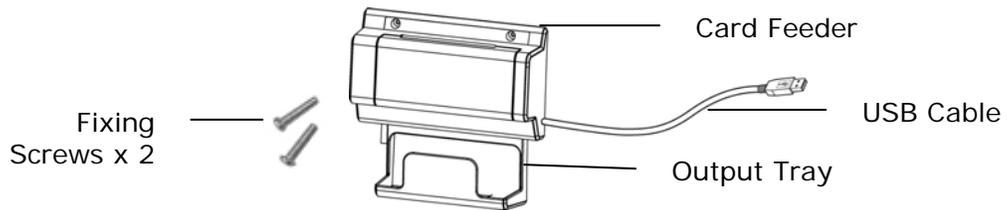


7. Close the **[Print & Scan]** window.

Using the Optional Scan Module (CSA6) for ID Cards

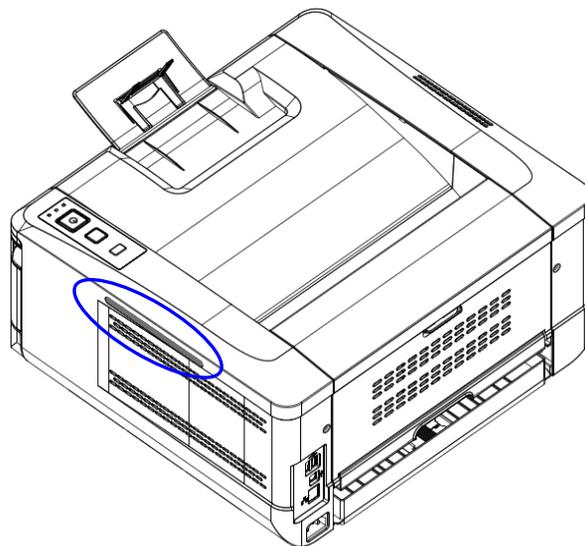
Simply loading your ID card to the scan module (CSA6), the copy can be started and in a second the front side and rear side of your ID card are printed in one side of a sheet.

Knowing the Scan Module:



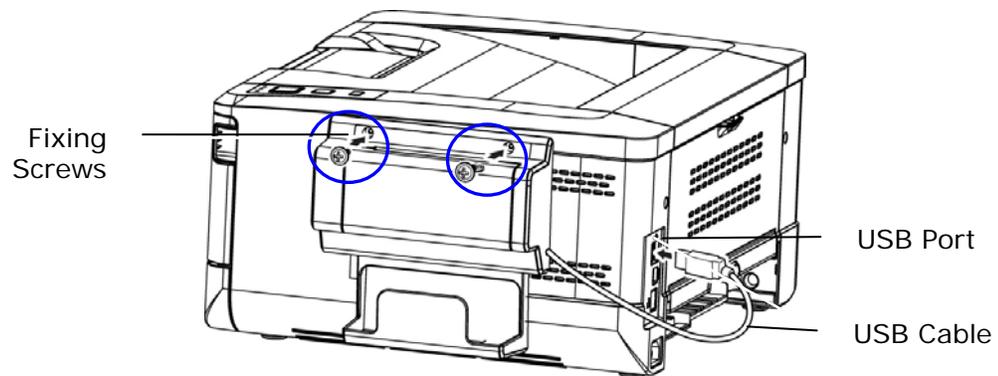
Removing the Mylar:

Locate the mylar for the reserved holes on side cover as shown and remove it with a box cutter.



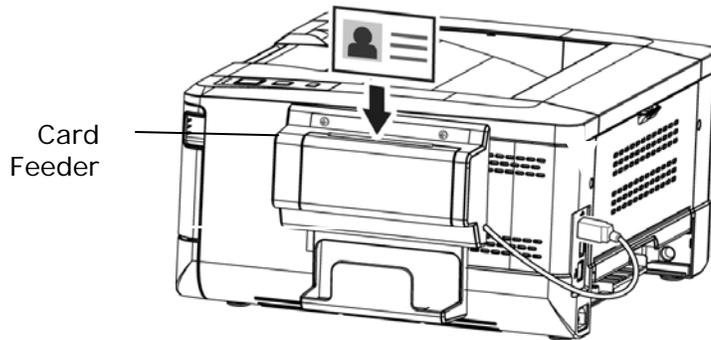
Installing the Scan Module:

1. Note two reserved holes on the side wall beneath the operational panel and fasten the scanning module with two fixing screws as shown.
2. Connect the USB cable to the USB port on rear side.

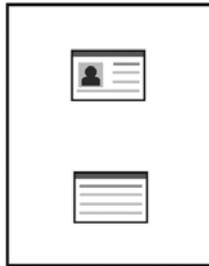


Making ID Card Copy:

1. Insert your card **FACE OUTWARD** to the card feeder and make sure the bottom of card feeding first as illustrated.



2. In a second, the front side and the rear side of your ID card will be copied in one side of a sheet.



Note:

- Only one card can be inserted at one time. The scan module does not allow to be fed more than one card at a time.
- To change the default settings of the optional scan module (CSA6) for ID card, please go to the product's embedded web page as described on page 36.

3. Customizing the Product's Settings

This chapter is specifically targeted to the persons who are responsible for the administration of the product. It is recommended that the administrator read this chapter before installing the machine.

The product's settings can be customized via the product's embedded web page. How to customize the product's settings via these two methods will be described in the following sections.



Note:

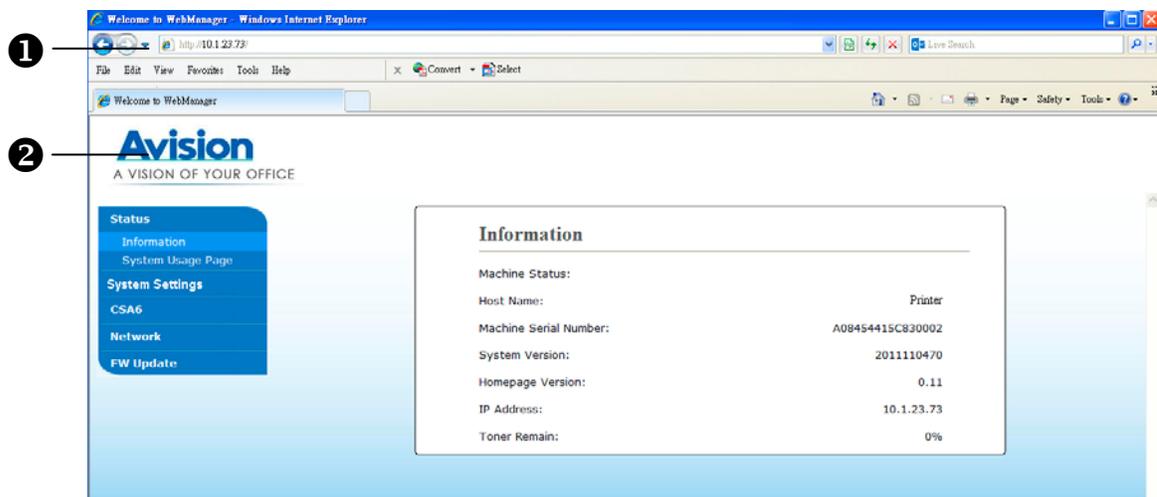
When installing the product for the first time, it is recommended that the Administrator retain the default system settings. The settings can be customized at a later date once you are familiar with the operation and functionality.

Customize System's Settings via the Embedded Web Page

Note: Any update of the web page requires administrator's login.

You may also define your Wi-Fi connection type via the web page.

1. Refer to the preceding section to setup the product's network settings.
2. Open your browser and type the product's IP address on the URL address **1**, for example, `http://10.1.23.73` and press Enter. In a second, the embedded web page will be displayed **2**.



3. Enter your desired setting on your selected items.

Setting Items to be Customized

Status

Displays the status and basic information of the product.

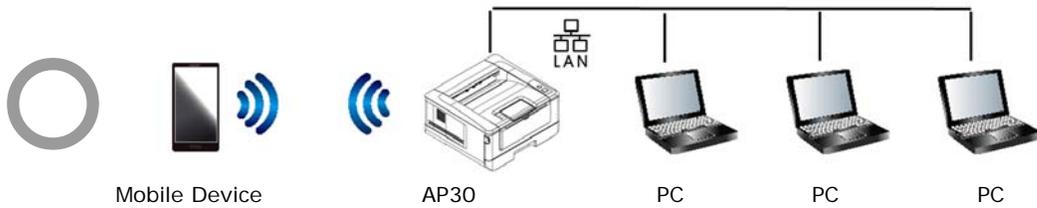
Item	Description
Information	Display the following basic information of the product.
Machine Status	Displays the machine status.
Host Name	Displays the host name.
Machine SN	Displays the machine's series number.
System Version	Displays the firmware version.
Homepage Version	Displays the version of the embedded web page.
IP Address	Displays the IP address.
Mac Address	Displays the Mac address.
Wi-Fi IP	Displays the Wi-Fi IP address.
Wi-Fi Mac	Displays the Wi-Fi Mac address.
Wi-Fi SSID	Displays the Wi-Fi SSID name.
Toner Remain	Displays the toner remain of the toner cartridge.
System Usage Page	Selects Download to download the system usage page to your computer to print the usage report.

System Settings

*Factory Default

Item	Description	Option
Language	The language displayed on the web page.	*English /繁體中文/简体中文 /Deutsch
Sleep Mode	Choose how long to enter the energy saving mode after your last action.	5Min/* 15Min/30Min/1Hr/2Hr/4Hr
Auto Off	Choose how long to shut down the product automatically after your last action.	*Off/5Min/15Min/30Min/1Hr/2Hr/4Hr
Paper Size Default	Specify the default paper size.	*A4/LTR/LGL

Network	Wi-Fi: Choose to turn on or off Wi-Fi connection. Choice: Wi-Fi/Wi-Fi WPS Button/Direct Link		Wi-Fi/ Wi-Fi WPS Mode /Direct Link
	On	Turn on Wi-Fi and enter Wi-Fi Station Mode. Please go to the product's web page to select a wireless network (SSID).	
	Direct Link	Turn on Wi-Fi and go to Wi-Fi AP (Access Point mode. The product is now a Wi-Fi AP itself.	
	Wi-Fi WPS Button: You may connect the device to a WPS compatible wireless access point by selecting [Wi-Fi WPS button]. To enable the WPS connection of your access point, please refer to the user's guide of your access point.		
	Network Filter: Specify if you wish to enable or disable the Network filter configuration. Once enabled, you can specify the filter mode to allow some IPs to access the device or deny some IPs from accessing the device via the product's embedded web page. Choice: Enable/*Disable		



Wi-Fi (AP mode) and LAN mode can be used at the same time



Wi-Fi (Station mode) and LAN mode can not be used at the same time

Wi-Fi Connection:

- **Wired LAN:** If the device is connected to a wired LAN via an ethernet cable, the Wi-Fi connection will automatically set to to AP mode. A wired LAN and a wireless network can be working at the same time.
- **Wireless Network:** If SSID has been connected successfully, the wired LAN will not be working. If the device fails to connect to a wireless network (SSID), the device will automatically enter Wi-Fi AP mode (the device itself is an AP).

Management		
Factory Def.	Reset all settings to factory default values.	
Reset Count	Choose to reset count for roller or pad after replacement. Click [immediate] to reset count.	Tray 1 pad/ Manual Tray Pad
V-Mag Adjustmnet	Choose to adjust the vertical magnification rate of the printer.	-0.4%/-0.2%/* 0%/+0.2%/ +0.4 %

Wi-Fi Connection:

- **Wired LAN:** If the device is connected to a wired LAN via an ethernet cable, the Wi-Fi connection will automatically set to to AP mode. A wired LAN and a wireless network can be working at the same time.
- **Wireless Network:** If SSID has been connected successfully, the wired LAN will not be working. If the device fails to connect to a wireless network (SSID), the device will automatically enter Wi-Fi AP mode (the device itself is an AP).

Password Settings		
New Password	Enter a password to enable modifying the web page. Password should be 8~32 characters or digits in length.	
Retype Password	Retype new password.	

CSA6

Displays the default settings for CSA6 (optional) while printing the ID card or name card.

Item	Description
Mode	Display the default mode. Choice: Up/Down, left/Right, Front/Rear
Density	Display the default density level. Default: 4 (range 1 ~ 7)
Position Adjustment Vertical Horizontal	Adjust the printing position for your ID card. Choice: Move Up, Move Down (range: 0~177) Choice: Move right, Move left (range: 0~107)

Network

Displays the network information of the product.

*Factory Default

Item	Description	Option
Host Name		
Host Name	Display the host name for the product.	
TCP/IP Settings		
Obtain an IP address automatically	*Off/On	
IP Address: Set up an IP address.	Input the IP address of the product.	
Subnet Mask	Input the subnet mask number.	
Gateway	Input the gateway for your IP.	
Auto-Obtain WINS/DNS	*Off/On	
Preferred DNS Server	Sets up the preferred DNS server address for the product.	
Alternate DNS Server	Sets up the alternate DNS server address for the product.	
Preferred WINS Server	Sets up the preferred WINS server address for the product.	
Alternate WINS Server	Sets up the alternate WINS server address for the product.	
Domain Name	Sets up a domain name for the product.	
Wi-Fi Settings		
Search AP	Click [Search AP] and the currently connected wireless networks will be displayed. Select the wireless network you want to connect and then enter the security key if required.	
IP Settings	Obtain the IP address directly from the DHCP server or you may enter your static IP on the [IP Address], [Subnet Mask], and [Gateway] field respectively.	

Network Security Setup

Displays the network information of the product.

*Factory Default

Item	Description	Option
Host Name		
Host Name	Display the host name for the product.	
Ethernet Settings		
Obtain an IP address automatically		*Off/On
IP Address: Set up an IP address.	Input the IP address of the product.	
Subnet Mask	Input the subnet mask number.	
Gateway	Input the gateway for your IP.	
Auto-Obtain WINS/DNS		*Off/On
Preferred DNS Server	Sets up the preferred DNS server address for the product.	
Alternate DNS Server	Sets up the alternate DNS server address for the product.	
Preferred WINS Server	Sets up the preferred WINS server address for the product.	
Alternate WINS Server	Sets up the alternate WINS server address for the product.	
Domain Name	Sets up a domain name for the product.	
Network Security Settings		
Security Configuration Filter	Specify if you wish to enable or disable the filter configuration.	*Disable/Enable
Filter Mode	Specify your filter mode to allow some IPs to access the device or deny some IPs from accessing the device.	Allow/Deny
IP Address Filter Configuration	<p>IP Address Filter Configuration- Four types of Start IP and End IP can be specified.</p> <p>Mac Address Filter Configuration- Up to 10 Mac address can be specified.</p>	IP Address Filter Configuration/ Mac Address Filter Configuration

A+ Manager Settings	
A+ Manager Settings	Enter the IP address of a specified server to send the system log file to for quick troubleshooting.



Note:

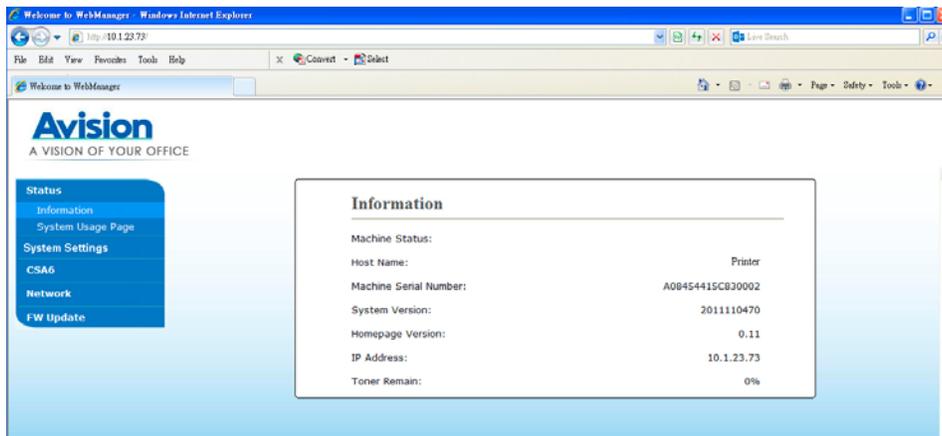
1. DHCP server: With DHCP (Dynamic Host Configuration Protocol), a host can automatically be given a unique IP address each time it connects to a network--making IP address management an easier task for network administrators. If the DHCP server is available from your network, you do not need to enter TCP/IP, subnet mask, gateway, and DNS information. Instead, this information will be automatically given for the product.
2. IP Address: An IP (Internet Protocol) address uniquely identifies a host connection to an IP network. System administrator or network designer assigns the IP address. The IP address consists of two parts, one identifying the network and the one identifying your node.

Updating The Product's Firmware

Before updating the product's firmware, you need to first download the latest firmware from our web site at www.avision.com onto your computer.

To update the product's firmware, follow these steps:

1. Refer to the preceding section, **Knowing the Product's Default IP Address**, to get the product's IP address from the DHCP server.
2. Open your browser.
3. Type the product's IP address on the URL field of your browser. For example, 10.1.23.73. The following embedded web page will be displayed



4. On the product's web page, choose [**FW Update**] on the left side. The [**FW Update**] page will be displayed.
5. Choose [**Browse**] to find the firmware file on your computer.]
6. Choose [**Update**] to begin updating the firmware to the product.

4. Configuring Printer Driver

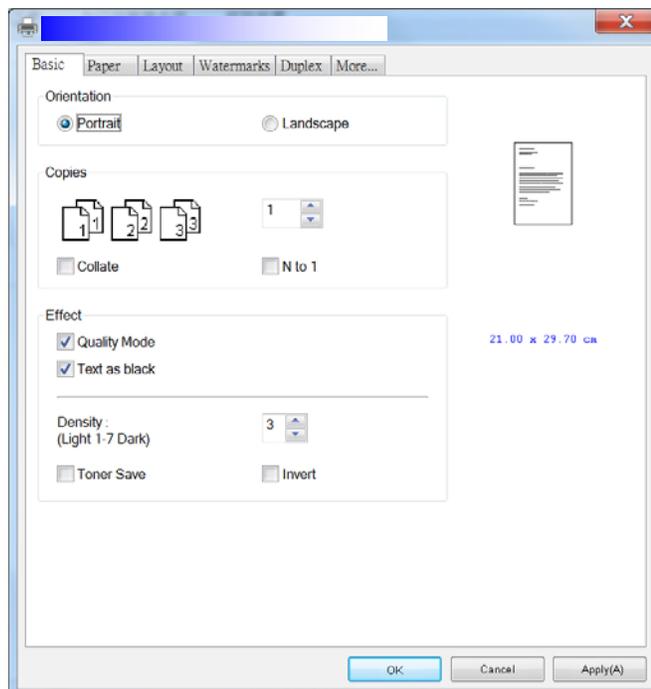
Displaying the Printer Driver Properties Dialog Box (Windows)

To display the Printer Driver Properties dialog box,

1. Click **Start** on the system tray and choose **Printers and Faxes**.
2. Right-click the product's printer name and choose **Printing Preferences**.



3. The Printing Preferences dialog box.

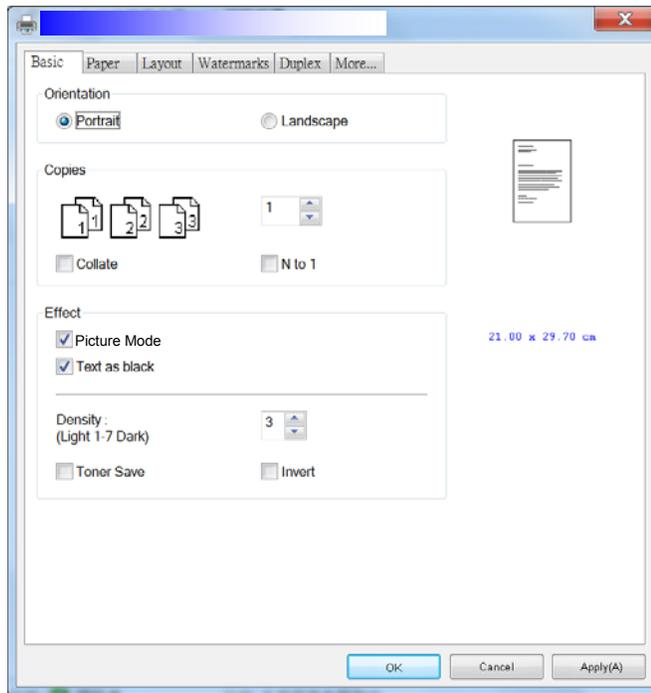


Configuring Printer Driver Settings

The Printing Preferences dialog box consists of the Basic tab, the Paper tab, the Layout tab, the Watermark tab, the Duplex tab, and the More tab. The contents of each tab will be explained in the following sections.

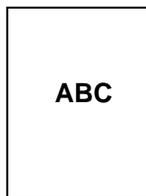
The Basic Tab

The Basic tab contains settings for Orientation, Copies, Effect, Density, Toner Save, and Invert.



Orientation

Choose your orientation. **Choice: Portrait, Landscape**



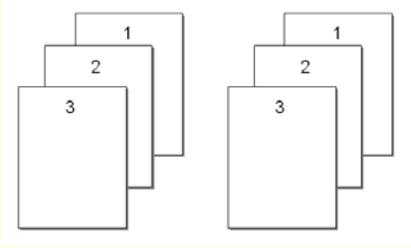
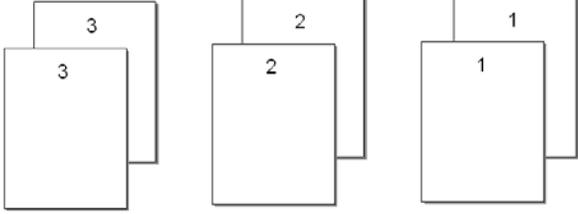
Portrait



Landscape

Copies

Choose the number of copies to be printed. You can enter up to 999.

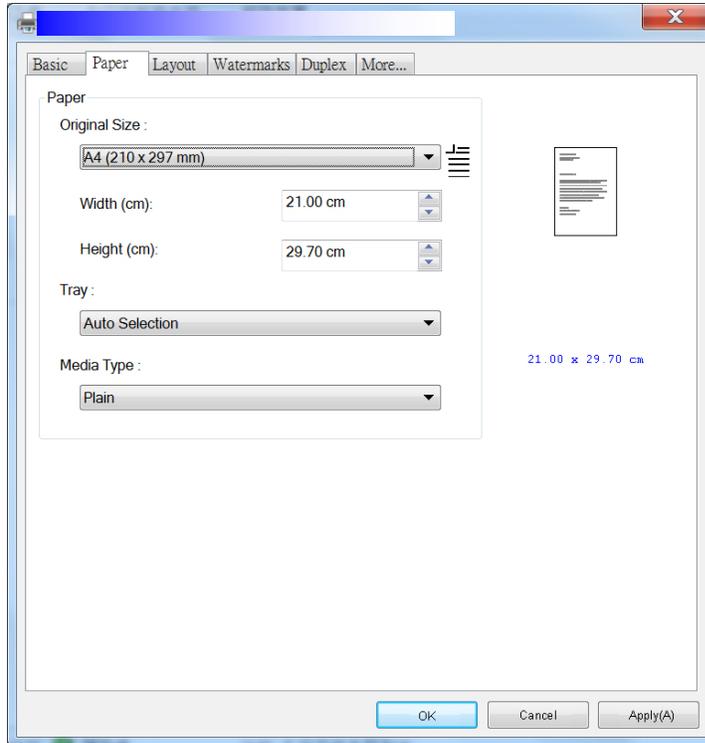
<p>Collate:</p>	<p>Click to print your document in the page order such as 1/2/3, 1/2/3, 1/2/3.</p> 
<p>N to 1:</p>	<p>Click to reverse the printing order of your document. As a result, the last page of your document will be printed first and vice versa.</p> 

Effect

<p>Picture Mode:</p>	<p>If the picture in your document does not print clearly, click Picture Mode to improve its quality.</p>
<p>Text as Black</p>	<p>Print color text in pure black.</p>
<p>Density:</p>	<p>Click to lighten or darken your document. Density level (1~7). Default: 3</p>
<p>Toner Save:</p>	<p>Allows you to print your document using the toner saving mode.</p>
<p>Invert:</p>	<p>Invert makes each image pixel inverted to its complementary color. For example: the original black text on white background becomes white text on black background.</p>

The Paper Tab

The Paper tab contains settings for Original Size, Tray, and Media Type.

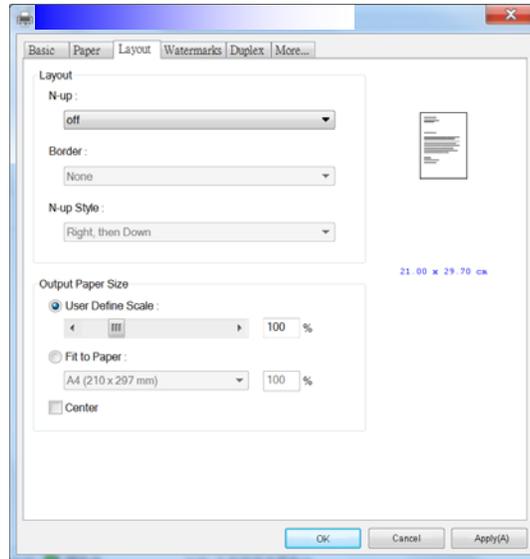


Paper

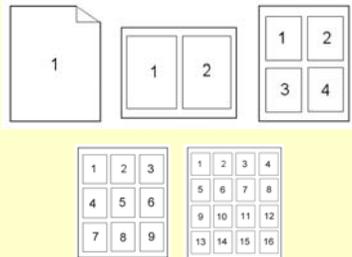
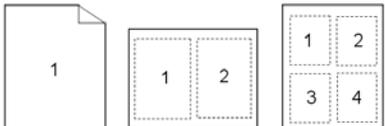
Original Size:	Choose the size of paper loaded in the designated tray. Choice: A4, A5, A6, B5, B6, Legal, Letter, User Define
Tray:	Choose the tray from which your paper should be fed. Choice: Auto, Manual Tray, Main Tray Auto means automatically select the paper tray which is available (priority: 1: manual tray; 2: main tray).
Media Type:	Choose the type of media to be used for printing. Choice: Plain, Thin, Thick, Laser Paper, *Postcard, *Bond, *Envelope *: Only available in the manual tray for one-side printing

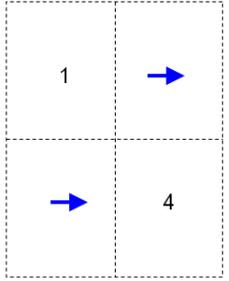
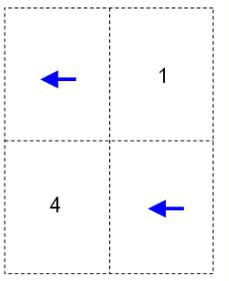
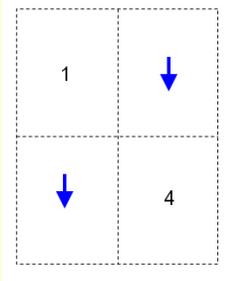
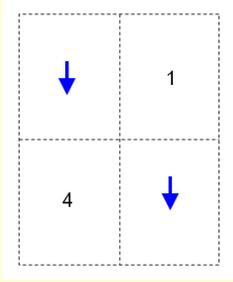
The Layout Tab

The Layout tab contains settings for N-up, and Output Paper Size.



N-up

<p>N-up:</p>	<p>Choose number of pages to be printed on a single sheet of paper.</p> <p>Choice: Off, 2up(2-in-1), 4-up(4-in-1), 9-up(9-in-1), 16-up(16-in-1)</p> 
<p>Border:</p>	<p>Choose if you wish to add border around each page when printing more than one page on a single sheet of paper.</p> <p>Choice: None, Border Line, Dashed Line</p> 

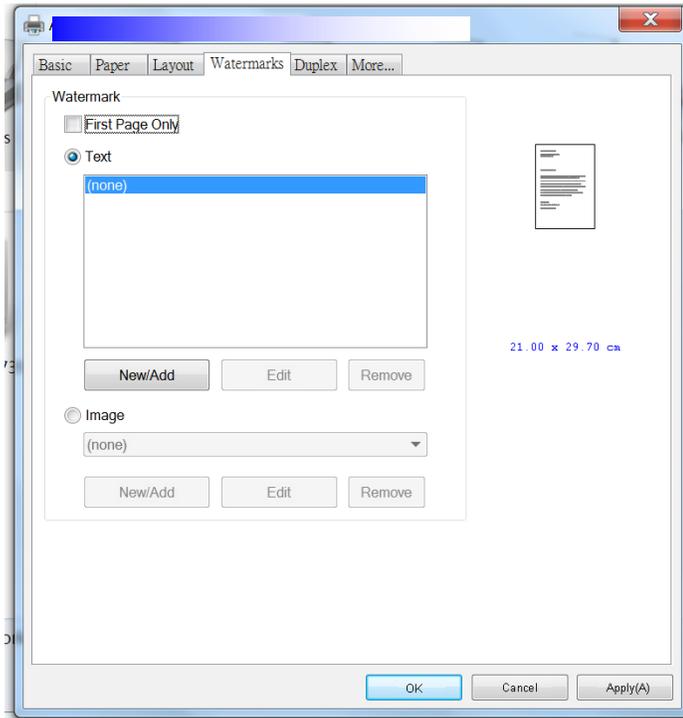
<p>N-up Style:</p>	<p>Choose the style you want when printing multi-page document on a single sheet.</p> <p>Choice: Right, then Down/Down, then Right/Left, then Down/Down, then Left</p>	
	<p>Right, then Down</p> 	<p>Down, then Left</p> 
	<p>Down, then Right</p> 	<p>Left, then Down</p> 

Output Paper Size

<p>User Define Scale</p>	<p>You can reduce or enlarge your printed image using the Slider Bar. Scaling rate: 25% ~ 400%</p>
<p>Fit to Paper</p>	<p>Output the full page of the selected original including the four margins.</p>
<p>Center</p>	<p>Print your image in the center of the output paper.</p>

The Watermark Tab

The Watermark tab allows you to add some text or image (such as CONFIDENTIAL, IMPORTANT, DRAFT, etc) for your document.

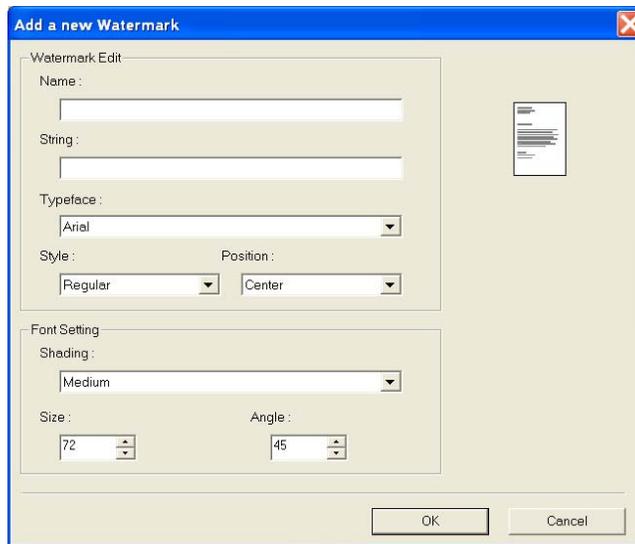


First Page only	Check to print watermark only on the first page. Clear the check box will print watermark on all pages.
Text	Choose and click New/Add to add new watermark text. Click the Edit button to change or the Remove button to delete. 
Image	Choose and click New/Add to add watermark image. Click the Edit button to change or the Remove button to delete. You can choose your image in file format such as BMP, TIFF, or JPEG.

Adding a new waterk text

To add a new watermark text,

1. Choose **Text** and then click the **Add/New** button. The following Watermark dialog box appears.



Name	Name your watermark text. This name will be shown in the Watermark text list.
String	Enter your watermark text, such as confidential, important, and so on.
Typeface	Choose your font type for your watermark text.
Style	Choose the style of your watermark text. Choice: Regular, Bold, Italic, Bold Italic.
Position	Choose the position of your watermark text. Choice: Center, Tile.

Angle	Specify the angle of the watermark text from 0° to 360°
Size	Specify the size of your watermark text from 1 to 288.
Shading	Specify a relative density for the watermark text. Choice: Lightest, Light, Medium, Dark, Darkest.

2. Click the **OK** button to save the settings. If the new watermark text is created successfully, the watermark name will be shown in the Text list.

Editing a current watermark text

To edit a current watermark text,

1. Choose the watermark name that you wish to edit from the Text list.
2. Click the **Edit** button. The Watermark Edit dialog box appears.
3. Change your settings for the selected watermark text and choose **OK** to complete.

Removing a current watermark text

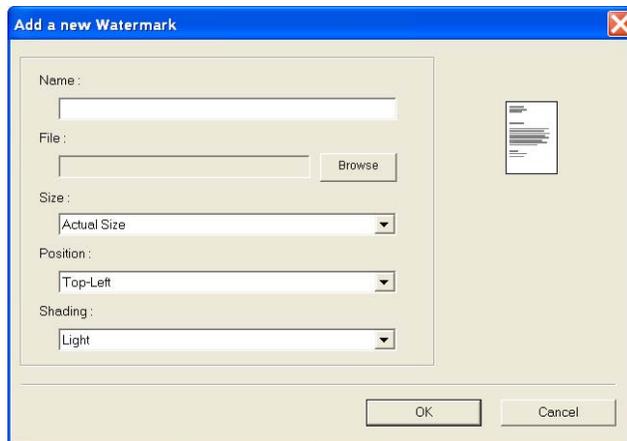
To remove a current watermark text,

1. Choose the watermark name that you wish to remove from the Text list.
2. Click the **Remove** button. The watermark text will be removed.

Adding a new waterk image

To add a new watermark image,

1. Choose **Image** and then click the **Add/New** button. The following Watermark dialog box appears.



Name	Name your watermark image. This name will be shown in the Watermark image list.
File	Click the Browse button to locate your watermark image.
Size	Specify the size of your watermark image. Choice: Actural Size, Fit to Page, Tile.
Position	Choose the position of your watermark image. Choice: Top-Left, Top-Center, Top-Right, Center, Center-Left, Center-Right, Bottom-Center, Bottom-Right, Bottom-Left.
Shading	Specify a relative density for the watermark text. Choice: Lightest, Light, Medium, Dark, Darkest.

2. Click the **OK** button to save the settings. If the new watermark image is created successfully, the watermark name will be shown in the Image list.

Editing a current watermark image

To edit a current watermark image,

1. Choose the watermark name that you wish to edit from the Image list.
2. Click the **Edit** button. The Watermark Edit dialog box appears.
3. Change your settings for the selected watermark image and choose **OK** to complete.

Removing a current watermark Image

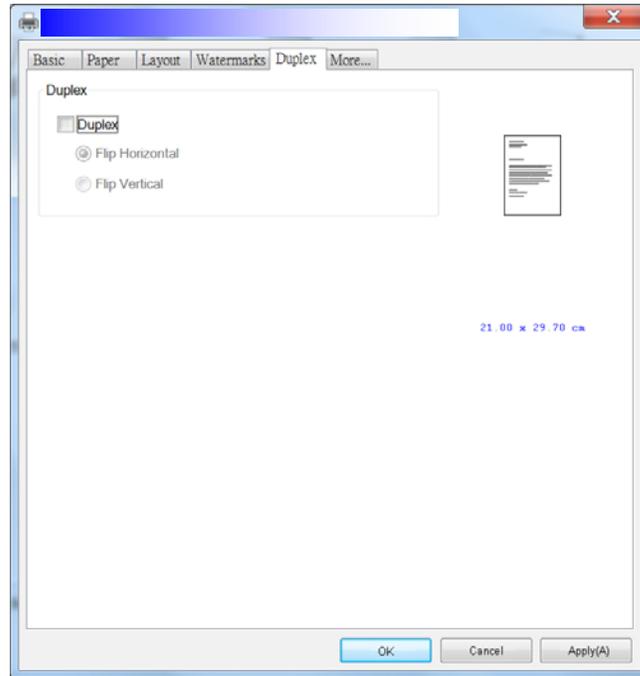
To remove a current watermark image,

1. Choose the watermark name that you wish to remove from the Image list.
2. Click the **Remove** button. The watermark image will be removed.

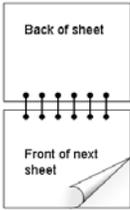
The Duplex Tab

The Duplex tab allows you to print your document on two sides of the paper.

Choice: Flip Horizontal, Flip Vertical.



Duplex

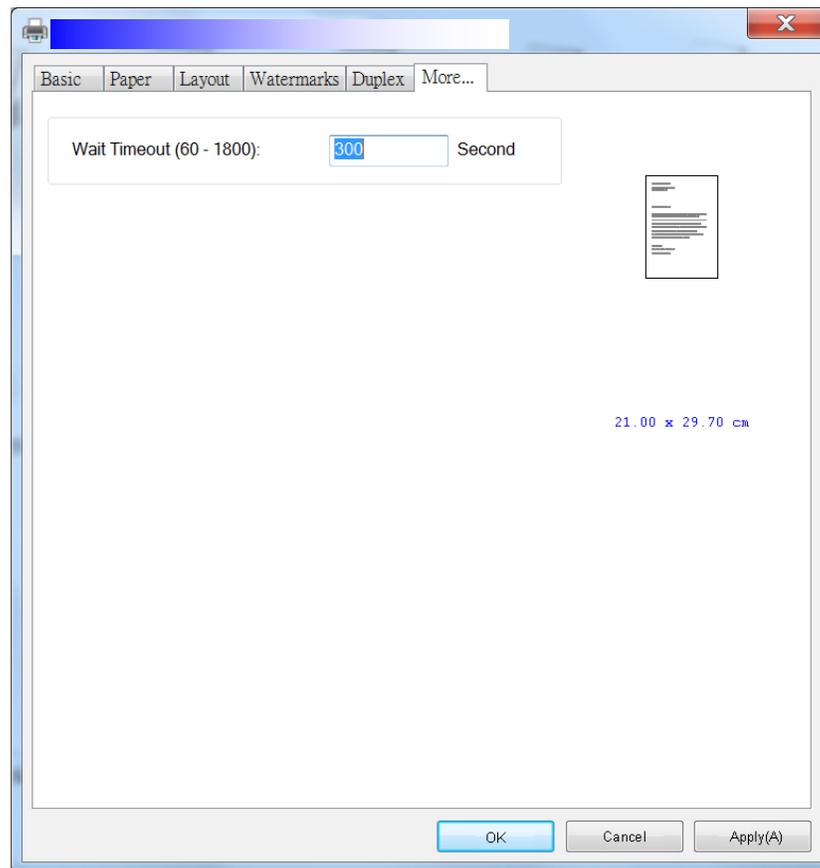
Flip Horizontal	Check to flip the duplex document on the left edge.  A diagram showing a sheet of paper with a vertical fold line down the center. On the left side, there are four horizontal lines representing staples or punch holes, labeled 'Back of sheet'. On the right side, there are four horizontal lines representing staples or punch holes, labeled 'Front of sheet'. A small corner of the right side of the paper is shown peeling away.
Flip Vertical	Check to flip the duplex document on the bottom edge.  A diagram showing a sheet of paper with a horizontal fold line across the middle. The top half is labeled 'Back of sheet' and the bottom half is labeled 'Front of next sheet'. There are four vertical lines representing staples or punch holes between the two halves. A small corner of the bottom right of the paper is shown peeling away.

Note: The duplex feature supports only page sizes of A4, B5 and letter with paper weight between 60g/m² and 105g/m².

The More Tab

On the **More** tab, a **Wait Timeout** option is provided to set the amount of time the printer waits for data to come from computer during a job. If the data stream pauses for longer than the specified number of seconds, the job is cancelled.

Permitted timeout values: 60~1800 seconds, default timeout values: 300 seconds

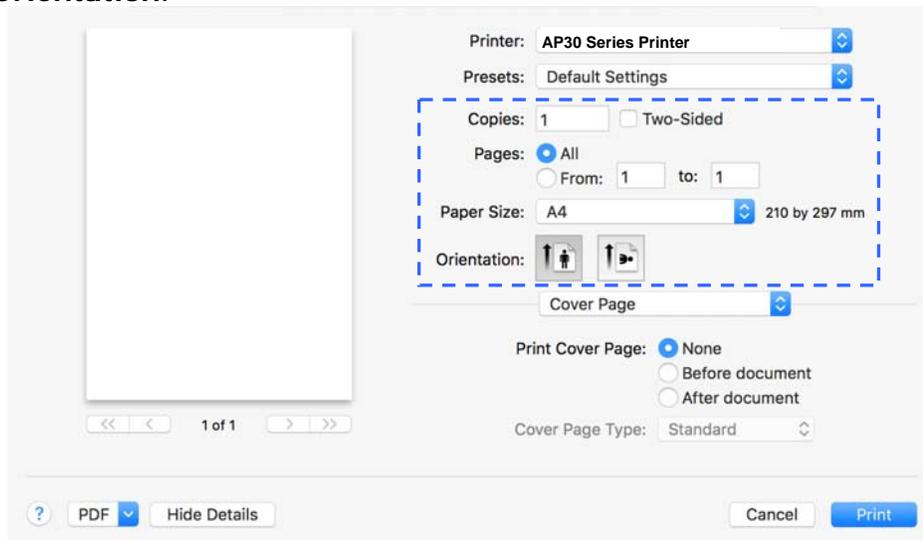


Accessing the Features of the Printer Driver (Mac OS)

The Avision AP30 Series Printer provides the following printer features. You can change the following printer settings when you print from your computer.

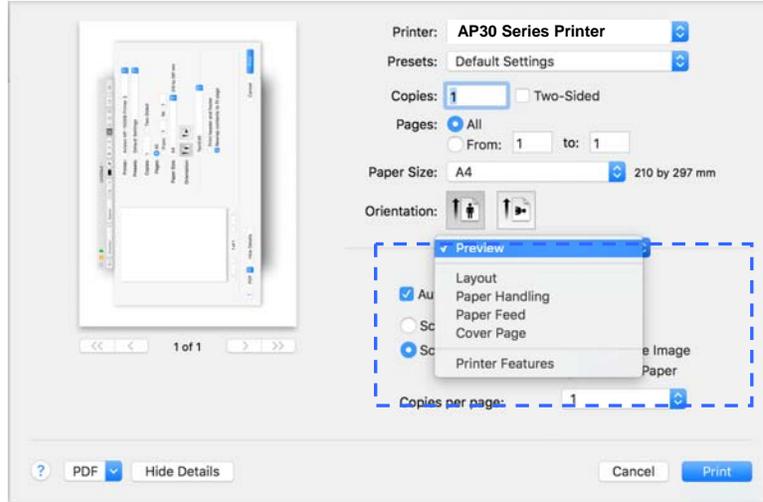
Choosing Page Setup Options

Open your document and then click **File**, then **Page**. Make sure Avision XXXX Printer (where XXXX is your model name) is chosen in the **Printer** pop-up menu. You can change the settings for **Copies**, **Two-Sided**, **Paper Size**, and **Orientation**.



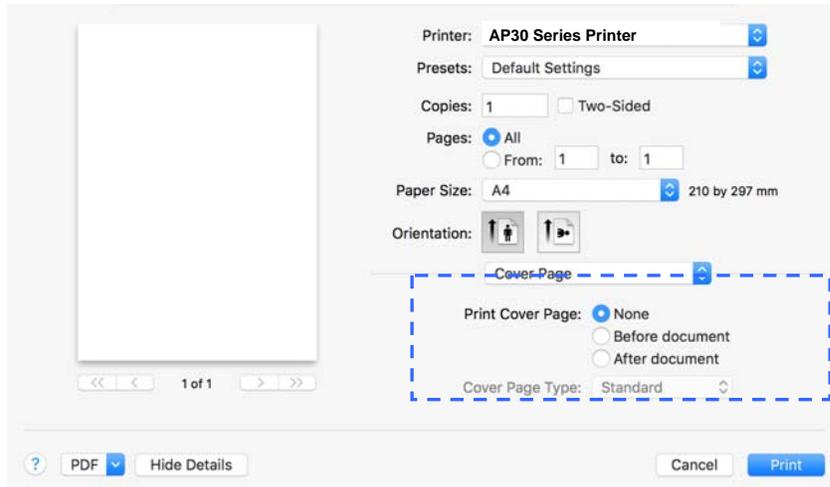
Choosing Printing Options

For more page setup options, click the disclosure arrow () on the printer options.



Cover Page

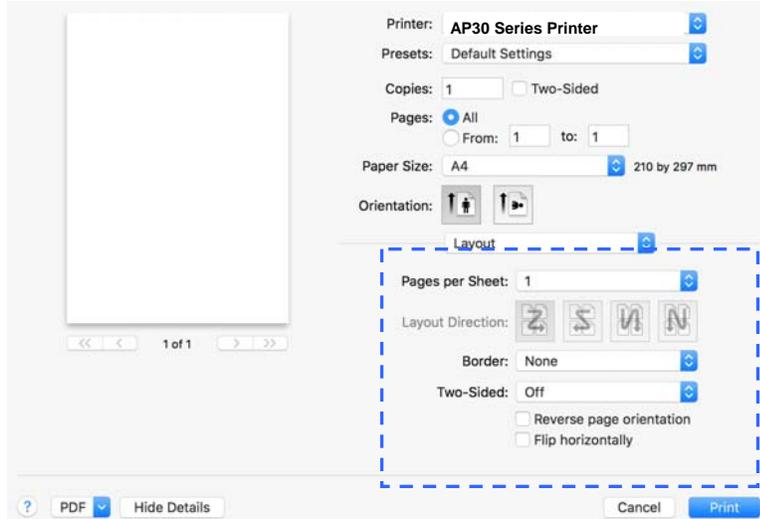
You can make the following cover page settings:

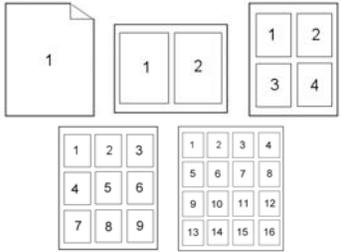
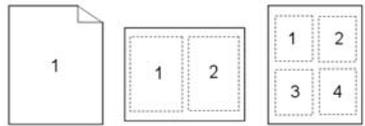


- **Print Cover page:** If you want to add a cover page to your document, use this function.

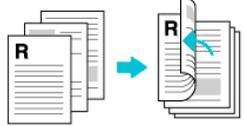
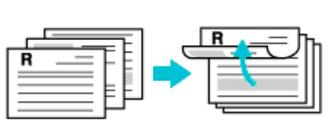
Choice: None, Before Document, After document

Layout

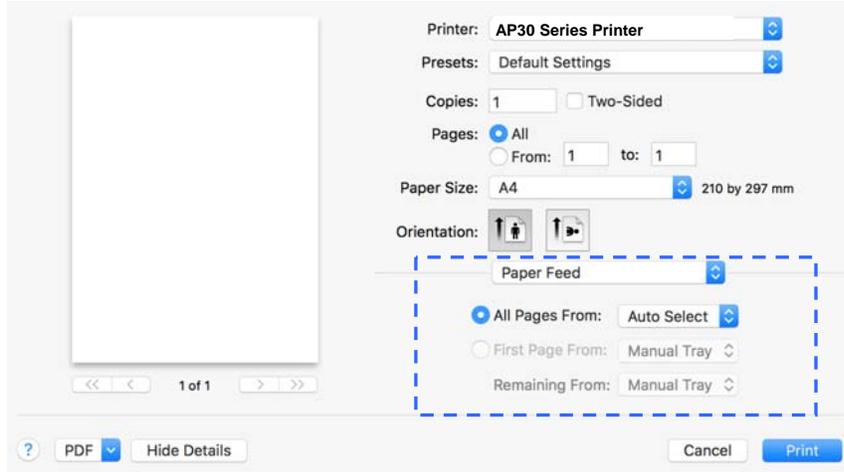


<ul style="list-style-type: none"> ● Pages per Sheet: 	<p>Choose number of pages to be printed on a single sheet of paper. Choice: 1, 2, 4, 6, 9, 16</p> 
<ul style="list-style-type: none"> ● Layout Direction: 	<p>When you specify the pages per sheet, you can also specify the direction of the layout.</p>
<ul style="list-style-type: none"> ● Border: 	<p>If you want to add a border, use this function. Choice: None, Single hairline, Single Thin Line, Double Hairline, Double Thin Line</p> 
<ul style="list-style-type: none"> ● Two-Sided: 	<p>Choice: Off, Long-Edge binding, Short-Edge binding</p> <p>When using Two-Sided printing, you can select whether to bind copies on the long-edge or short-edge. Long-Edge binding will print the pages so that you flip them like you would do on a book. Short-Edge binding prints them so that your flip them like you would do on a calendar.</p>

Configuring the Printer's Driver

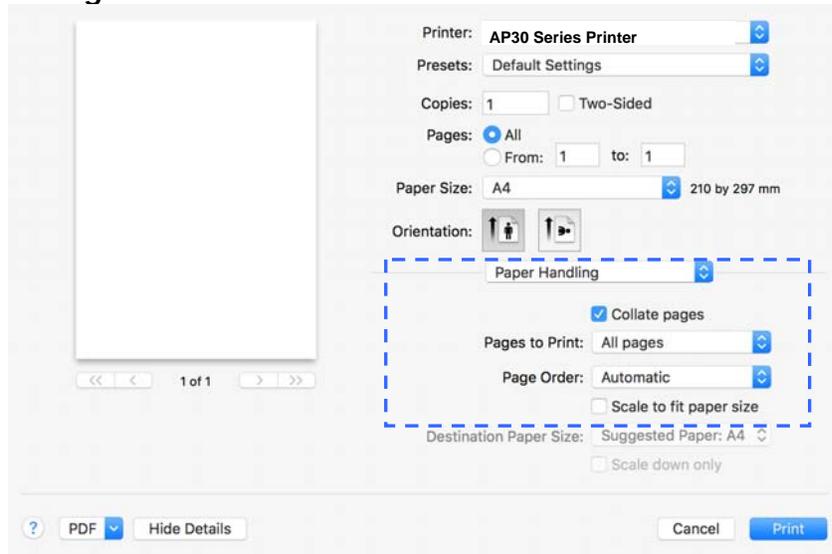
	 <p>Long-Edge binding (Portrait)</p>  <p>Long-Edge binding (Landscape)</p>  <p>Short-Edge binding (Portrait)</p>  <p>Short-Edge binding (Landscape)</p> <p>Note: The duplex feature supports only page sizes of A4, B5, and letter with paper weight between 60g/m² and 105g/m².</p>
<ul style="list-style-type: none"> ● Reverse Page Orientation: 	<p>Check Reverse Page Orientation to reverse the data from up to down.</p>
<ul style="list-style-type: none"> ● Flip Horizontally: 	<p>Check to print the pages so that you flip them like you would do on a book.</p>

Paper Feed



- **All pages From:** Choose the tray from which your paper should be fed.
Choice: Auto, Manual Tray, Main Tray
Auto means automatically select the paper tray which matches the paper size of your document.

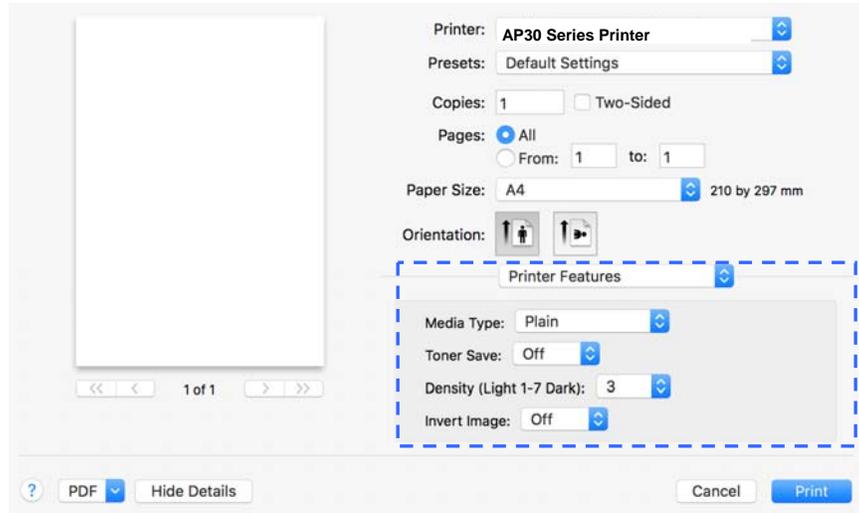
Paper Handling



- **Collate pages:** Your printer can sort multiple copy jobs. For example, if you print two copies of a three-page document and you choose not to collate them, the pages print in this order: 1, 1, 2, 2, 3, 3. If you choose to collate, the pages print in this order: 1, 2, 3, 1, 2, 3.

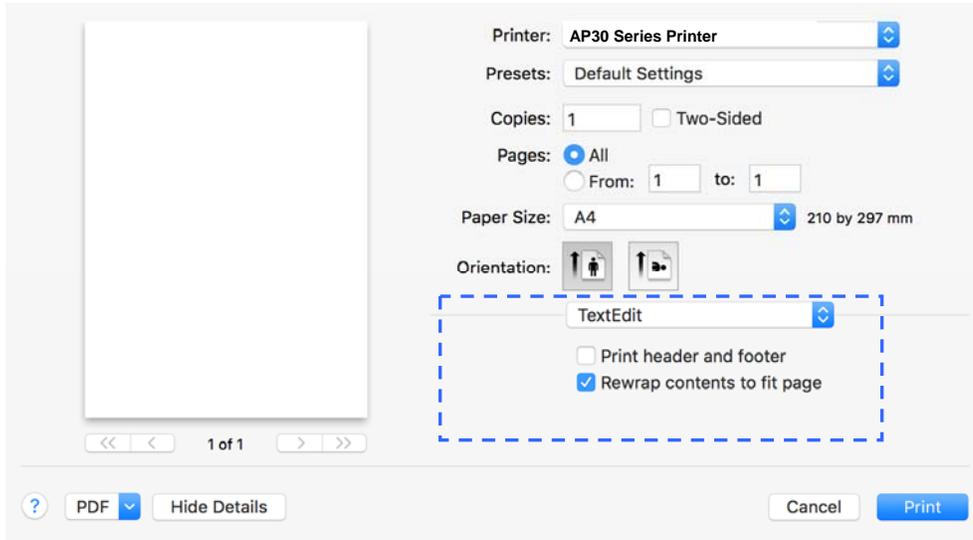
● Pages to Print:	Select how many pages you wish to print.
● Page Order:	Choice: Automatic, Normal, Reverse
● Scale to fit paper size:	Output the full page of the selected original including the four margins.

Printer Features



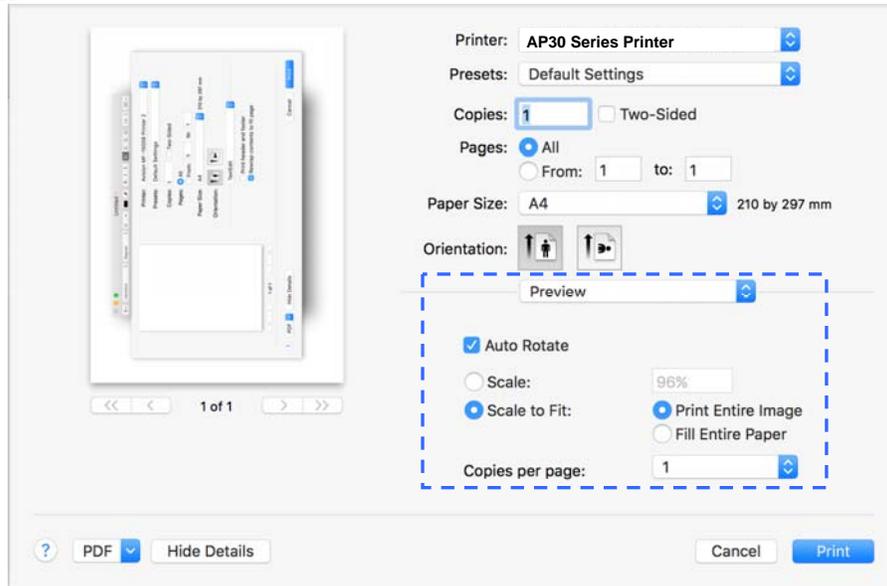
● Media Type:	Choose the type of media to be used for printing. Choice: Plain Paper, Thin Paper, Thick Paper, Laser Paper, *CardStock, *Bond, *Envelope *: Only available in the manual tray for one-side printing
● Toner Save:	Allows you to print your document using the toner saving mode.
● Density Level (Light 1 ~7 Dark)	Click to lighten or darken your document. Choice: 1 ~ 7. (Default: 3)
● Invert Images:	Invert makes each image pixel inverted to its complementary color. For example: the original black text on white background becomes white text on black background. Choice: *off/On

TextEdit



<ul style="list-style-type: none">● Print Header and Footer:	If you wish to print header and footer, use this function.
<ul style="list-style-type: none">● Rewarp contents to fit page:	Adjust contents to fit your page.

Preview



<ul style="list-style-type: none"> ● Auto Rotate: 	<p>Check to automatically rotate your image to fit your paper.</p>
<ul style="list-style-type: none"> ● Scale: 	<p>Enlarge or reduce your image. Choice: Print Entire Image, Fill Entire Paper</p>

5. Printing

Cancelling a print job

You can stop a print request by using the control panel or by using the software program. For instructions about how to stop a print request from a computer on a network, see the online Help for the specific network software.

Stopping the current print job from the control panel

Press the Cancel button on the control panel.

Stopping the current print job from the software program

When you send the print job, a dialog box appears briefly on the screen. You can cancel the print job from the dialog box.

If several requests have been sent to the product through your software, they might be waiting in a print queue (for example, in Windows Print Manager). See the software documentation for specific instructions about canceling a print request from the computer.

If a print job is waiting in a print queue or print spooler, delete the print job there.

1. Windows XP and Windows Server 2003 (using the default Start menu view): Choose **Start>Printers and Faxes** in succession.

Or

Windows 2000, Windows XP, and Windows Server 2003 (using the Classic Start menu view): Choose **Start>Settings>Printers** in succession.

Or

Windows Vista (using the Classic Start menu view): Choose **Start>Settings>Printers** in succession.

Or

Windows Vista (using the default Start menu view): Choose **Start>Control Panel>Hardware and Sound>Printers** in succession.

Or

Windows 7: Choose **Start>Control Panel>Hardware and Sound>Devices and Printers** in succession.

2. In the list of printers, double-click the name of this product to open the print queue or spooler.
3. Select the print job that you want to cancel, and then press **Delete** from the **Document** menu.

6. Printing Documents from a Mobile Device

By connecting an external USB dongle (Wi-Fi module) to the product and installing the Mopria™ app on your Android mobile device, the product can be converted into a wireless device and your mobile device is able to print emails and documents by simply tapping Print from the menu,.

Making Preparation

To connect the product to a wireless LAN, prepare the followings:

- **An environment in which a wireless LAN is available**

When connecting the scanner to a wireless LAN, you may need information for a wireless access point such as an SSID (network name) and a security key (password). For details, contact your Network Administrator or refer to the manual for the wireless access point.

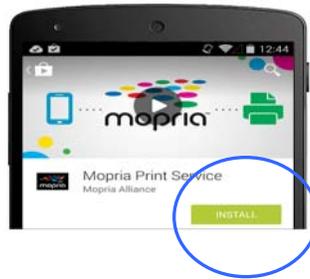


Attention!

Do not place obstacles that block radio waves (e.g. walls or metal plates) or devices that cause radio wave interference (e.g. cordless phones) within 100 mm of the product, or near your wireless access point.

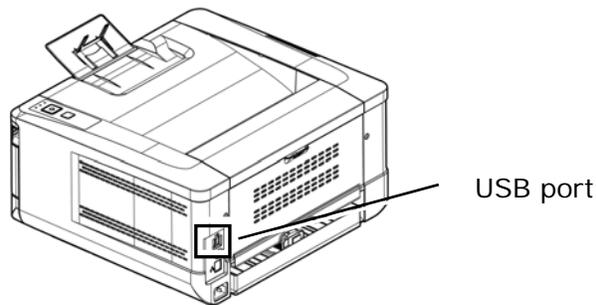
- **Mopria Print Service**

The Mopria Print Service (app) can be downloaded from the Google Play Store to enable print functionality on any Android phone or tablet (Android version 4.4 or later). Once installed, simply connect your device to the same network as the printer and your mobile print can be completed.



Connecting a USB dongle

Insert the supplied USB dongle (Wi-Fi Module) to the USB flash port at the back of the product, and then turn on the product.



Connecting to a Wireless Network via the Network Setup Tool

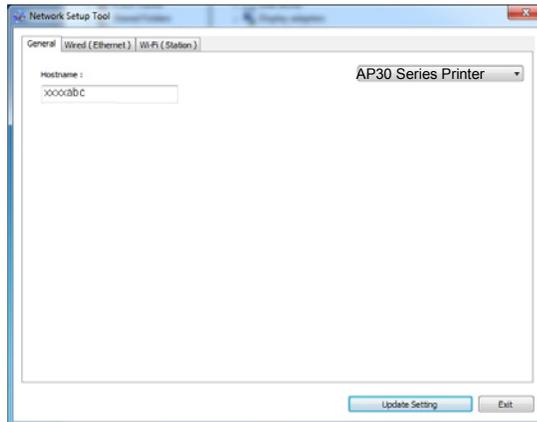
Before You Begin!

- Make sure the computer has been connected to the product via the USB cable.
- Make sure the power adapter has been connected and the product has been turned on.

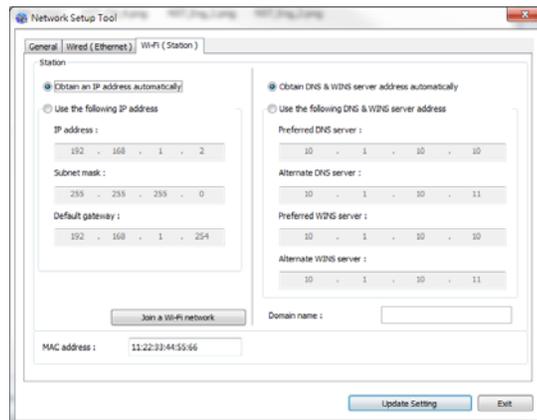
The **Network Setup Tool** is an application to configure the settings required for connecting the product via wireless LAN. The **Network Setup Tool** can be used to configure the following wireless or wired settings:

- Connecting the product to a wireless access point
- Connecting the product to a wired network
- Setting the IP address for the scanner

1. Launch the program by clicking the **Start>All Programs>Avision AP30 Series Printer>Network Setup Tool**. The main window appears.



2. Check [**Wi-Fi (station)**].



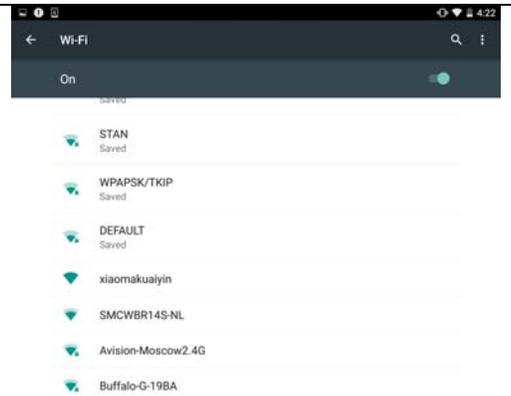
3. Enter your static IP on the [**IP Address**], [**Subnet Mask**], and [**Gateway**] field respectively or you may check [**DHCP**] to obtain the IP address directly from the DHCP server.
4. Select the wireless network you want to connect from the [**SSID**] box. Enter the security key if necessary.
5. Click [**Update**] to start connecting the SSID (wireless network name) and then update the IP information to the product.
6. If update is successfully, an [**Update Device Successfully**] message will be displayed and the Network Setup Tool will be automatically closed.

Printing Your File from a Android Mobile Device

Make sure that the Mopria Print Service (Print App) has been installed on your Android mobile device. The **Mopria Print App** can be purchased for free from an application store such as Google Play.

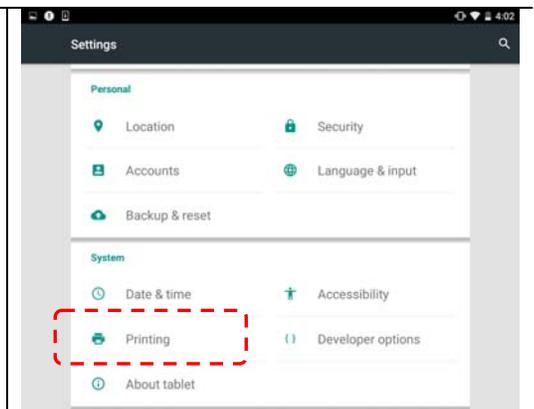
1. Select same wireless network as your printer.

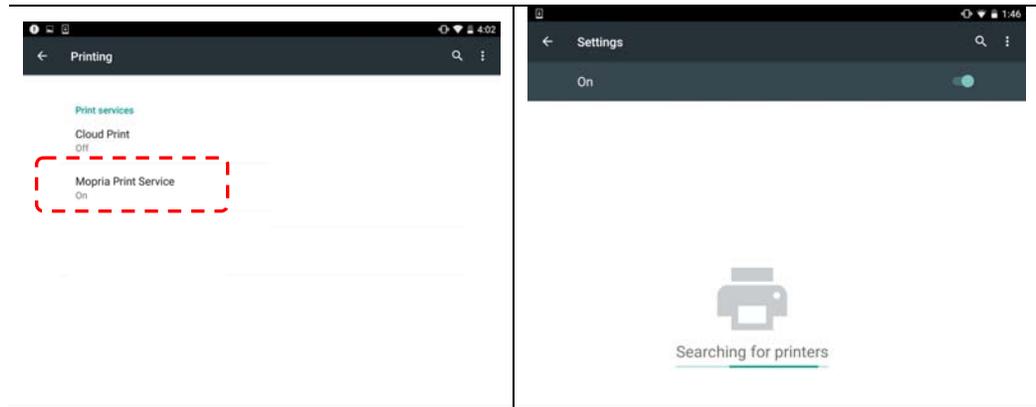
On your mobile device, tap **Settings**>**Wi-Fi** and choose the same network name (SSID) of your printer.



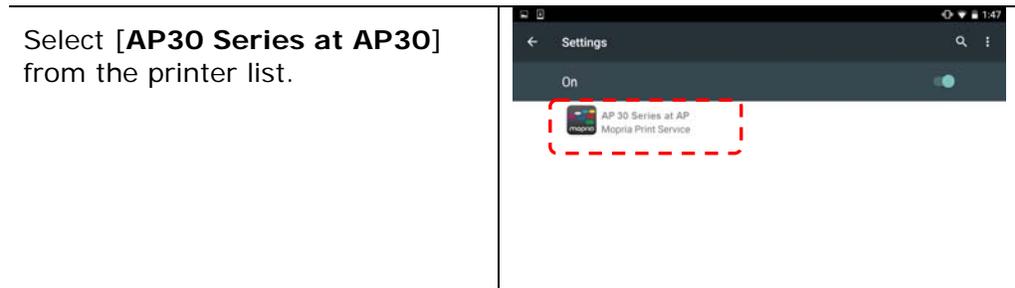
2. Turn Mopria Print Service on. The device will search available printers.

On your mobile device, tap **Settings**>**Printing**>**Mopria Print Service** to turn Mopria Print Service on. The Device will search for all available printers.

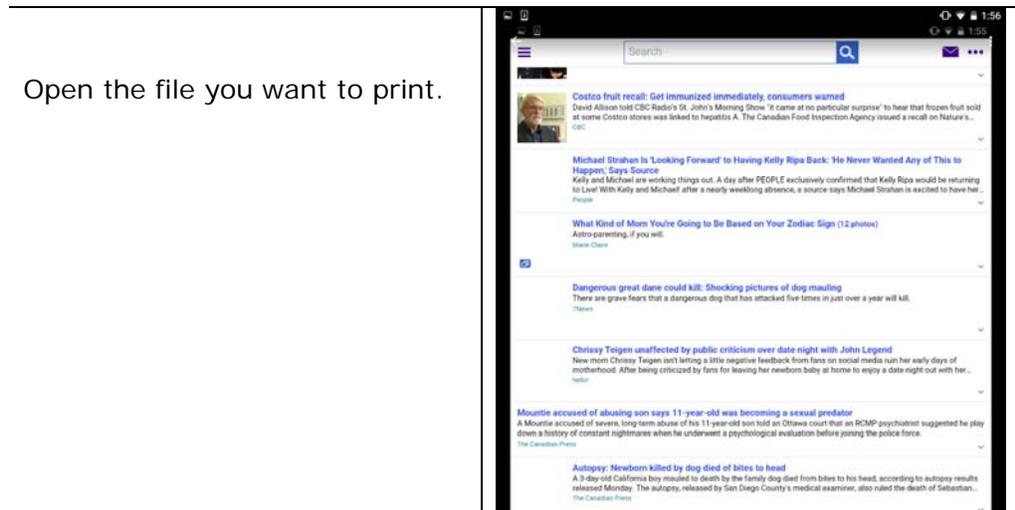




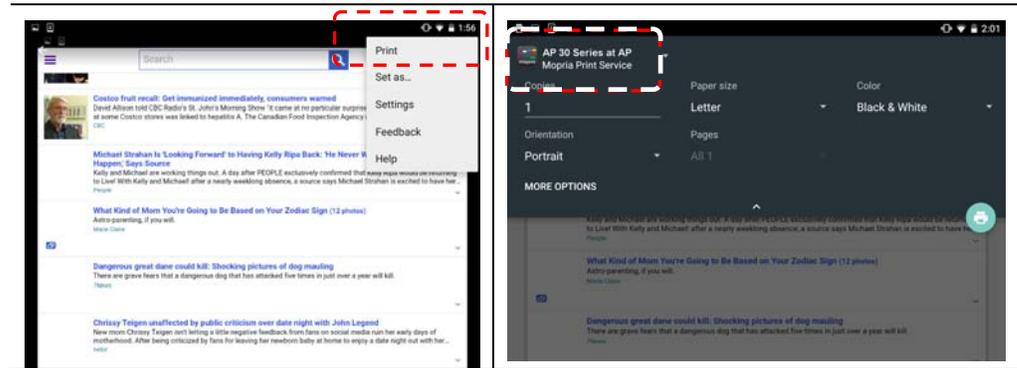
- 3. Select your printer.



- 4. Open the file which you want to print.

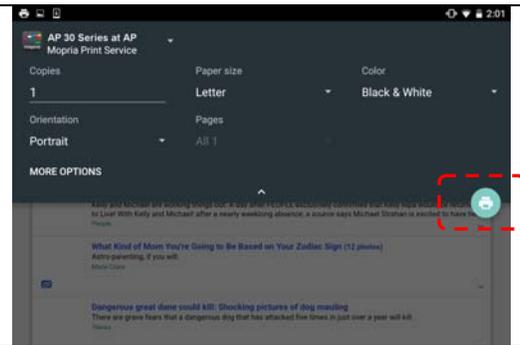


- 5. Choose **[Print]** from the menu and select your printer.



6. Choose print settings and print.

- If you do not need to change print options, tap **Print** to send the print job.
- If you need to change print options, continue to the next section.

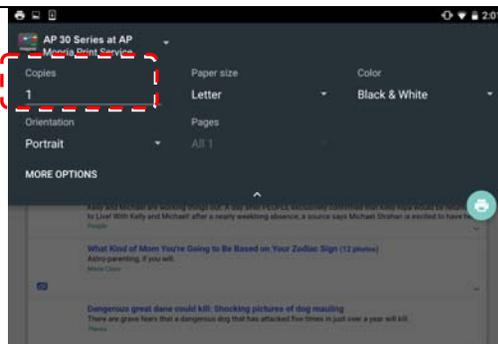


Change the Print Settings

Mopria Print Service allows you to print web pages, documents, emails, photos, and content from apps that support Android printing. Print settings may vary depending on the app and printer selected. The following print options may display:

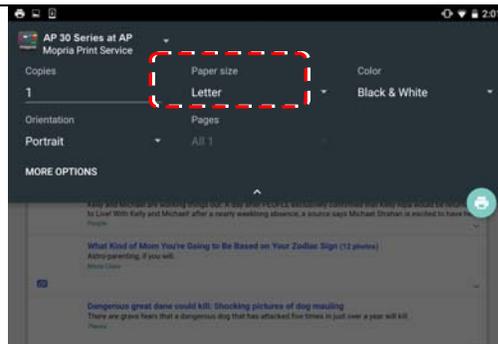
Number of Printed Copies

Tap **[Copies]** to enter your desired copy count if you want to print more than one copy.



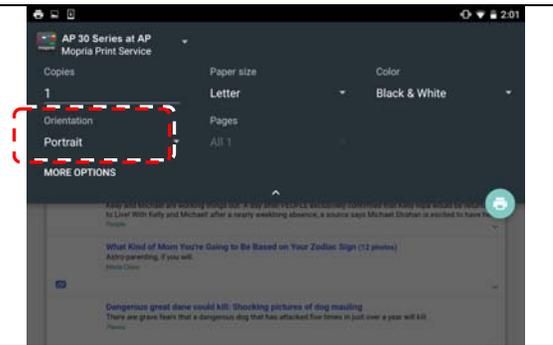
Changing the Paper Size

In the print settings menu, tap **[Paper size]**, then select the **[paper size]** option from the menu: Letter, A4 may be options offered depending upon the app or printer.



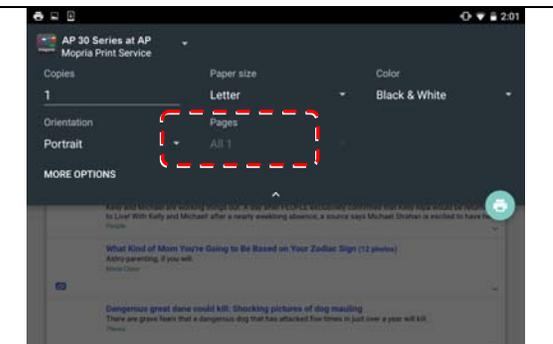
Changing the Orientation

In the print settings menu, tap **[Orientation]**, then select the option you prefer. Portrait or landscape may be options offered depending upon the app or printer.



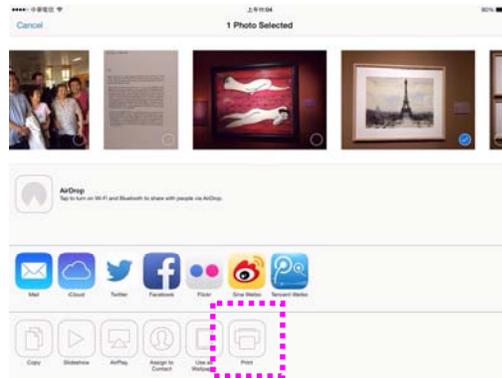
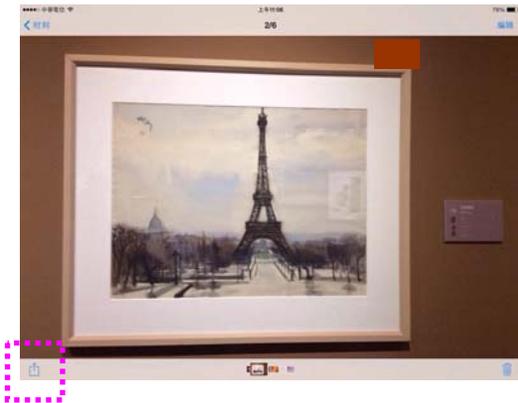
Defining the Page Range

In the print settings menu, to print multiple pages, tap **[Pages]**, and then select the page range that you want to print. **NOTE: Pages** will only display with certain applications and file types, such as PDFs.

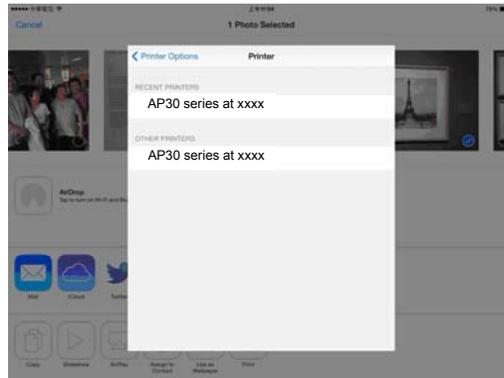
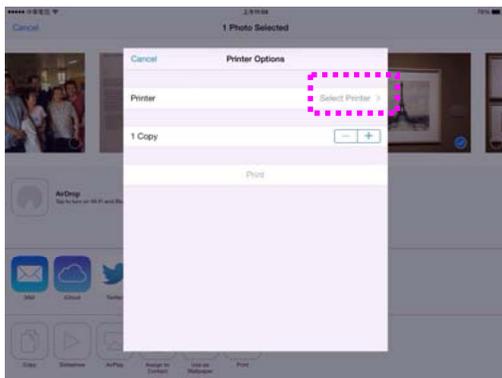


Printing Your File from a iOS Mobile Device

1. Turn on your mobile devices such as iPhone or iPad.
2. Tap 「**Settings**」 and then open Wi-Fi. Select the network same with your printer.
3. Open the picture or the document that you want to print. Tap the Share icon () and then the print icon ().



4. Tap [Select Printer] and choose your desired printer.



5. Tap [Print] to start printing.



7 Troubleshooting

Monitoring Your Printer Using Printer Status Monitor

The Printer Status Monitor allows you to monitor your printer's status, get information on consumable parts, and alerts you when printer errors occur.

Printer Status Monitor is available when the printer is connected directly to a host computer via the USB port or a network port.

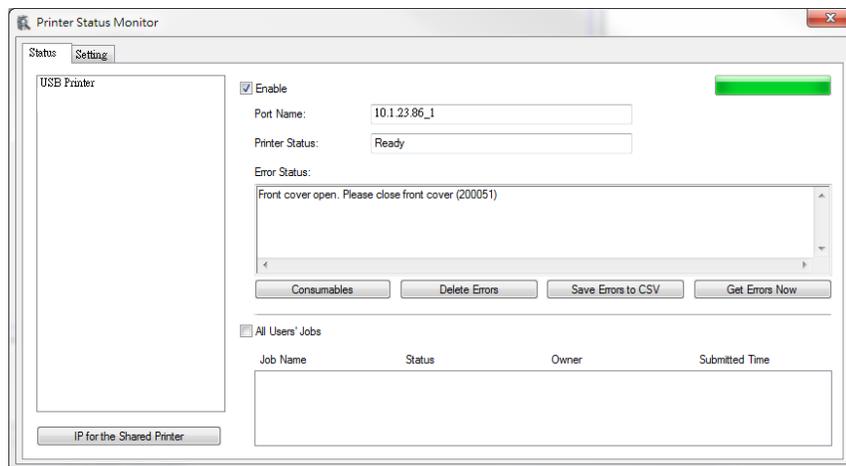
Printer Status Monitor is installed when you install the printer driver as described in the preceding section.

Accessing Printer Status Monitor

Double-click the **Printer Status Monitor** icon on the system tray. The following printer status window appears.



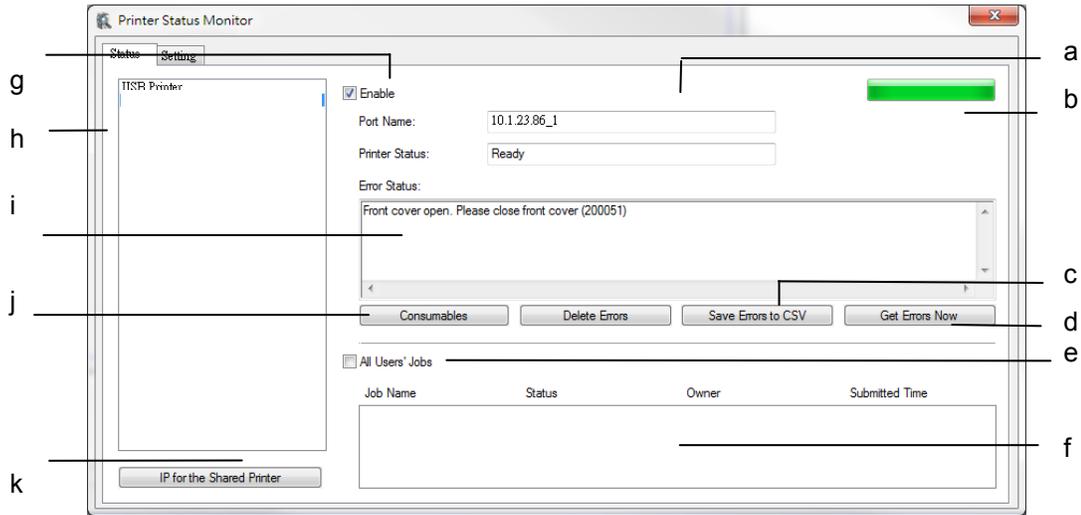
Printer Status Monitor icon



Printer Status Window

Getting Printer Status Details

You can monitor printer status and get information on consumable products using the Printer Status Monitor dialog box.

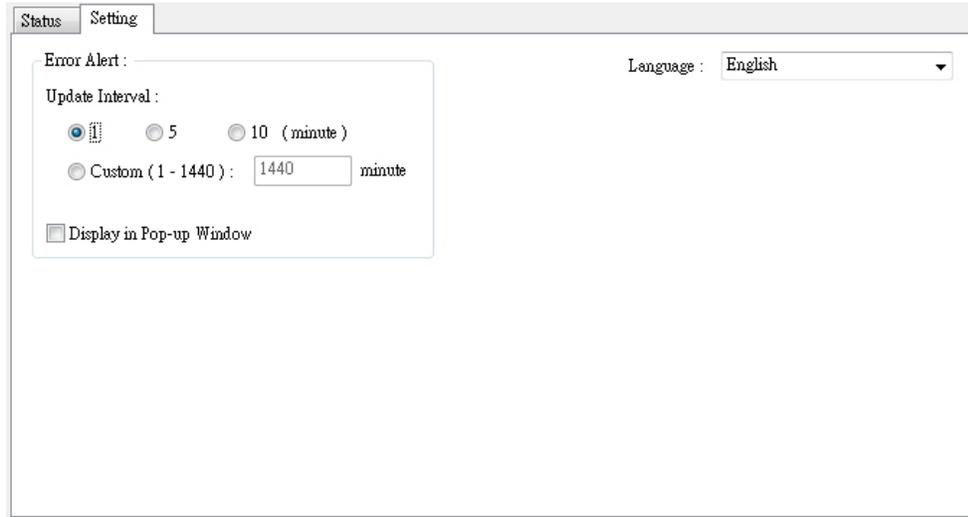


a Port Name	Port name for the specified printer.
B Progress Bar	The progress bar to access the latest data of the specified printer.
C Delete Errors	Delete all the error messages.
D Save Errors to CSV	Save error message to a CSV file.
E All Users' Jobs	Check the box to show All users' jobs.
F Job Box	Show all the jobs in queue.
G Enable	Check the box to enable accessing the status of a specified printer.
h Printer	Displays connected printers.
I Text Box	Displays the current status of the printer.

<p>J Consumables</p>	<p>Click to show the information of the paper tray and the consumables parts such as Drum Unit, Toner Cartridge.</p> <div data-bbox="711 390 1208 739" data-label="Image"><p>The screenshot shows a 'Consumables' window with the following details:</p><ul style="list-style-type: none">Toner Usage Remain: A progress bar and a text box showing '0 %'.Drum Usage Remain: A green progress bar and a text box showing '85 %'.Manual Tray (Size, Count, Media): A3 LEF, 0, Laser.Tray 1 (Size, Count, Media): Letter LEF, 250, Plain.Tray 2 (Size, Count, Media): A3, 125, Plain.Tray 3 (Size, Count, Media): -, -, -.Tray 4 (Size, Count, Media): -, -, -.An 'OK' button is located at the bottom right of the window.</div> <p>The Consumables window</p>
<p>k IP for a Shared Printer</p>	<p>Click here to enter the IP for a shared printer to get the printer status.</p>

Setting Monitoring Preferences

To make specific monitoring settings, click the Setting tab on the Avison Status Monitor window.



Language	Displays the language of the window.
Status Alert	
Update Time	Define the interval to refresh the printer error status. Choice: 1, 5, 10 (minute), Custom (1 ~ 1400 minute)
Display in Pop-up Window	Check the [Pop-up Window] box to automatically show the error status in a pop-up window on the system tray.

Clearing A Warning or An Error

If a problem occurs during operation, the Error LED will be flashing to indicate a warning or an error status. To solve the problem, please refer the following table for more detailed information.

Warning Message

Message	Description or Solution
Toner low (200032).	Toner that remains is lower than 10%. The machine can still perform printing or copying function yet with poor quality.
Drum near end (200043).	Drum that remains is lower than 10%. Call the service personnel to order and replace the drum.
Toner empty (200031)	Toner has run out. Replace a new toner cartridge.
No Drum (200041)	Please install drum and restart PRINTER.
Drum life ends (200042)	Drum life has been exhausted. Call the service personnel to order and replace the drum module.

Error Message

Error Message and Codes	Possible Causes or Solution
System error	
Service code: 100111	Restart PRINTER. If this error persists, call service personnel for help.
Scan module error (000113) Restart PRINTER or call service.	An unexpected error from scanner parts occurs. Restart PRINTER or call service to replace scanner parts that fail.
Printer module error. Please restart PRINTER or call service (205000, 205001, 205101).	An unexpected error from printer parts occurs. Restart PRINTER or call service personnel to replace printer parts that fail.
Fax module error (300000). Restart PRINTER or call service	The fax board is not installed or damaged. Restart PRINTER or call service to replace the fax board.
Motor error (000001). Press # button to erase or call service.	When PRINTER is booted, the scanner and printer engine Initialization fail. Restart PRINTER.
Scanner lamp error (002007). Please close flatbed cover and Press # button to erase or call service.	The CIS lamp is damaged or not lit. Call service personnel to replace the CIS unit.
Fan fails (200090).	Call service personnel to replace the fan.
Front cover opens (200051).	Please close front cover.
Rear cover opens (200054).	Please close rear cover.
Continue feed error (200000).	Please open front cover to clear the paper and load paper to proper tray.
Fuser error (201600, 201604~5, 201613, 201615~201618, 201621~201623)	Please restart PRINTER. If the error persists, call service personnel for help.

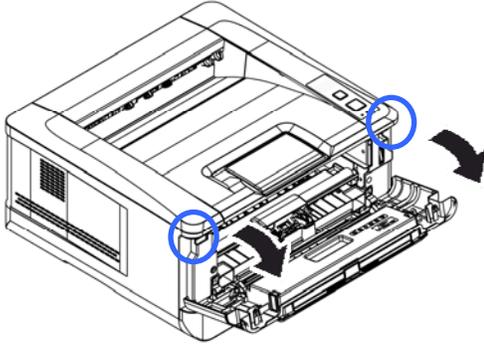
Please load paper in manual tray (200080).	Paper empty in the manual tray.
Please check tray 1 (200003).	Pick up error. Paper empty, paper jam, or pickup failed in tray 1.
Please load paper to tray1 (200081)	Tray 1 paper empty.
IP conflict (500000). Please check network settings.	Check your network setting.
DHCP no response (500002). Please check network settings.	Check network settings.
USB flash disk not found.	Insert USB flash drive to the USB flash port.
USB flash disk connection fails. Job abort.	Check the connection of USB flash drive.
PRINTER not ready. Try again later.	PRINTER is busy with current job. Wait until current job is completed.
Buffer full Job abort.	Memory is not enough to process the scanned images.
Buffer full Print scanned images : 1 Cancel job : 2	Memory is not enough to process the scanned images. Press [1] to print the first few images which have not exceeded the memory limit or press [2] to cancel job.
Resetting default settings fails. Please try again later.	Resetting default settings.
Scanner Calibration fails. Please try again later.	Please try again by pressing the Menu button and then choosing System>Management>Calibration.
Reset count fail. Please try again later.	Please try again by pressing the Menu button and then choosing System>Management>Reset count.
Setting fails. Please try again later.	Setting the Menu option fails. Check your setting.

Full page not support N in 1	The Full page feature does not support N in 1 (2 in 1 or 4 in 1).
Custom zoom not support N in 1	The Custom Zoom feature does not support N in 1 (2 in 1 or 4 in 1).

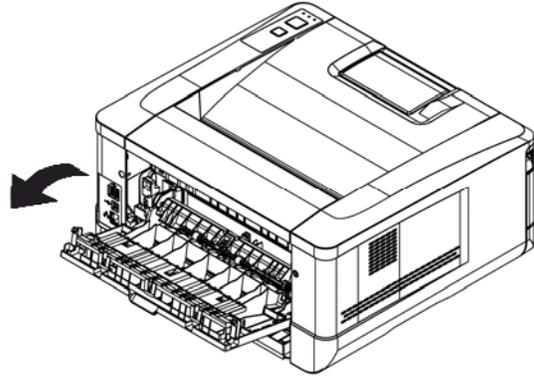
Paper Jam	
ADF paper jam (002013). 1. Open ADF cover and clear paper. 2. Close ADF cover.	
Paper jam (200301). Please check manual tray.	
Paper jam (200302). Please open front cover and tray 1 to clear jam paper.	
Paper jam (200324). Please open front cover and tray 1 to clear jam paper.	
Paper jam (200325). Please open front cover and pull drum unit out to clear jam paper.	
Paper jam (200326). Please open front cover and pull drum unit out to clear jam paper.	
Paper jam (200327). Please open front cover and pull drum unit out to clear jam paper.	
Paper jam (200328). Please open front cover and pull drum unit out to clear jam paper.	
Paper jam (200329). Please open front cover and pull drum unit out to clear jam paper.	
Paper jam (200330). Please open front cover and rear cover to clear jam paper.	
Paper jam (200331). Please open front cover and rear cover to clear jam paper.	
Paper jam (200332). Please open front cover and rear cover to clear jam paper.	
Paper jam (200333). Please open front cover and rear cover to clear jam paper.	
Paper jam (200334). Please check duplex tray.	
Paper jam (200335). Please check duplex tray.	

Locations of the Jammed Paper

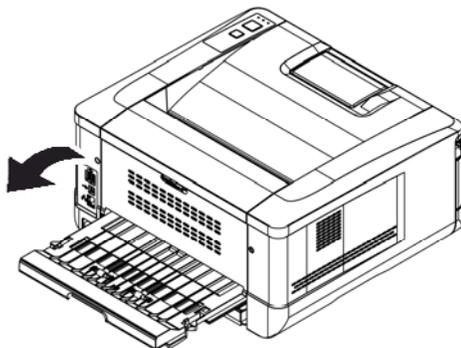
Front Cover: Open the front cover by pulling the handles of the front cover on both sides as illustrated.



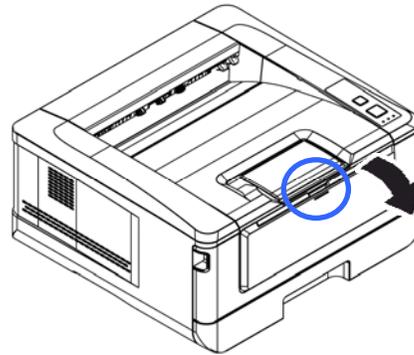
Rear Cover: Open the rear cover by pulling the handle of the rear cover as shown.



Duplex Tray: Pull the duplex tray beneath the rear cover out of the main unit.



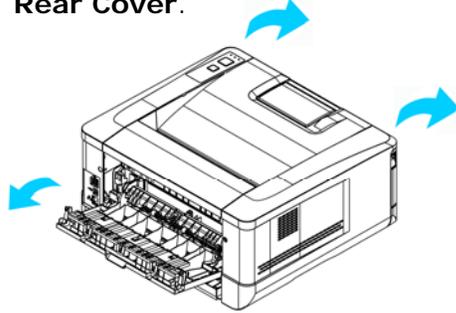
Manual Tray: Open the manual tray by grasping the handle and pull it down.



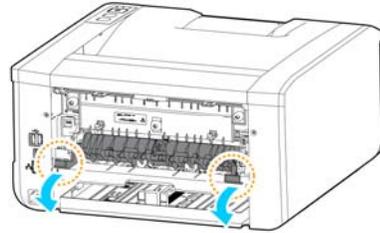
Fuser:

The area around the fuser is hot. To avoid a burn injury, be careful not to touch the fuser until it cools down and follow these steps to remove the jammed paper:

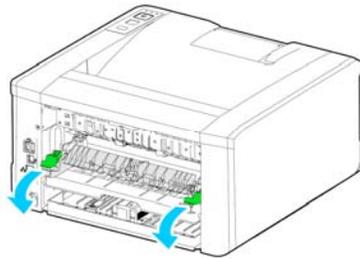
1. Open the **Front Cover** and the **Rear Cover**.



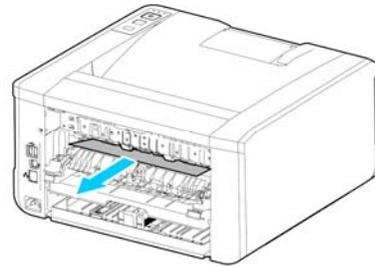
2. Pull down the **Fuser Path** as indicated.



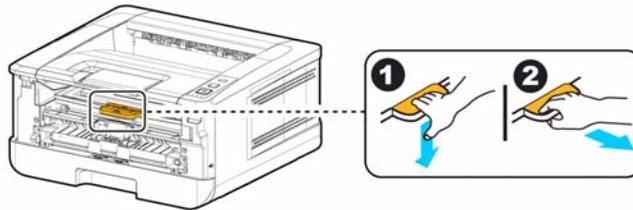
3. Pull down the **Release Arm** on both sides.



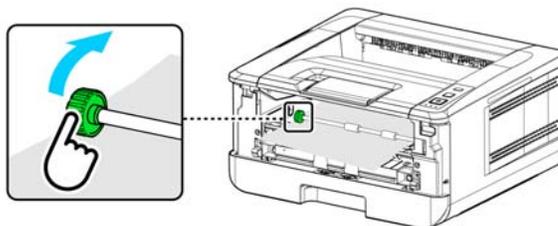
4. Slowly remove the jammed paper.



5. If there is difficulty to pull off the jammed paper, remove the printer cartridge first.

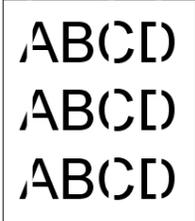


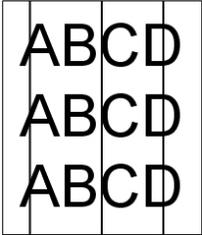
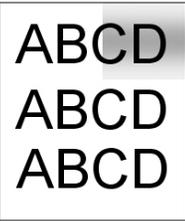
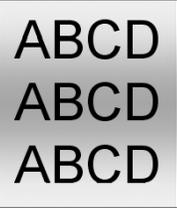
6. Rotate the **Release Wheel** to slowly pull out the jammed paper.

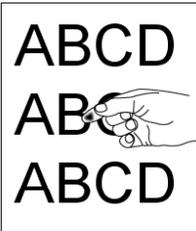


Error Message and Codes		Possible Causes or Solution
System error		
Error (Number).	Restart PRINTER. If this error persists, call service personnel for help.	
300100	Printer API_NVRAM_RW_TEST_FAIL	
300101	Printer API_NVRAM_WRITE_FAIL	
300102	Printer API_NVRAM_READ_FAIL	
300200	Printer Flash Error	
300201	Printer FLASH_BLOCK_ERASE_FAILED	
300202	Printer FLASH_CHIP_ERASE_FAILED	
300203	Printer FLASH_PROGRAM_FAILED	
201610	Printer LPH Error , LPH cable connection fails.	
201650	Printer runtime error.	
201651	Firmware error.	
201701	Printer MB NVRAM : reading error	
201702	Printer MB NVRAM : writing error	
201703	Printer MB NVRAM : reading error while comparing	
201704	Printer MB NVRAM : comparing error	
201711	Printer Drum Unit NVRAM : reading error	
201712	Printer Drum Unit NVRAM : writing error	
201713	Printer Drum Unit NVRAM : reading error	
201714	Printer Drum Unit NVRAM : comparing error	
201721	Printer Toner NVRAM : reading error	
201722	Printer Toner NVRAM : writing error	
201723	Printer Toner NVRAM : reading error while comparing	
201724	Printer Toner NVRAM : comparing error	
201730	Printer uses wrong NVRAM Address.	
302651	Network_INIT_FAIL , network initialization fails.	

Image Problem Troubleshooting

Problem	Image Example	Solution
<p>Paper curls</p>		<ol style="list-style-type: none"> 1. Use paper of standard weight: If you are using thin paper, try to use paper of standard weight (80 g/m²). 2. Use paper with less moisture: Load the paper to the paper tray immediately after removing them from the packaging. Seal the remaining paper with the original packaging to keep from the moisture absorption.
<p>Light print (entire page)</p>		<ol style="list-style-type: none"> 1. Make sure that the toner cartridge is fully installed. 2. Make sure that the Toner Save setting is turned off in the printer driver. 3. Try using a different type of paper. 4. The toner cartridge might be almost empty. Replace the toner cartridge.
<p>Light print (partial page)</p>		<ol style="list-style-type: none"> 1. Make sure that the toner cartridge is fully installed. 2. The toner level might be low. Replace the toner cartridge. 3. The paper might not meet the printer's specifications (for example, the paper is too moist or too rough).
<p>Vertical white lines</p>		<p>Call the service personnel for help.</p>

<p>Vertical black lines</p>		<p>Please clean the EP charger according to the procedure described in this manual (p. 102).</p>
<p>Dirty background (partial page)</p>		<p>Check if toner is not leaked from the toner cartridge. If so, replace the toner cartridge.</p>
<p>Dirty background (entire page)</p>		<ol style="list-style-type: none"> 1. The paper might not meet the printer's specifications (for example, the paper is too thin). 2. Check if there is enough toner in the toner cartridge. If not, please replace toner cartridge. 3. Call the service personnel for help.
<p>Print blank page</p>		<p>Check if there is enough toner in the toner cartridge. If not, please replace the toner cartridge.</p> <p>If this error happens again, call service for help.</p>

<p>Defective image of regular interval</p>		<ol style="list-style-type: none"> 1. Use a clean and soft cloth to wipe the off the dust or particle on the drum unit. (See page 107) 2. If the error occurs again, contact the service personnel.
<p>Loose toner</p>		<ol style="list-style-type: none"> 1. If you have observed a rougher texture on one side of your paper, try printing on the smoother side. 2. The paper might not meet the printer's specifications (for example, the paper surface is not smooth or paper too thick). 3. Media type incorrect. Please choose proper media type for your paper.

TECHNICAL SUPPORT

If your problem still exists after trying the above solution, please contact our technical support.

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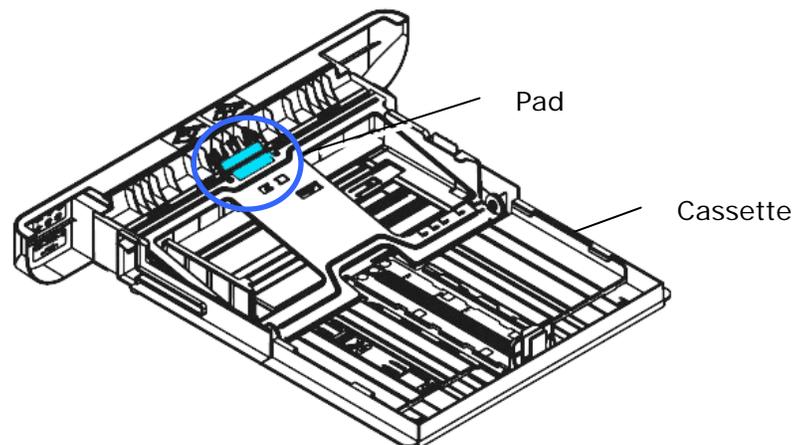
8 Maintaining the Product

Cleaning the Pad in the Cassette

If the Pad in the Cassette is smeared with paper powder or dirt or every 30K copies, paper may not feed smoothly or noise occurs during paper feeding. Follow the procedure below to clean the Pad in the Cassette.

You need to prepare: cotton swab

1. Remove all paper in the cassette.
2. Moisten a cotton swab with isopropyl alcohol (95%).
3. Clean the rubber part of the pad.



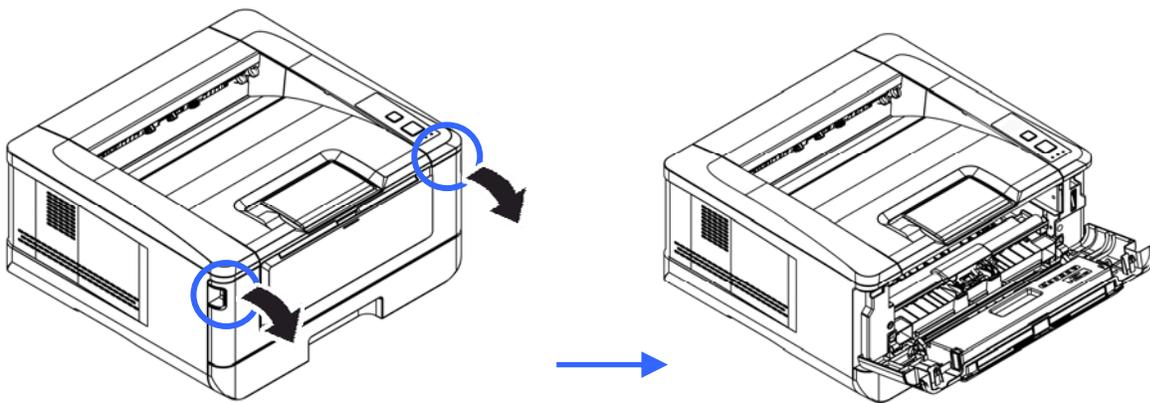
Important:

After cleaning the smeared Pad, dry it completely.

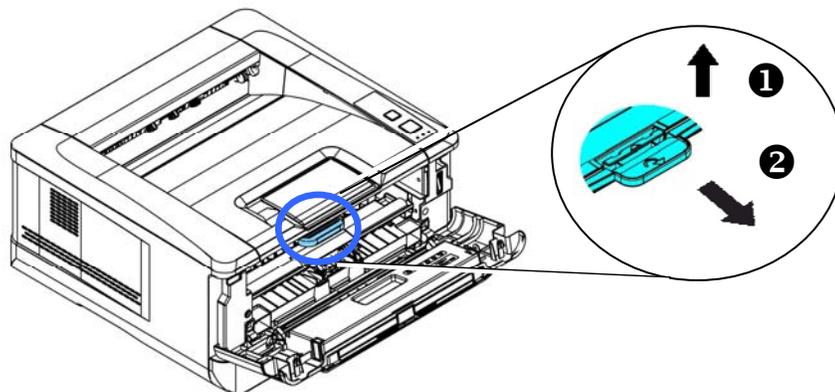
Cleaning the Drum Unit

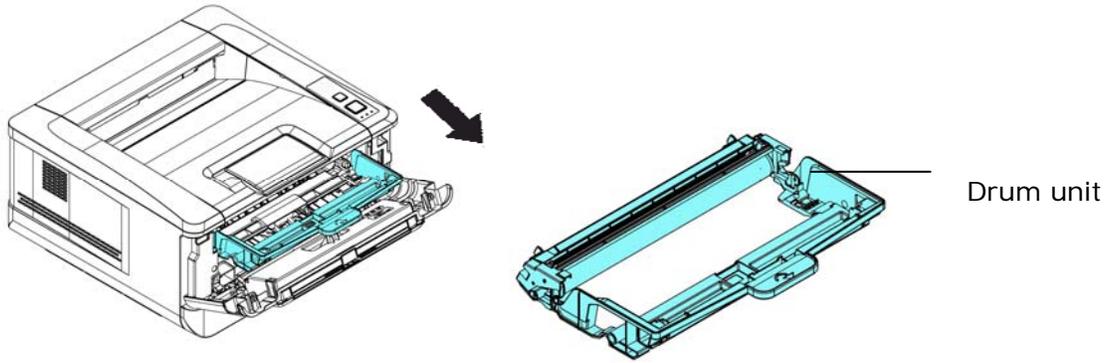
If the drum unit is smeared with paper powder or dirt, the print out may appear defective image of regular interval. Follow the procedure below to clean the drum unit.

1. Turn off the power and remove the power cord from the power outlet.
2. Open the front cover by pulling the handles on both sides as shown.

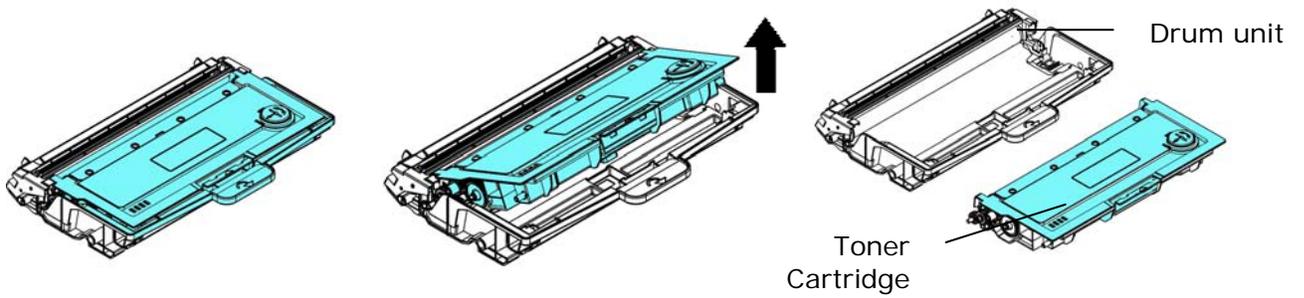


2. Lift the handle of the drum unit and toner cartridge assembly and gently remove the assembly.

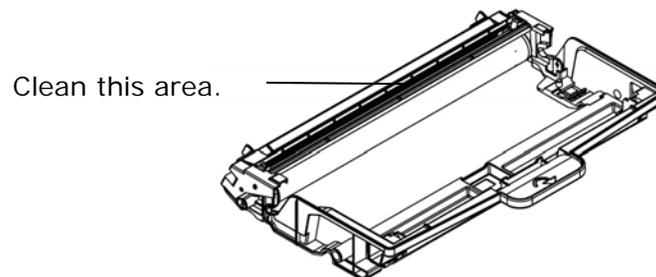




3. Remove the toner cartridge from the drum unit as shown.



4. Clean the drum unit with a clean and soft cloth.



Replacing the Toner Cartridge

The toner cartridge that comes with the product needs to be replaced after printing approximately 3,000 pages. When the toner cartridge is running low, you will be prompted with a **[Toner Low]** message through the printer monitoring program – **[Avision Status Monitor]**. Buy a new toner cartridge and have it ready before you receive **[Replace Toner]** message.



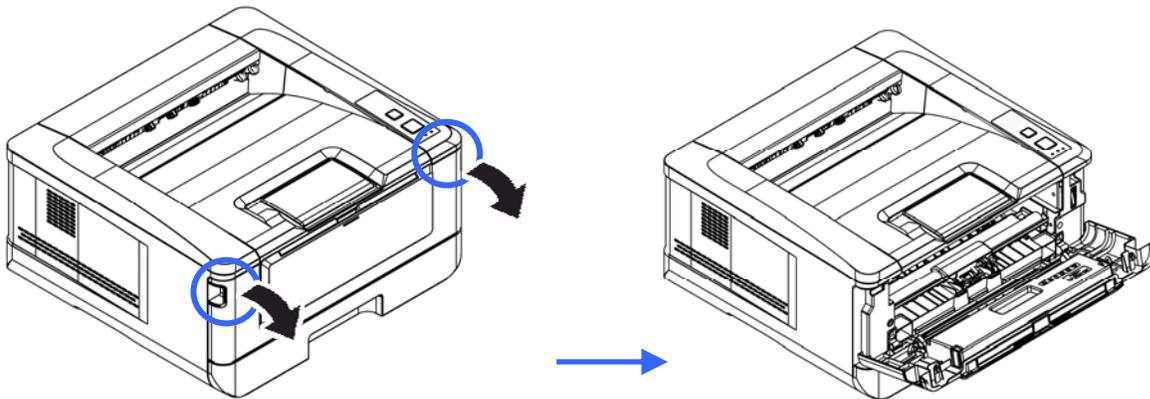
Note:

The drum unit and the toner cartridge are two separate parts.

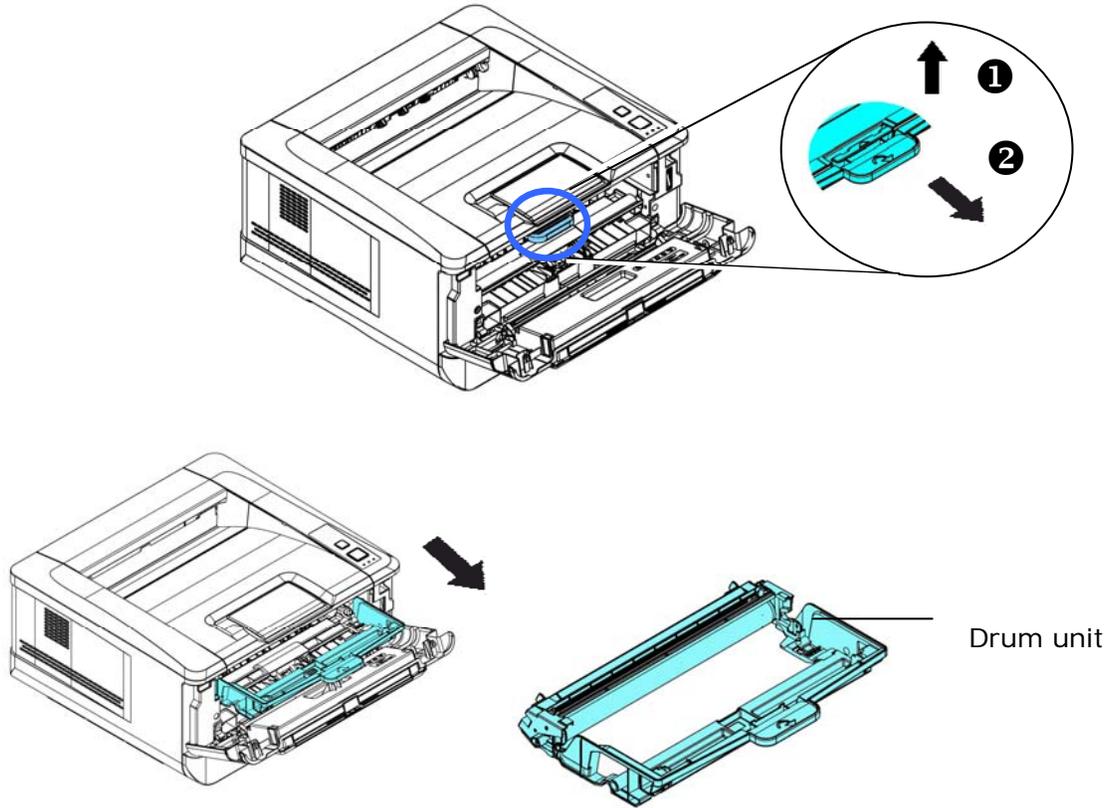
Follow these steps to replace the toner cartridge:

Removing the Toner Cartridge

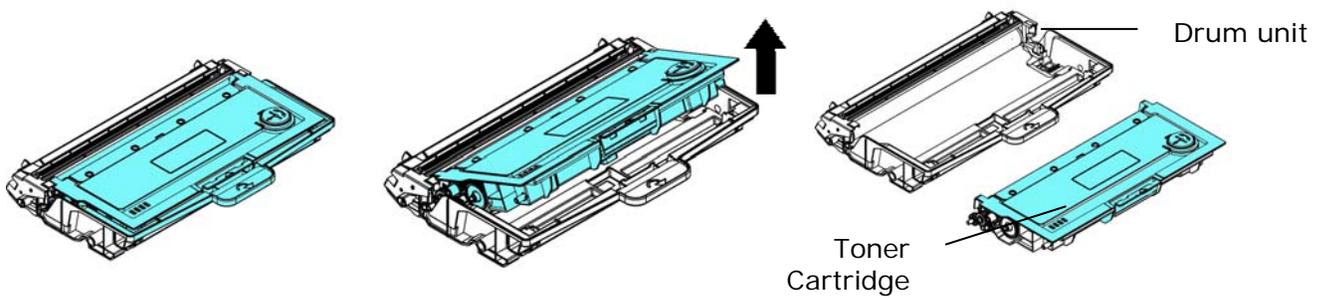
3. Turn off the power and remove the power cord from the power outlet.
4. Open the front cover by pulling the handles on both sides as shown.



2. Lift the handle of the drum unit and toner cartridge assembly and gently remove the assembly.

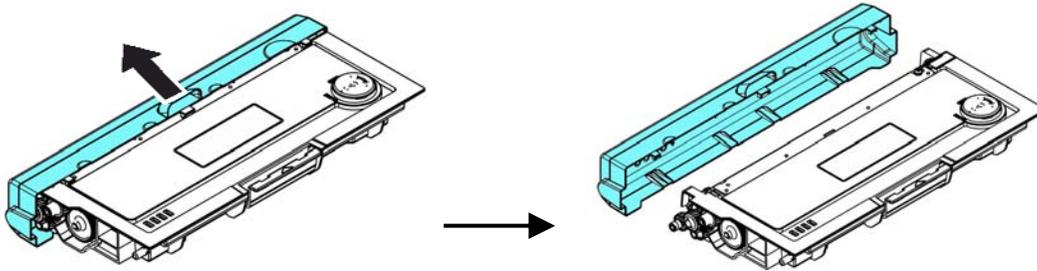


3. Remove the toner cartridge from the drum unit as shown.

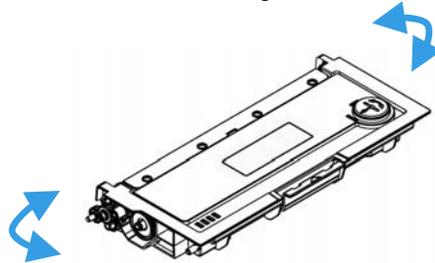


Installing the Toner Cartridge

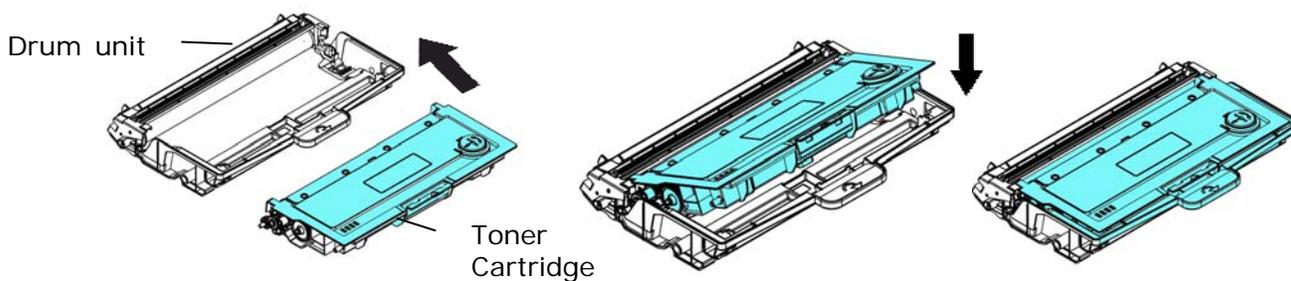
1. Unpack the new toner cartridge.
2. Remove the protective cover.



3. Tilt the new toner cartridge up and down and then right and left 10 times to distribute the toner evenly inside the toner cartridge.



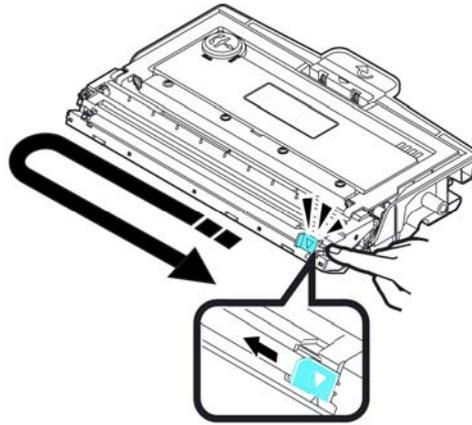
4. Install the new toner cartridge to the drum unit.



Warning!

- Be careful not to inhale toner.
- To avoid print quality problems, DO NOT touch the toner rollers.
- If toner gets on your clothing or other fabric, wipe off the toner with a dry cloth. Wash the items in cold water and air dry.
- To prevent the toner cartridge from damage, do not expose it more than several minutes.

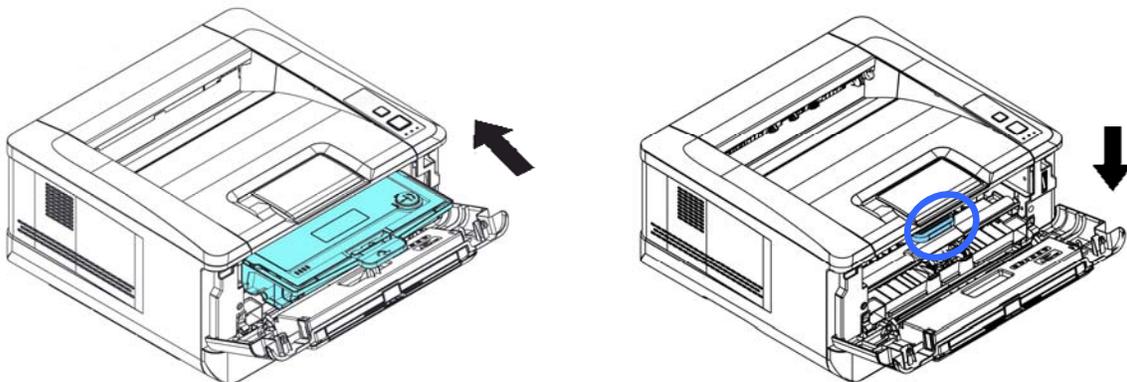
5. Clean the corona wire inside the drum unit by gently sliding the tab from left to right and right to left for several times. (After the toner cartridge has been used for a period of time, some amounts of toner may remain on the corona wire.)



Note:

Be sure to return the tab to the Home position (▲). The arrow on the tab must be aligned with the arrow on the drum unit. If it is not, printed pages may have a vertical stripe.

6. Hold the handle of the toner cartridge assembly and insert the toner cartridge assembly to its original place. Press the handle to fix it firmly in place.



7. Close the front cover.



Note:

Do not dispose of the toner cartridge. Put the used toner cartridge into the bundled plastic bag, and then return it to a dealer or service representative. The latter recycles or deals with the collected toner cartridges in accordance with the relevant regulations.

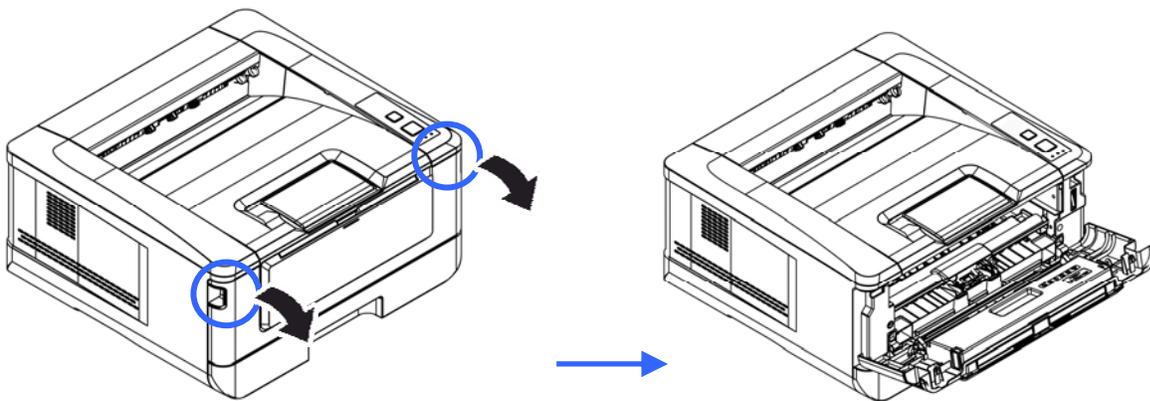
Replacing the Drum Unit

The drum unit that comes with the product needs to be replaced after printing approximately 12,000 pages. When the drum unit is running low, you will be prompted with a **[Drum Unit Low]** message through the printer monitoring program – **[Avision Status Monitor]**. Buy a new toner cartridge and have it ready before you receive **[Replace Drum Unit]** message.

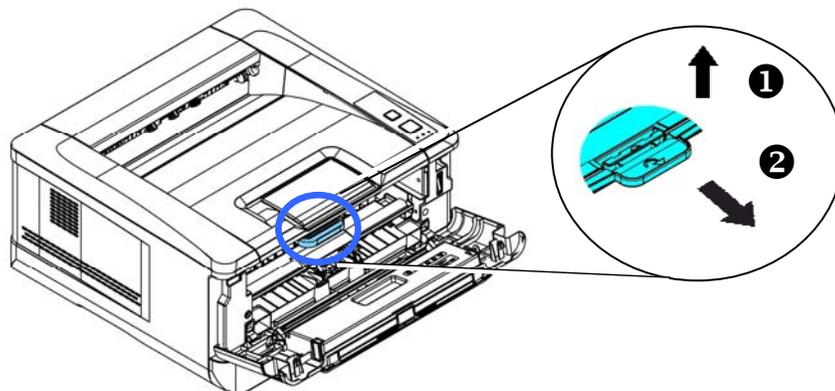
Follow these steps to replace the toner cartridge:

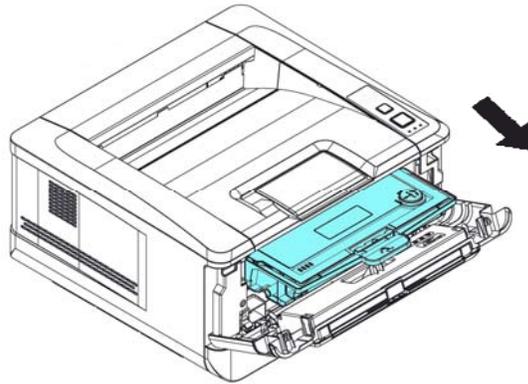
Removing the Drum Unit and the Toner Cartridge Assembly

4. Turn off the power and remove the power cord from the power outlet.
5. Open the front cover by pulling the handles on both sides as shown.

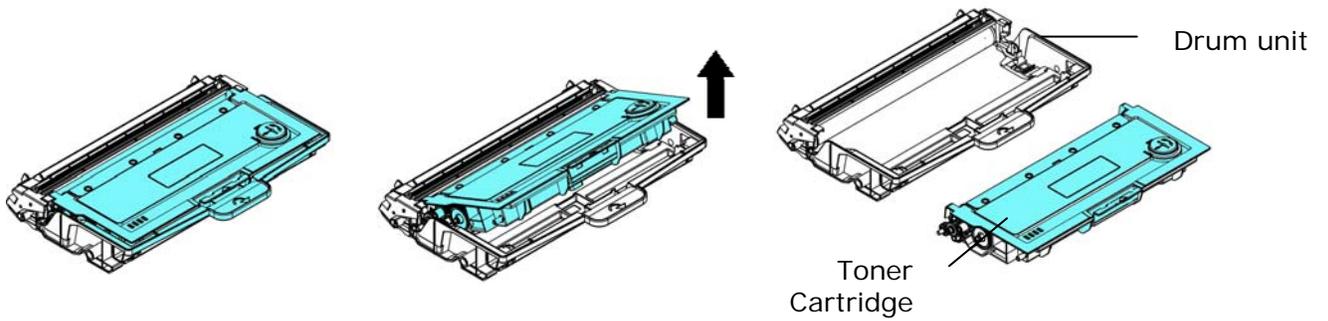


3. Lift the handle of the drum and the toner cartridge assembly and gently remove the assembly.



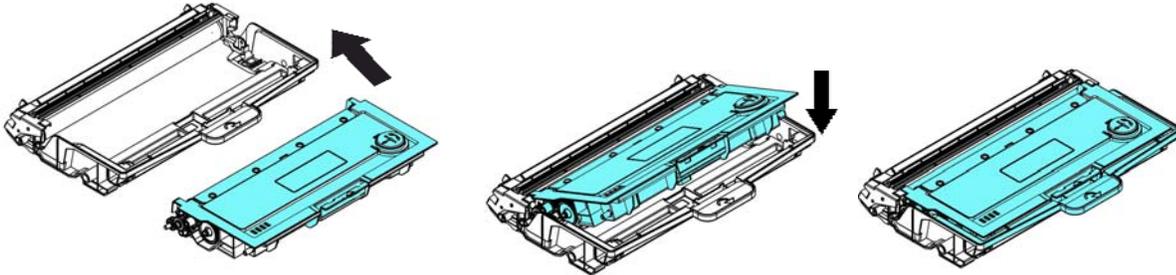


4. Remove the toner cartridge from the drum unit as shown.

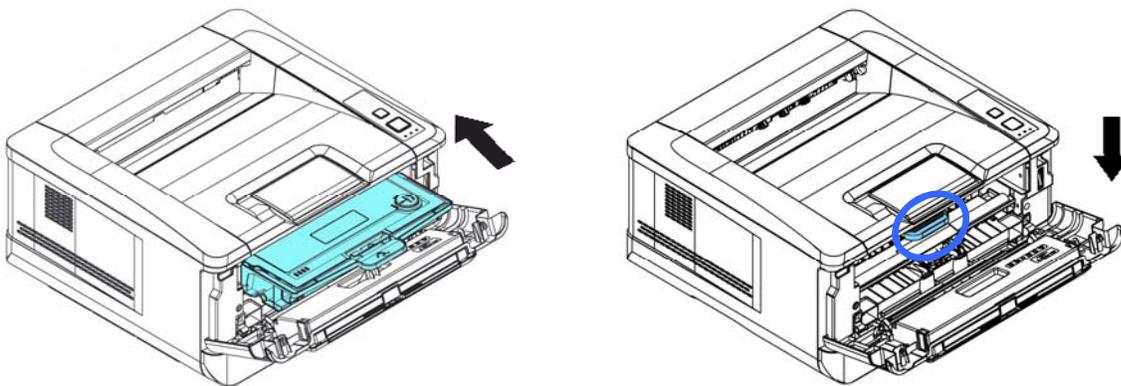


Installing the Drum Unit

1. Install the toner cartridge to the new drum unit.



2. Hold the handle of the toner cartridge and insert the toner cartridge to its original place. Press the handle to fix it firmly in place.



Note:

- If toner gets on your clothing or other fabric, wipe off the toner with a dry cloth. Wash the items in cold water and air dry.
- Do not dispose of the toner cartridge. Put the used toner cartridge into the bundled plastic bag, and then return it to a dealer or service representative. The latter recycles or deals with the collected toner cartridges in accordance with the relevant regulations.

4. Close the front cover.

9 Specifications

All specifications are subject to change without notice.

General		
Regulatory model number	AP30xyzzz(x=0~9,A~Z; y=1/2; zzz=A/D/blank, P/blank, F/blank)	
Processor	300MHz ARM9MP (build in SOC)	
Memory	128M DDR2 SDRAM	
Max media size	Legal size	
Resolution	600 × 600 dpi	
Printing speed	30 ppm	
First print out time	< 11 seconds (A4 SEF, standard tray)	
Warmup Time	< 25 seconds	
Recommended monthly print volume	1,500 pages	
Maximum monthly print duty cycle	15,000 pages	
Manual tray	Paper capacity	10 pages (70 g/m ² plain paper)
	Paper size	A4, A5, A6, B5, B6, Letter, Legal customized size: 76.4 x 135 ~ 216 x 356 mm
	Paper weight	60~163 g/m ² (16~43 lbs)
Tray 1	Paper capacity	250 pages (70 g/m ² plain paper)
	Paper size	A4, A5, A6, B5, B6, Letter, Legal customized size: 76.4 x 135 ~ 216 x 356 mm
	Paper weight	60~105 g/m ² (16~28 lbs)
Paper output	Top output	

Paper output capacity		150 pages
Duplex printing unit		Build-in
Duplex print	Paper size	A4, Letter, B5
	Paper weight	60~105 g/m ² (16~28 lbs)
Connectivity		USB2.0 , 10/100Mbps Ethernet
Printer language		GDI
Supported operation system		Windows XP, Windows 7, Windows 8, Windows 10
Dimemision (WxDxH)		404 x 380 x 205 mm (15.9 x 14.9 x 8 in.)
Weight		8.5 kg (18.73 lb.)
Power source		100~120Vac, 60Hz, 12A Or 220~240Vac, 50/60Hz, 6.5A
Power consumption		< 1.5kw
Operation Environment	Temperature	10°C~32°C
	Humidity	15%~80% (no dew)
Product Lifecycle		
Printer life		5 year or 60,000 pages
Toner Cartridge		3,000 pages (ISO19752)
Drum Unit		12,000 pages
Fuser		60,000 pages

Wi-Fi Spec.

Model: GWF-7A05

Standard	IEEE 802.11 b/g/n standards compliant	
Wireless LAN	1T1R Mode	
Frequency Range	2.412 ~ 2.483GHz (subject to local regulations)	
Number of Selectable Channels	802.11n: 20MHz/40MHz	
	802.11b/g:	13 channels
Data Rate	802.11n: up to 150Mbps	
	802.11b: DSSS 11Mbps	
	802.11g: OFDM 54Mbps	
Transmit Power(EIRP)	802.11b: 18dBm +/-1dB	
	802.11g: 15dBm +/-1dB	
	802.11n: 14dBm +/-1dB	
Security	64/128-Bit WEP Key, WPA(TKIP with IEEE802.1x), WPA2(AES with 802.1x), AES	