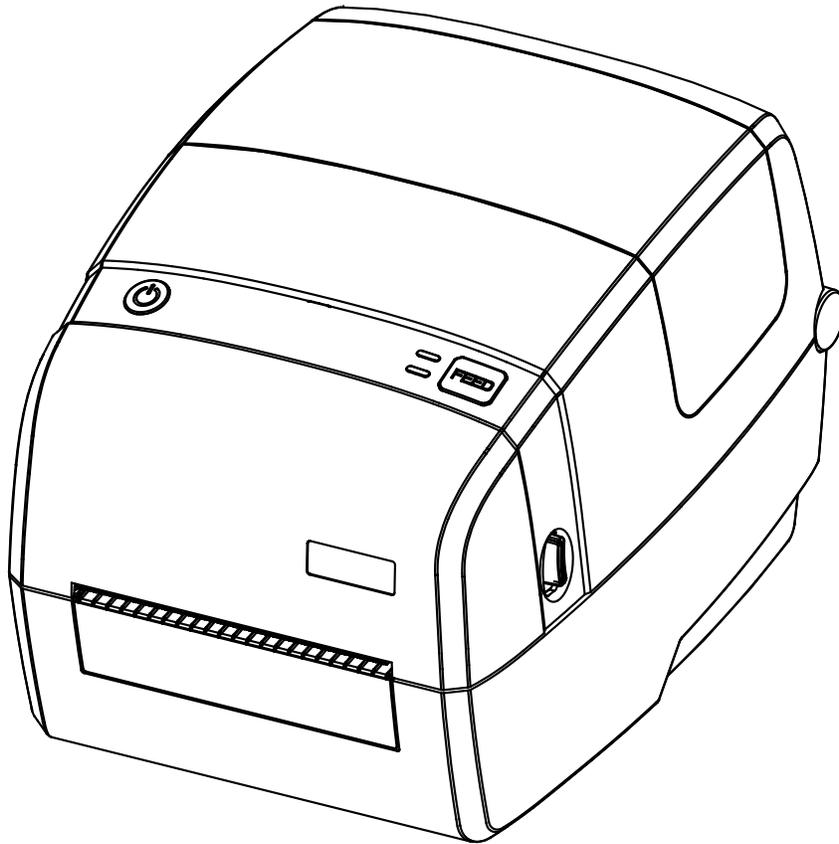




Desktop Label Printer

User Guide

BCL100 / BCL110



In order to operate the label printer, please go to bcinternational.com/pages/drivers to download the printer driver.

Desktop Label Printer

User Guide BCL100 / BCL110

Thank you for purchasing the BCL100/BCL110 Series Desktop Label Printer. This User Guide is intended to provide you with guidelines to ensure that operation of this product is safe and does not pose risk to the user. Any use that does not conform to the guidelines described in this User Guide may void the limited warranty.

Please read all directions before using the product and retain this guide for reference.

This product is covered by a limited two-year warranty. Coverage is subject to limits and exclusions. See warranty for details.

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Safety Precautions

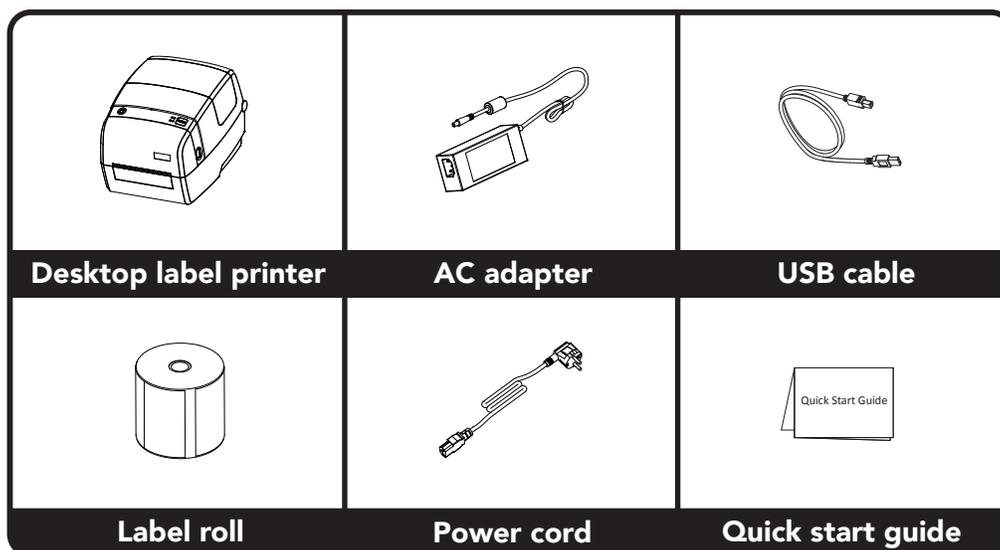
Before using this printer, please carefully read and understand all safety precautions. Failure to follow these guidelines can result in damage to the printer and/or serious injury to the user. Retain this user guide for future reference to ensure safe use.

- The printhead will become very hot during printing; avoid contact with the printhead after printing has finished.
- Do not touch the printhead and connector. Static electricity can damage the printhead.
- Do not plug several products in one multioutlet. Overloading an outlet can lead to overheating and pose a fire risk.
- If the plug is wet or dirty, dry or wipe it before use.
- Use the supplied adapter ONLY. It is dangerous to use other adapters.
- Do not pull the cable to unplug. This can lead to cable damage, which poses a fire risk.
- Do not plug in or unplug the printer with wet hands as it can lead to electrocution.
- Do not bend the cable or leave it under heavy objects.
- If you notice strange smoke, odor, or noise from the printer, unplug and power off the printer immediately. Then, contact customer service for support.

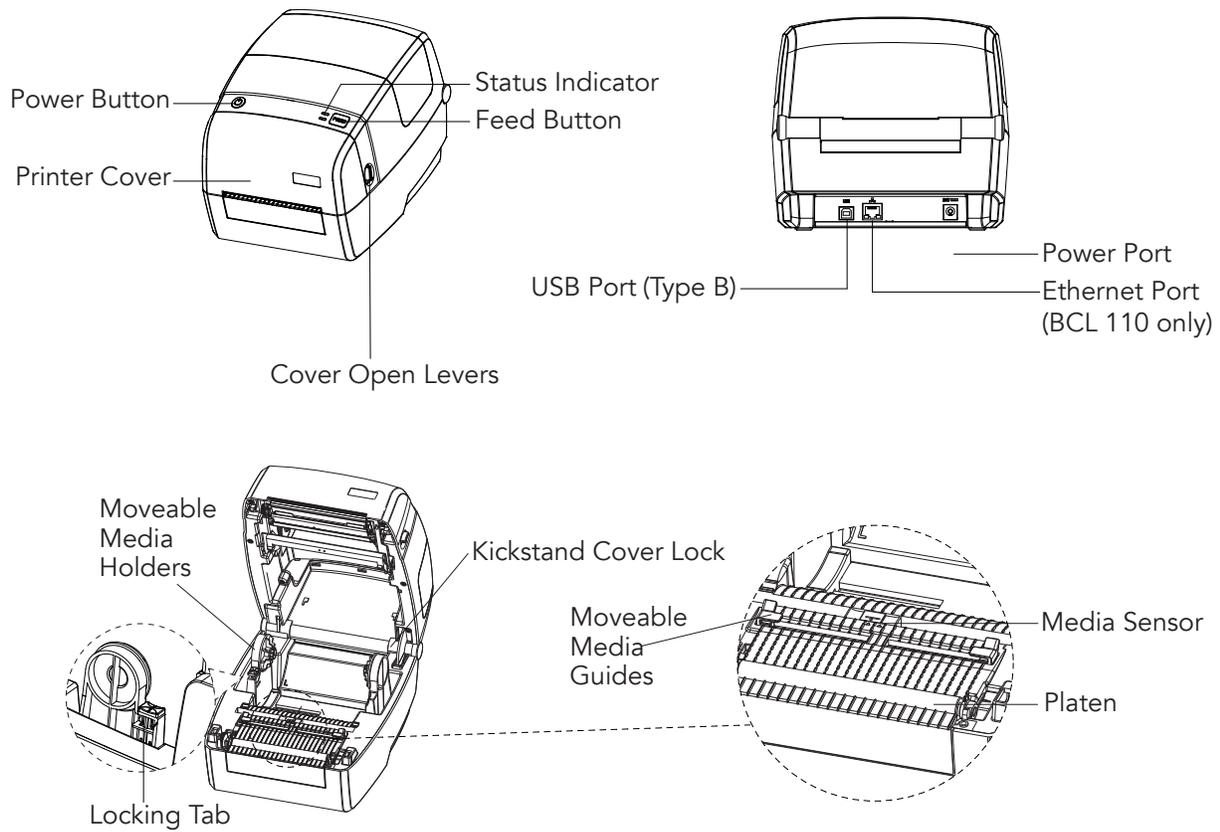
- Install the printer on the stable surface. The printer can break and cause injury if it falls.
- Use only approved accessories to ensure safe use.
- Do not try to disassemble, repair, or remodel the printer by yourself. Doing so can result in serious injury and/or voiding the warranty.
- Do not touch the blade of the auto cutter.
- Do not let water or other foreign objects drop into the printer. If this happens, switch off and unplug the printer before contacting customer service.
- Do not use the printer when it is out of order. This can cause a fire or electrocution.
- Leave enough space around the printer for operation and maintenance.
- Keep all liquids away from the printer.
- Do not expose the printer to high temperatures, direct sunlight, or dust.
- Ensure the printer is connected to a socket with the correct voltage.
- If not in use for an extended period, power off the printer.
- Power off the printer when connecting and disconnecting all ports to prevent damage to the control circuit.

Chapter 1 Introduction

1.1 Package Contents



1.2 Product Overview



Chapter 2 Installation & Usage

2.1 Power Connection

1. Connect the AC adapter to the corresponding port on the printer.
2. Connect the power cord to the AC adapter.
3. Plug the power cord into an appropriate outlet.

2.2 Media Loading

For additional help, [watch this video](#).

1. Push the cover open levers to lift the cover.
2. Pull the media holders open and insert the media roll.
3. Press down the locking tab to secure the media in place.
4. Pass the media through the media guides and adjust to match the media's width.
5. Press the kickstand cover lock and press down the cover until it snaps closed.

2.3 Interface Cable Connection

The printer interface is compatible with the following cables:

- USB A-Type cable
- USB B-Type cable
- RJ45 cable (BCL 110 only)

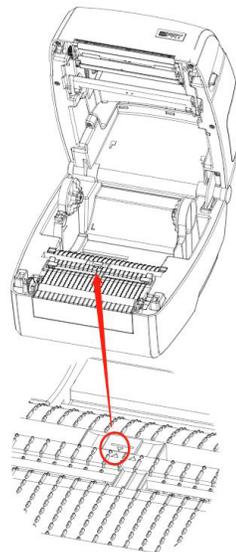
Connect either a USB A-Type or B-Type cable directly into the USB port on the back of the printer. For the BCL 110 printer, connect an RJ45 cable into the ethernet port.

2.4 Detection

For proper printing, the movable sensor must be in the correct place. Moving the sensor improperly may cause the printer to not detect the media roll meaning you will not be able to print. Follow the instructions below to ensure the sensor stays in the right spot for your media type.

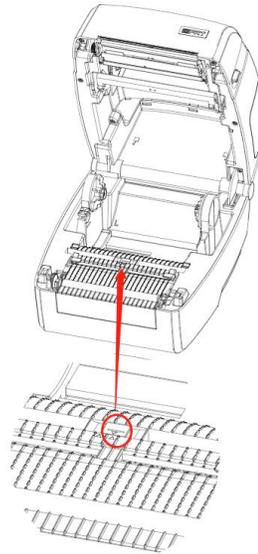
2.4.1 Continuous Paper and Labels

When printing on continuous paper or labels, the sensor must be aimed at the left triangle below. This is the original position.



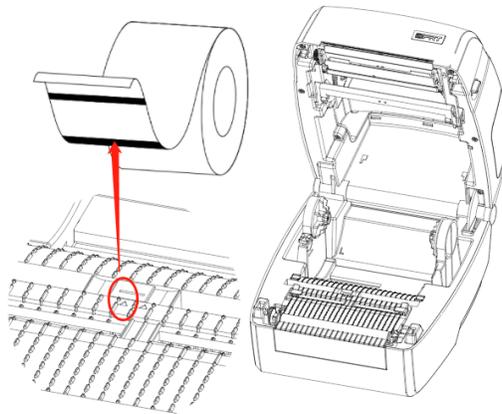
2.4.2 Punched Hole Labels

When printing on punched hole labels, adjust the sensor so that it is aimed at the right triangle below.



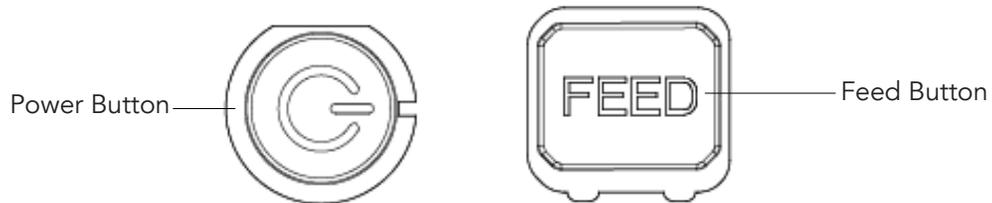
2.4.3 Blackmark Paper

When printing on blackmark paper, adjust the sensor so that it is aimed at the position of the black mark.



2.5 Operation Panel

2.5.1 Panel Buttons



2.5.2 Status Indicator Lights

Power Light

Color	Action	Status Indicated
Light off	Light off	Printer is off
Green	On	Normal operation
Green	Slow flash	Dump mode

Status Light

Color	Action	Status Indicated
Light off	Light off	Printer is off/standby/printing
Red	On	Head up/out of media
Red	Quick Flash	Media jam/label separation
Orange	On	Out of media
Orange	Slow Flash	Printing pause
Green	On	Label calibration
Green	Slow Flash	Wait on demand
Green	Quick Flash	Receiving data

Paper Container Light

Action	Status Indicated
On	Out of media/media jam/label separation
Off	Head up/error elimination

2.6 Basic Functions

2.6.1 Power on/off

1. To power on the printer, press the power button once.
2. To power off the printer, hold the power button for three (3) seconds. The printer will ring twice before powering off.

2.6.2 Calibration

When to calibrate the printer:

- Initial use after installation.
- Initial use after sensor cleaning.
- After an extended period of printer inactivity.
- After changing media type.
- After major changes in the operating environment.
- If printer is not recognizing current media type properly.

Manual Calibration Method:

When the printer is ready, press the feed button for three (3) seconds until the status indicator light flashes green twice. After the second flash, release the button and the printer will begin calibration. Once calibration is complete, open the printer cover and roll the media back to avoid waste.

Note: There is no need to calibrate the printer when it is operated in Continuous Media Mode.

For instructions on how to calibrate using the printer utility tool, please refer to "Chapter 5 Printer Utility Tool Instructions".

2.6.3 FEED button

1. When the printer is ready, press the feed button to feed one label through the printer. When in "Continuous Mode", the printer will feed a fixed distance of media.
2. During printing, press the feed button once to stop the current printing job.
3. When the printer is paused, press the feed button once to continue the printing job.
4. To cancel a print job, hold the feed button for three seconds while a print job is paused.
5. In dump mode, press the feed button once to return to normal printing mode.
6. When the printer is in wait on demand mode (indicated by a slow, green flash), press the feed button once to print a label.

2.6.4 Print Self-Test Page

Print self-test pages to check the printer's current settings and status. A self-test page will indicate any problems with the printer.

Printing Manually

1. Make sure media roll is properly loaded.
2. With the cover securely closed, power on the printer.
3. When the printer is ready, press the feed button continuously until the indicator light flashes green once. After the flash, release the button and the printer will print the self-test page.

Note: Self-test pages can also be printed using the Windows Driver program.

For more detailed instructions, refer to "Chapter 6 Windows Driver Instructions".

Chapter 3 Driver Installation

A printer driver is the software that takes a print command and translates it so that your printer can receive it. Without a printer driver, your computer will not be able to communicate with your printer. You can download the BCL driver (or a different driver) at bclinternational.com/pages/drivers.

3.1 Software Compatibility

This printer is compatible and has been tested with many of the most popular shipping platforms. Below is a list of some of the platforms this printer can integrate with.

This list is not an exhaustive list. Unless otherwise noted, the standard BCL driver can integrate with the application softwares listed below. For help integrating with the applications listed below, visit <https://bclinternational.com/pages/faq>.

- UPS WorldShip
- FedEx.com
- Stamps.com
- Endicia.com
- UPS.com (ZP500 driver required)
- FedEx Ship Manager desktop application (ZP500 driver required)
- Stamps.com desktop application (ZP500 driver required)
- Endicia DAZzle (ZP500 driver required)
- ShipStation with ShipStation Connect
- ShippingEasy with Connect Easy
- Shippo
- PayPal
- Etsy
- Pitney Bowes
- Amazon Seller Central
- Amazon FBA on-site (with 300 dpi printing only)

3.2 BCL Windows Driver Installation

To install the standard BCL driver, first visit bclinternational.com/pages/drivers and download the appropriate BCL driver. Once the driver is downloaded on your computer, complete the following steps to install.

1. Plug a USB cable into the printer.
2. Plug the other end of the USB cable into your computer and power on the printer.
3. Double click on the driver to begin installation.
4. Read and agree to the licensing agreement, and then click "Next".
5. The driver will automatically detect and set up your printer. After installation, click "Finish". Your printer should now display in the "Devices and Printers" menu.

Note: This driver can also be installed via Ethernet cable. For help setting up via Ethernet for the BCL 110, refer to "Chapter 9 Ethernet Connection and Settings".

3.3 ZP500 Driver Installation

The BCL printer driver will work for most printing situations for Windows operating systems. There are, however, a few platforms where the BCL driver is not compatible. The Zebra ZP500 driver is required to use the following shipping platforms:

- Endicia DAZzle
- UPS.com
- FedEx Ship Manager desktop application
- Stamps.com desktop application

To install the Zebra (ZP500) driver, download the driver at <https://bclinternational.com/pages/drivers>.

1. Plug a USB cable into the printer.
2. Plug the other end of the USB cable into your computer and power on the printer.
3. Double click on the Zebra installation package and choose "Install Zebra Printer".
4. Select "Zebra ZP500(ZPL)".
5. Choose the correct port (USB or Ethernet IP Address for BCL 110 only), click "Next", then click "Finish".
6. After installation, click "Finish". Your printer should now display in the "Devices and Printers" menu.

Note: This driver can also be installed via Ethernet cable. For help setting up via Ethernet for the BCL 110, refer to "Chapter 9 Ethernet Connection and Settings".

3.4 BCL Mac Driver Installation

For use with macOS operating systems, you will need to use the BCL Mac driver. Visit <https://bclinternational.com/pages/drivers> and download the appropriate driver. Once the driver is downloaded on your computer, complete the following steps to install.

1. Plug a USB cable into the printer.
2. Plug the other end of the USB cable into your computer and power on the printer.
3. Double click the driver to begin installation and click "Continue".
4. Select a destination to install the software and click "Continue".
5. Choose your installation type, click "Continue", then click "Install".
6. Type in your computer password, then click "Install Software".
7. After the installation indicates it was successful, click "Close". The printer will now display in the "Printers & Scanners" menu.

Note: This driver can also be installed via Ethernet cable. For help setting up via Ethernet for the BCL 110, refer to "Chapter 9 Ethernet Connection and Settings".

3.5 Seagull Windows Driver Installation

For optimal use with BarTender software on Windows operating systems, the Seagull Windows driver is recommended.

The Seagull Windows Driver supports the following operating systems:

- Windows Vista, Windows 7, Windows 8 and 8.1, and Windows 10.
- Windows Server 2008, 2008 R2, 2012, 2012 R2, and 2016.
- 32-bit and 64-bit (x64) editions.

Visit <https://bclinternational.com/pages/drivers> to download the Seagull Windows Driver application.

Note: The screens used below may vary slightly depending on your printer model and operating system. Install drivers based on the steps provided below. Turning off your security software before installation is also recommended.

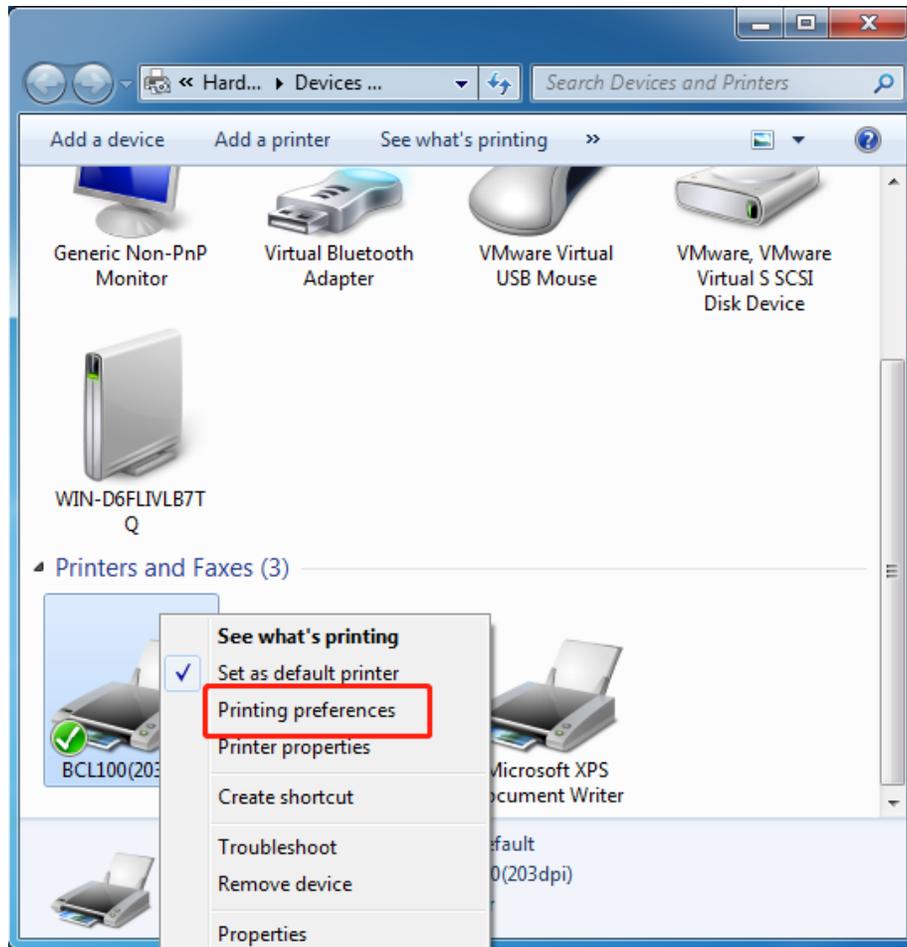
1. Connect your printer to your computer and power it on.
2. Double click the Seagull Windows Driver. Read and agree to the licensing agreement. Then click "Next".
3. Choose the installation directory, then click "Next".
4. After installation, click "Finish". If the printer is connected to your PC, the driver will install automatically.
5. If the driver did not install automatically, select "Install printer drivers", then click "Next".
6. Select the printer model, then click "Next".
7. Enter a name for your printer, then click "Next". After, click "Finish", then "Close" once the driver is installed.
8. Once installation is complete, click "Finish". The icon will now be found in "Devices and Printers" from the "Start" menu.

Note: If you have previously installed the driver, the USB port will connect automatically when the printer is connected to your computer. For support with driver problems, please visit bclinternational.com.

Chapter 4 Windows Driver Usage Instructions

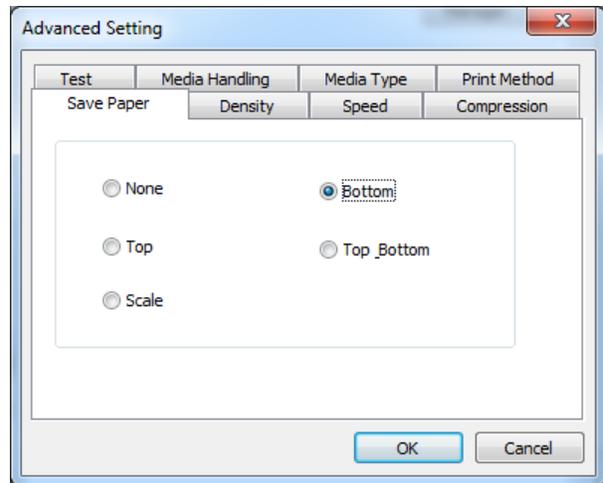
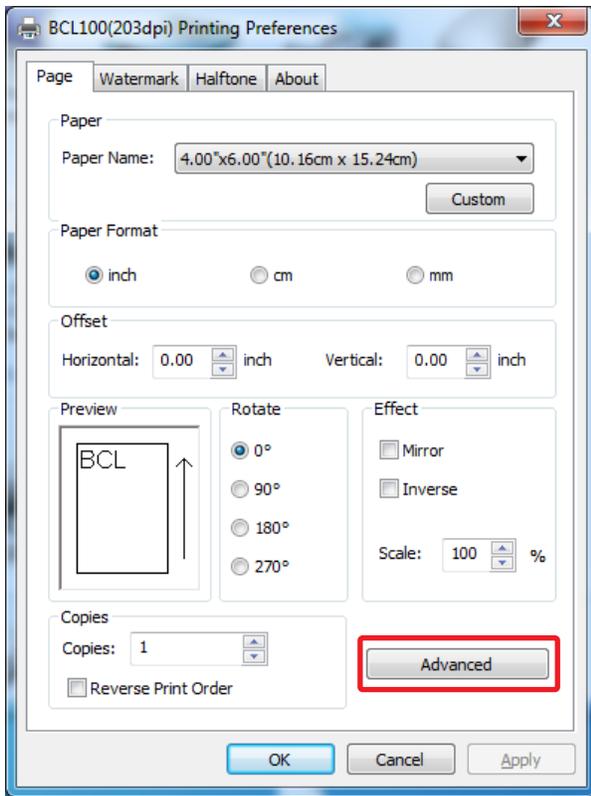
4.1 Printing Preferences

To view printer preferences, click "Start", then "Devices and Printers". Right click the printer icon and select "Printing preferences".

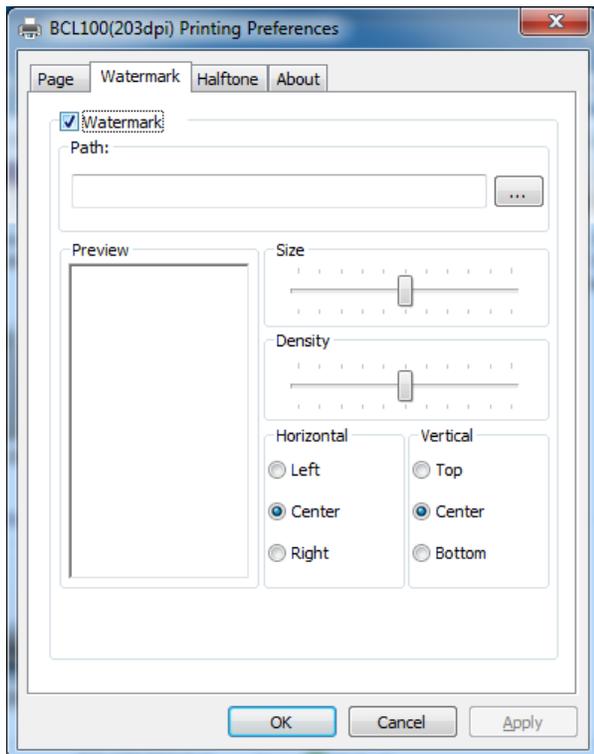


From the main menu, select "Paper Name" to change the paper type, "Custom" to add a new paper type, and add rotation or effects to prints.

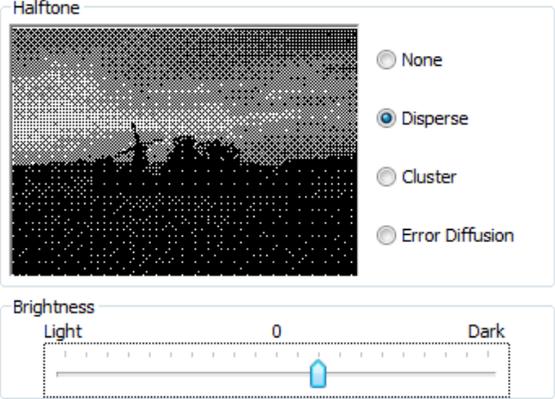
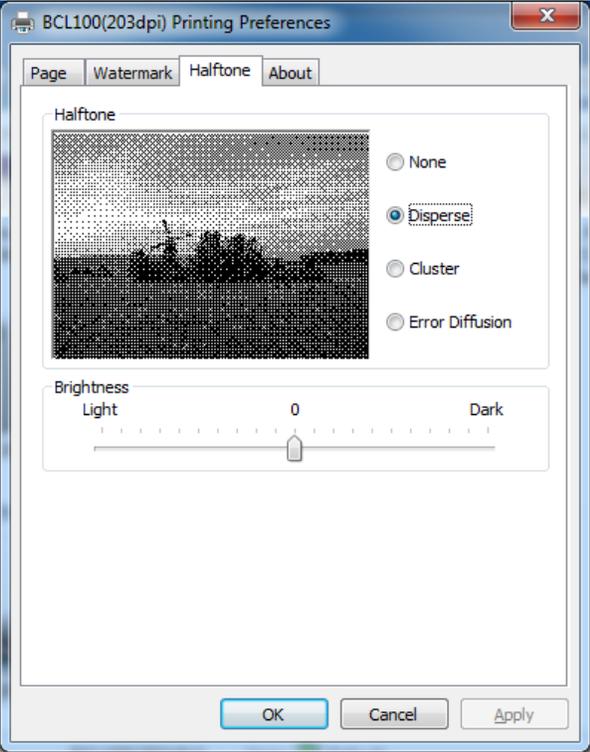
Click "Advanced" to view "Test", "Media Handling", "Media Type", "Print Method", "Save Paper", "Density", "Speed", and "Compression" settings.



To add a watermark, select the tab titled “Watermark” and add your image. A BMP file is recommended.

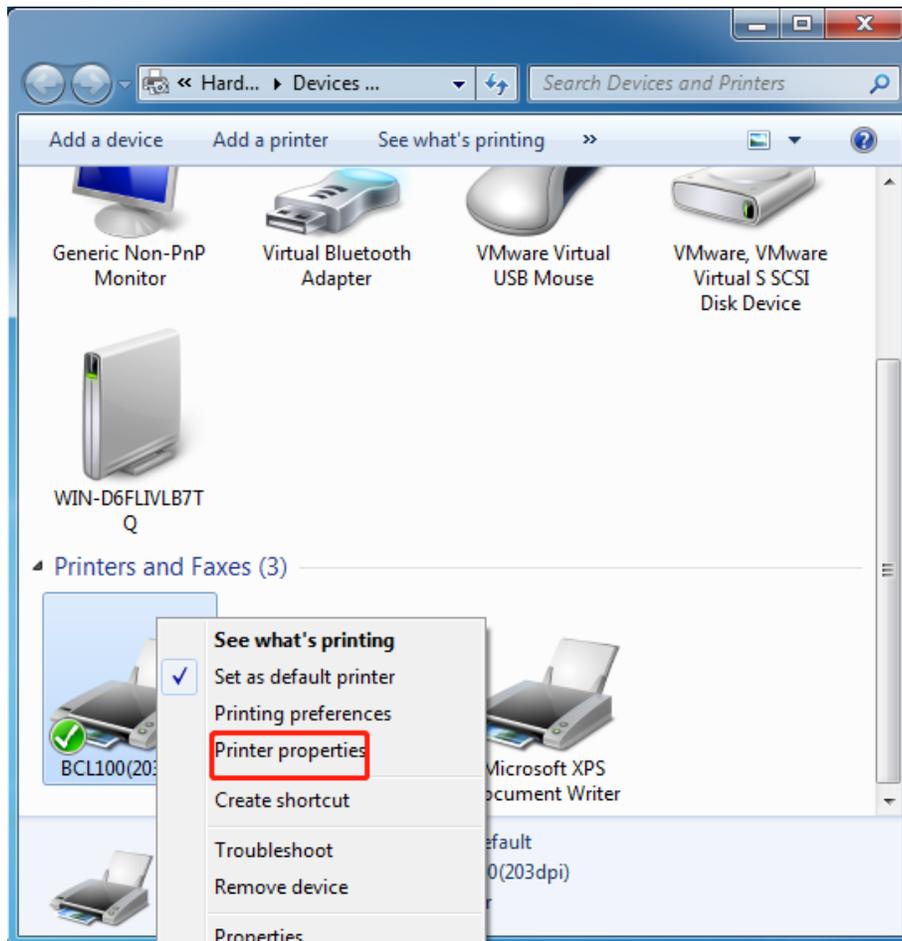


To change the tone of a print, use the tab titled "Halftone".

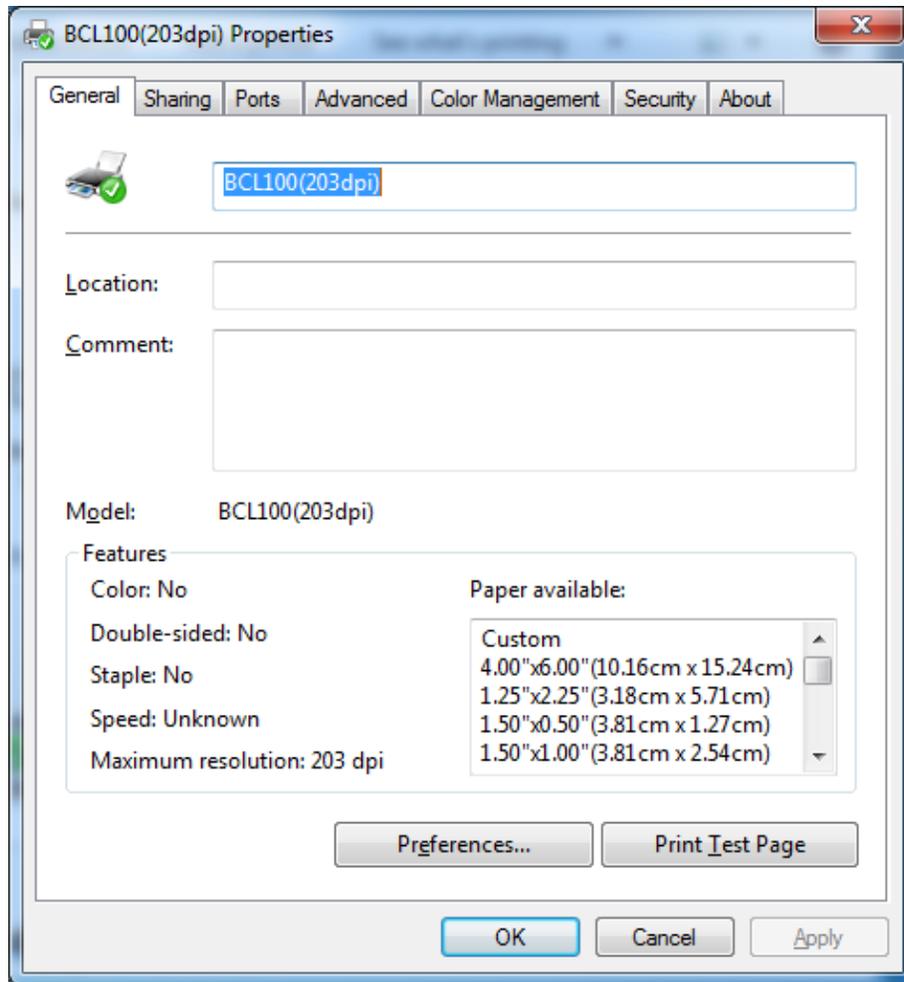


4.2 Printing Properties

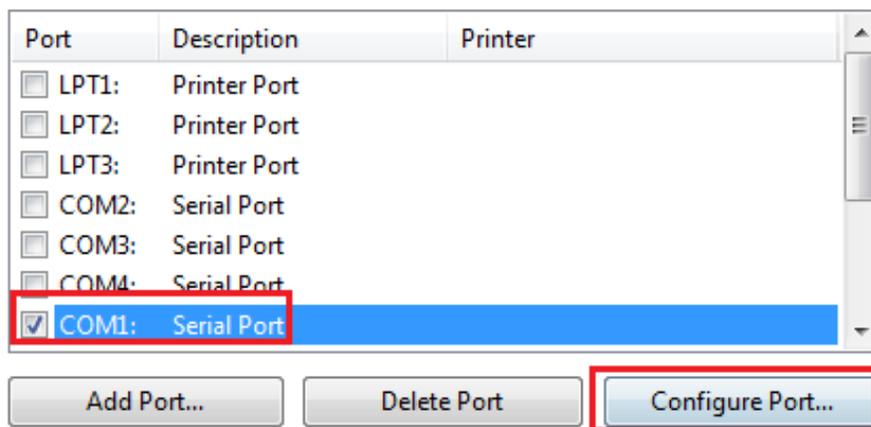
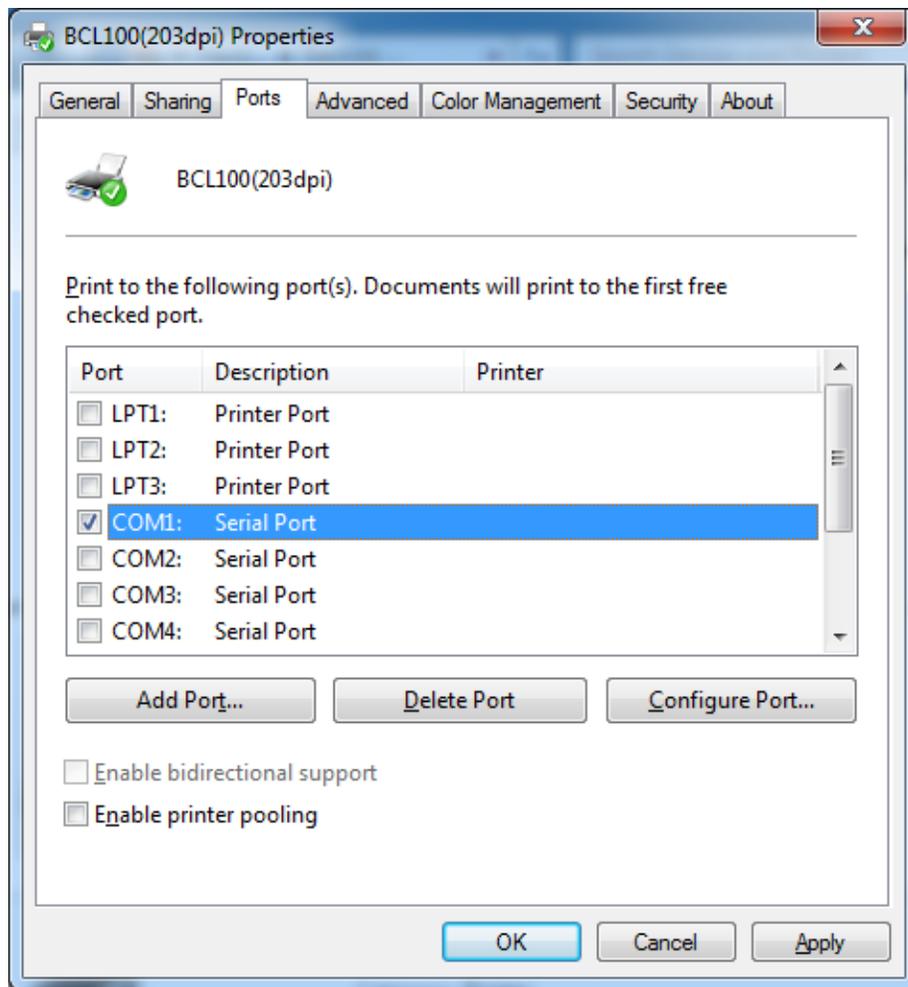
To view printer properties, click "Start", then "Devices and Printers". Right click the printer icon and select "Printing properties".



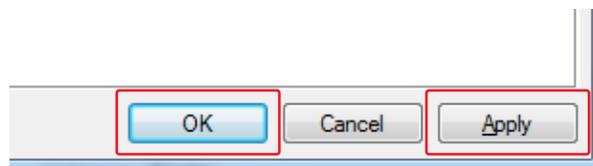
Click "General", then "Print Test Page" to print a label with the current settings.



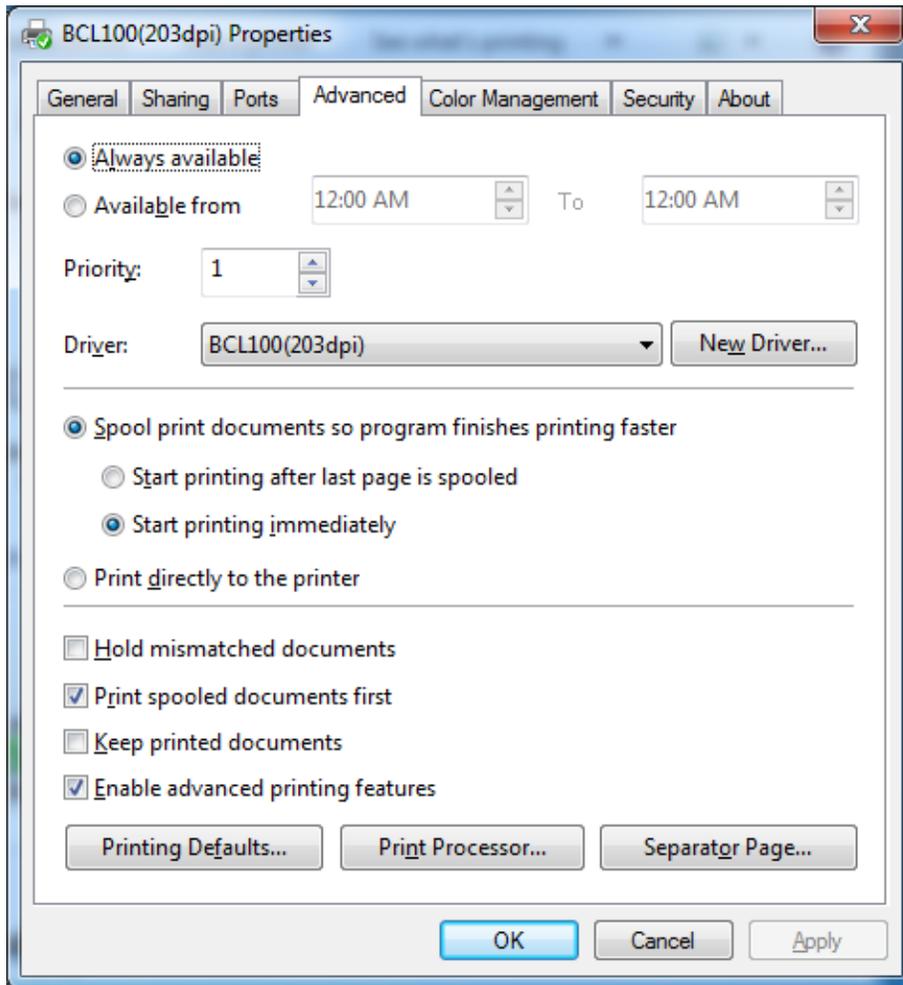
Click "Ports" and choose the ports you need. After selecting, click "Configure Port" to view the bits per second, data bits, parity, stop bits, and flow control.



After making changes, click "OK", then "Apply" to configure the new port.



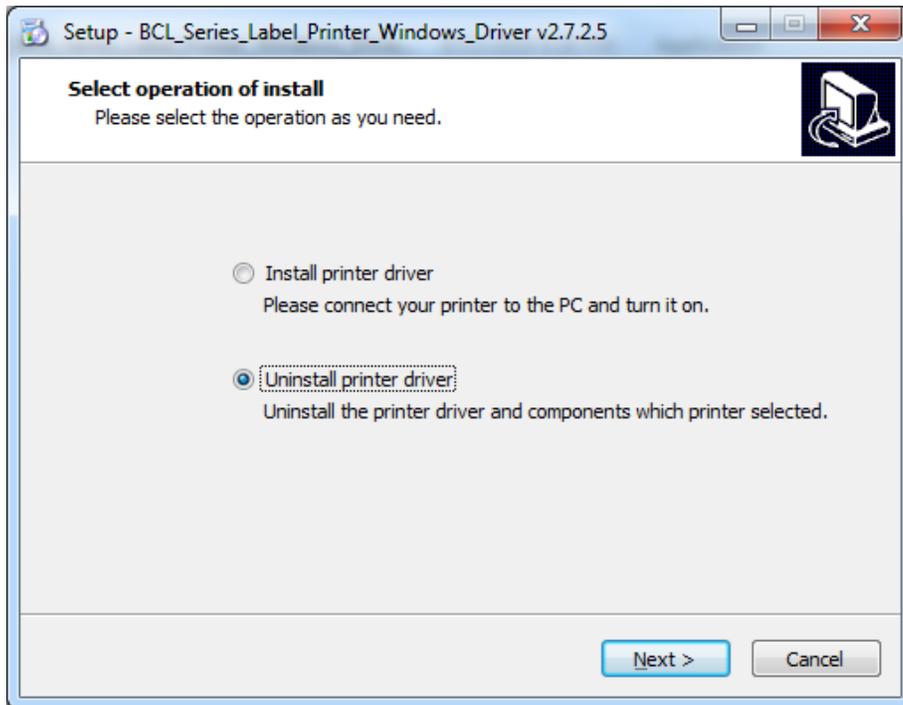
Click "Advanced" to view the options shown below.



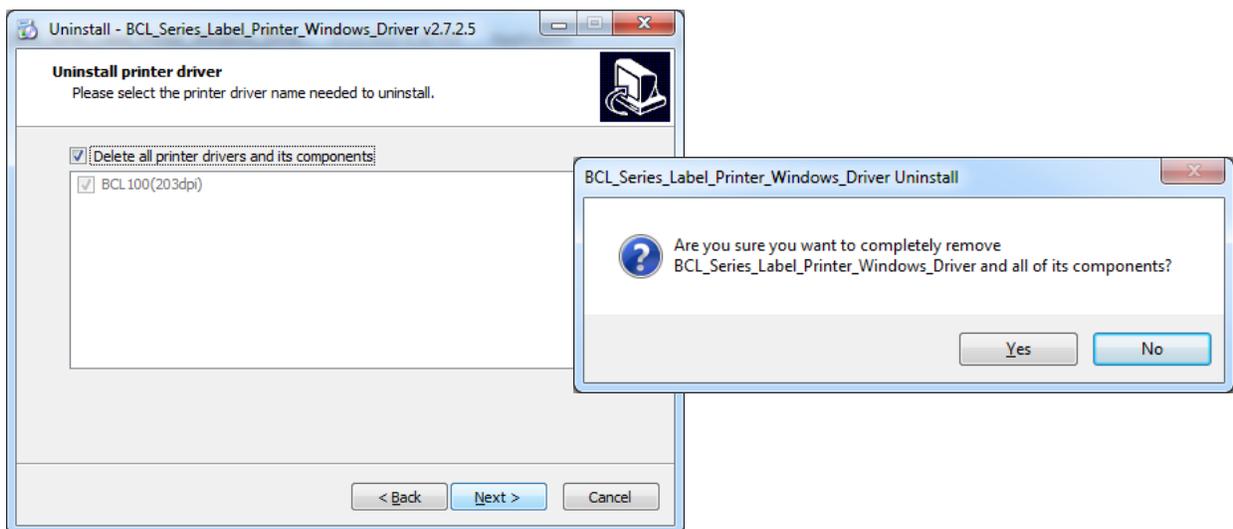
4.3 Driver Removal

Note: Turn off the printer or unplug the USB cable before removing the driver.

Double click the Windows Driver. Choose "Uninstall printer driver", then click "Next".



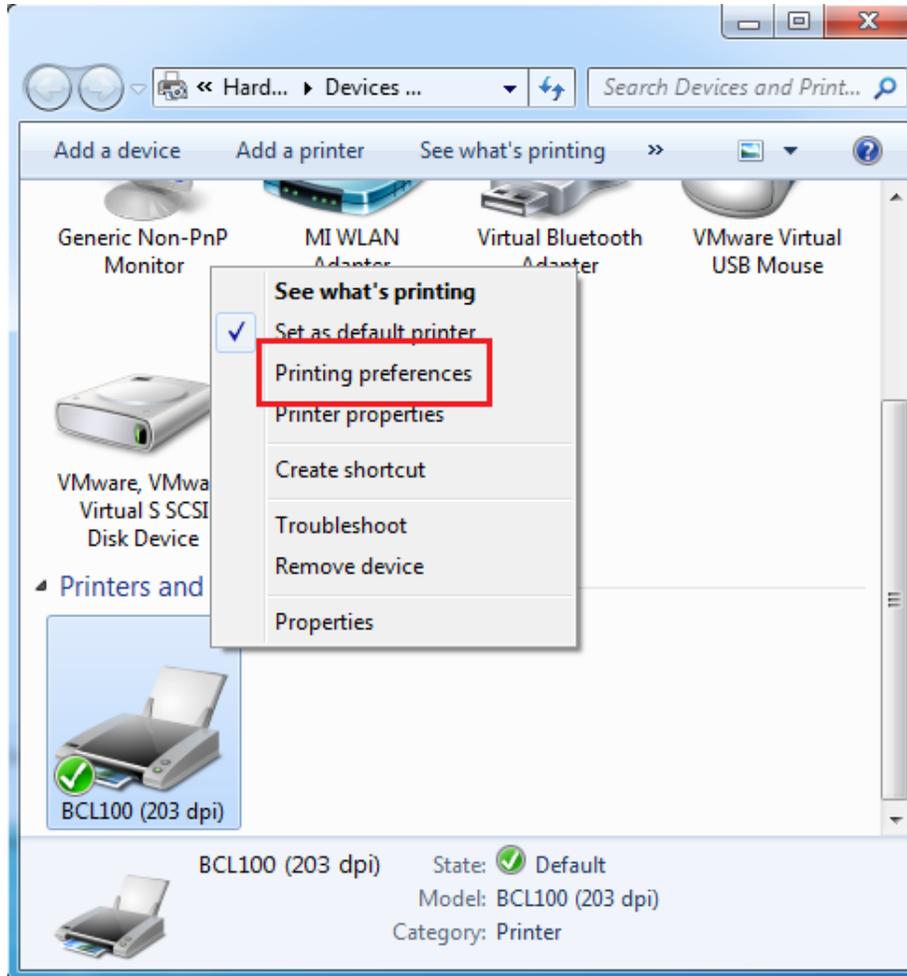
Select the driver you want to uninstall, then click "Next". When asked if you want to remove the driver, click "Yes".



Chapter 5 Seagull Windows Driver Instructions

5.1 Printing Preferences

To view printer preferences, click "Start", then "Devices and Printers". Right click the printer icon and select "Printing preferences".



Use the "Page Setup" window to adjust the page settings.

Choose the "Stock", then "Name" to choose the paper type.

Use the "New", "Edit", and "Delete" options, to manage stock types.

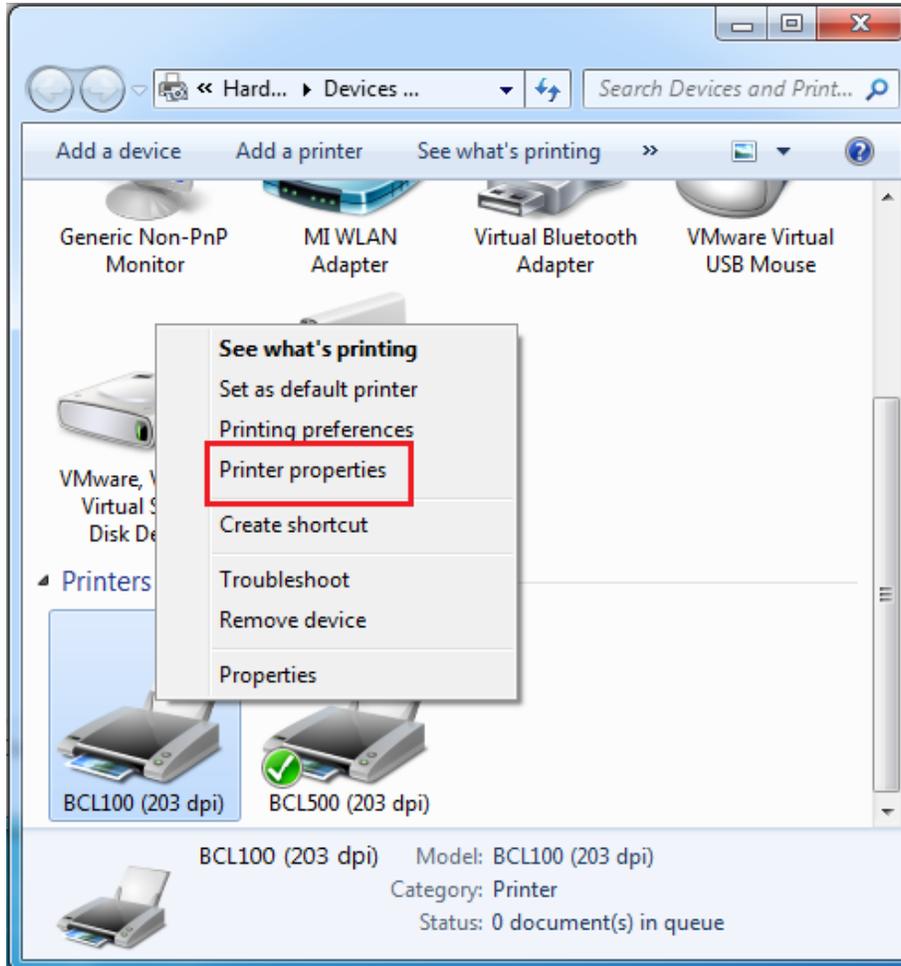
Select "Orientation" and "Effects" in the "Preview" window.

Choose the "Graphics" tab to edit pictures.

Choose the "Stock" tab to set media settings, feed mode, and feed options.

5.2 Printing Properties

To view printer properties, click "Start", then "Devices and Printers". Right click the printer icon and select "Printing properties".



Click "General", then "Print Test Page" to print a label with the current settings.

Click "Ports" and choose the ports you need. After selecting, click "Configure Ports" to view the bits per second, data bits, parity, stop bits, and flow control.

After making changes, click "OK", then "Apply" to configure the new port.

Click "Advanced" to view advanced settings.

Chapter 6 Care & Maintenance

Through normal use, adhesives and coatings from the media can transfer onto printer parts, including the thermal printhead and media sensor. Failure to clean the printhead, media path, and media sensor will result in the accumulation of dust and debris, leading to inadvertent loss of labels, media jams, and possible damage to the printer.

For safe cleaning, follow the recommendations below:

- Power off printer before cleaning.
- Give the printhead time to cool down before cleaning. A wait time of 2-3 minutes between powering off the printer and cleaning parts is highly recommended.
- Do not touch the heated portion of the printhead during cleaning as it is susceptible to damage from electric shocks. Wear gloves during cleaning to avoid this.
- Take extra care to ensure that the printhead does not become scratched and/or damaged in any way.

6.1 Media Sensor Maintenance

Debris or dirt on the media sensor can cause misreading or incorrect detection of the label gap. To clean, use a cotton swab dampened with alcohol.

6.2 Thermal Printhead Maintenance

Before cleaning the thermal printhead, make sure you have given the unit sufficient time to cool down. Do not touch the heating elements with your fingers as it may cause damage to the unit or personal injury. Clean the printhead with a cotton swab dipped in methanol or isopropyl alcohol or use a cleaning pen (not provided).

1. Open the printer cover and wipe the printhead with the cotton swab or cleaning pen starting from the center and working toward the ends.
2. After cleaning, allow the alcohol to evaporate for 1-2 minute(s) to ensure the printer is completely dry.
3. Perform this cleaning each time the paper roll is replaced to prevent deterioration in print quality.

6.3 Roller and Media Path Maintenance

Perform this cleaning if you notice a drop in print quality or the printer's ability to detect media.

1. Open the print cover and remove the media roll.
2. Remove any dust or debris with a dry cloth or cotton swab (if used in a medical setting, use a cloth or cotton swab soaked in alcohol).
3. After cleaning, allow the alcohol to evaporate for 1-2 minute(s) to ensure the printer is completely dry.

Chapter 7 Printer Utility Tool Instructions

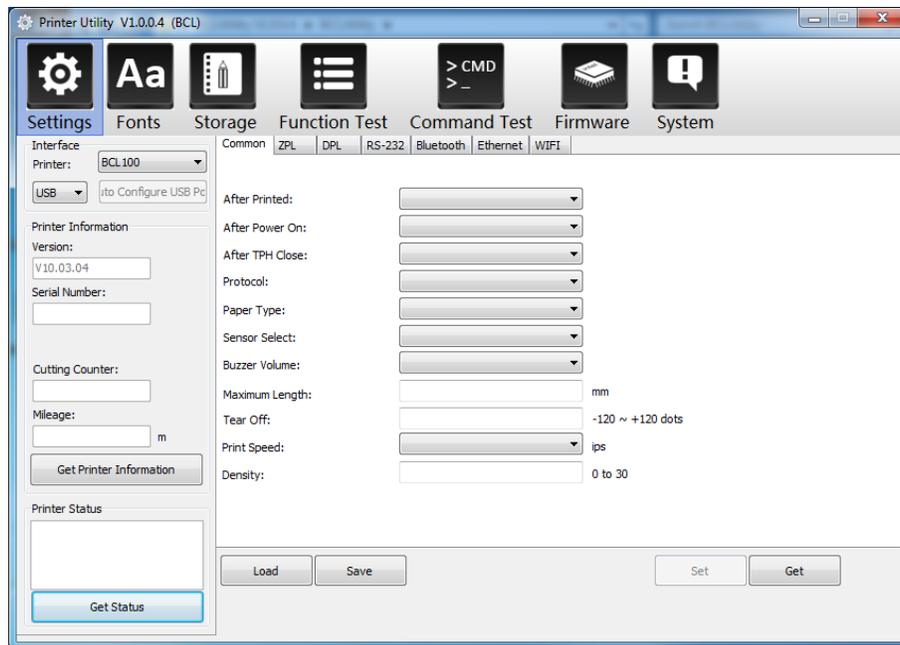
The BCL Printer Utility Tool is designed to help you manage printer settings and upgrade the printer firmware. Below is a guide to install and use the Printer Utility Tool.

7.1 Installation

Visit <https://bclinternational.com/pages/utility> to download the application.

Note: The screens used below may vary slightly depending on your printer model and operating system.

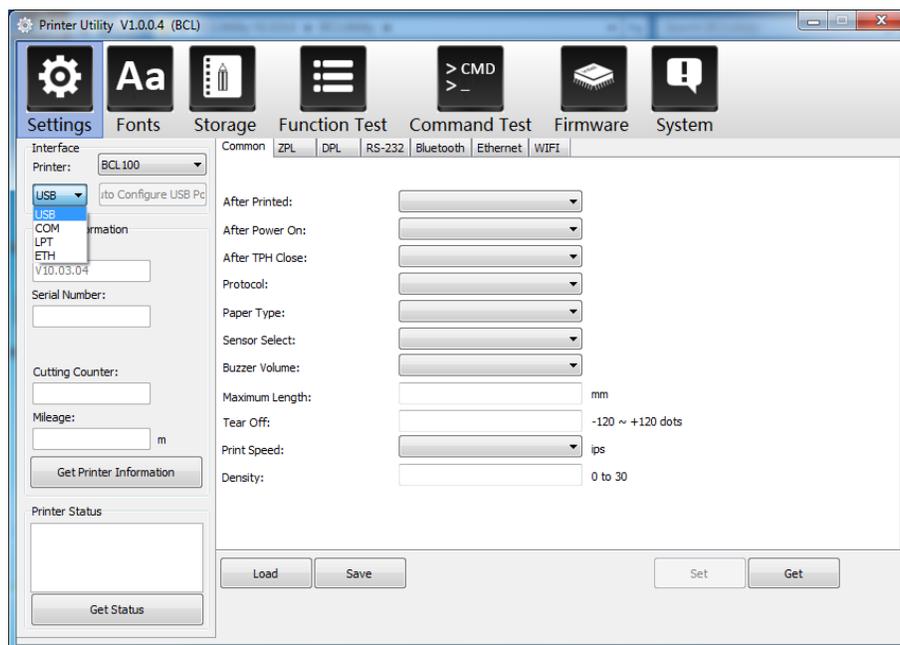
Install and open "BCLUtility.exe"



7.2 Settings

Click "Settings", then choose the printer model.

Select the proper connection interface (USB, ETH, etc.).



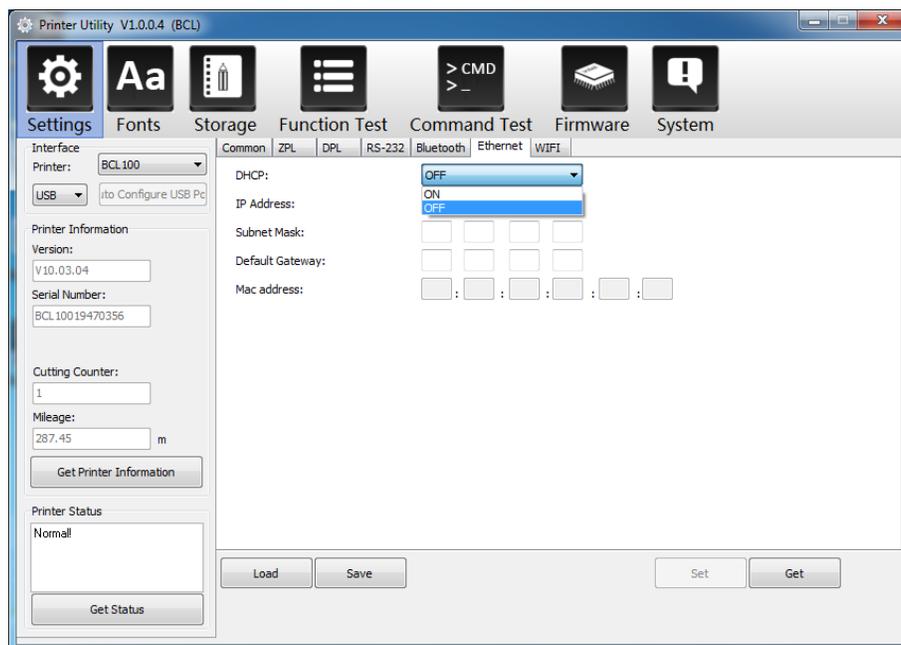
Click "Get Printer Information" to view the version, serial number, cutting counter, and mileage.

Click "Get Status" to view the printer status.

Click the tab labelled "Common", then click "Get" to view the paper type, sensor select, and print speed.

Click "RS-232" to set up the baud rate, data bits, parity, and flow control.

Click the tab labelled "Ethernet", then click "Get" to see the values shown below.



Click the tab labelled "Wi-Fi" to set up the name, password, and other options.

Note: To save any setting changes, click "Set" on the bottom right of the window.

To revert to default values, click "Get".

7.3 Vector Fonts

Click "Fonts" at the top of the window to change font settings.

Click the "..." button next to "File Name" to select your vector font. Once selected, click "Download".

Note: File names must contain letters and numbers only.

7.4 Image Printing

Click “Storage” to open the window to print images.

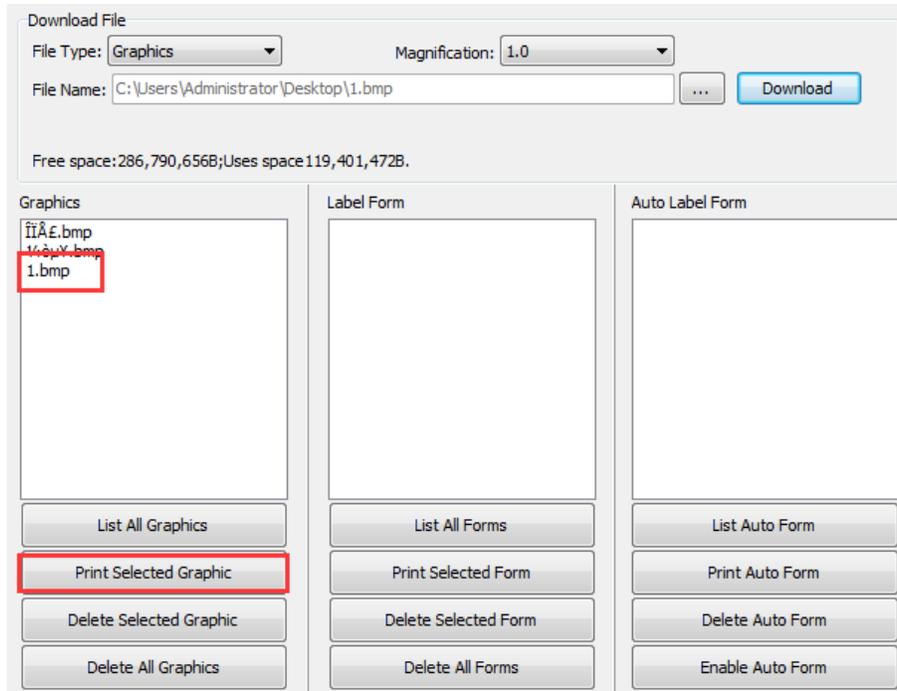
Click the “...” button next to “File Name” to select your image. Click “Download” once your file is selected.

The screenshot shows a software interface titled "Download File". At the top, there are two dropdown menus: "File Type:" set to "Graphics" and "Magnification:" set to "1.0". Below these is a "File Name:" text input field followed by a three-dot menu button and a "Download" button. A status bar at the bottom of this section shows "Free space: 119,401,472B; Uses space 286,790,656B".

The main area is divided into three columns: "Graphics", "Label Form", and "Auto Label Form". Each column contains a large empty rectangular area for displaying thumbnails. Below each area is a vertical stack of four buttons: "List All [Category]", "Print Selected [Category]", "Delete Selected [Category]", and "Delete All [Category]". The "Auto Label Form" column has an additional "Enable Auto Form" button at the bottom.

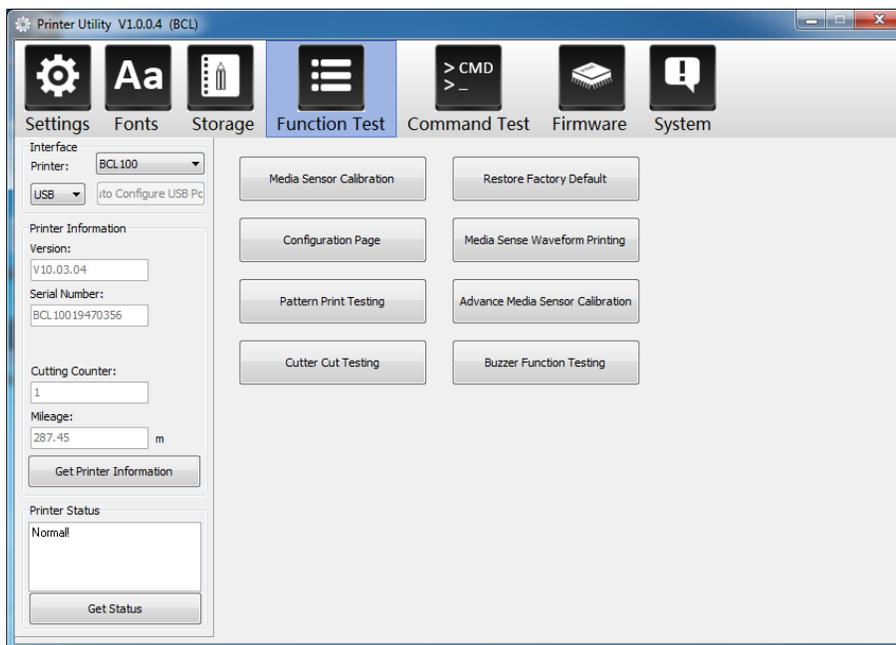
A second, smaller screenshot below shows the same "Download File" window, but with a red box highlighting the three-dot menu button next to the "File Name:" field.

Select the file from the graphics window and click “Print Selected Graphic” to print the image. Be sure to adjust magnification (above the “download” button) as needed before printing.



7.5 Function Test

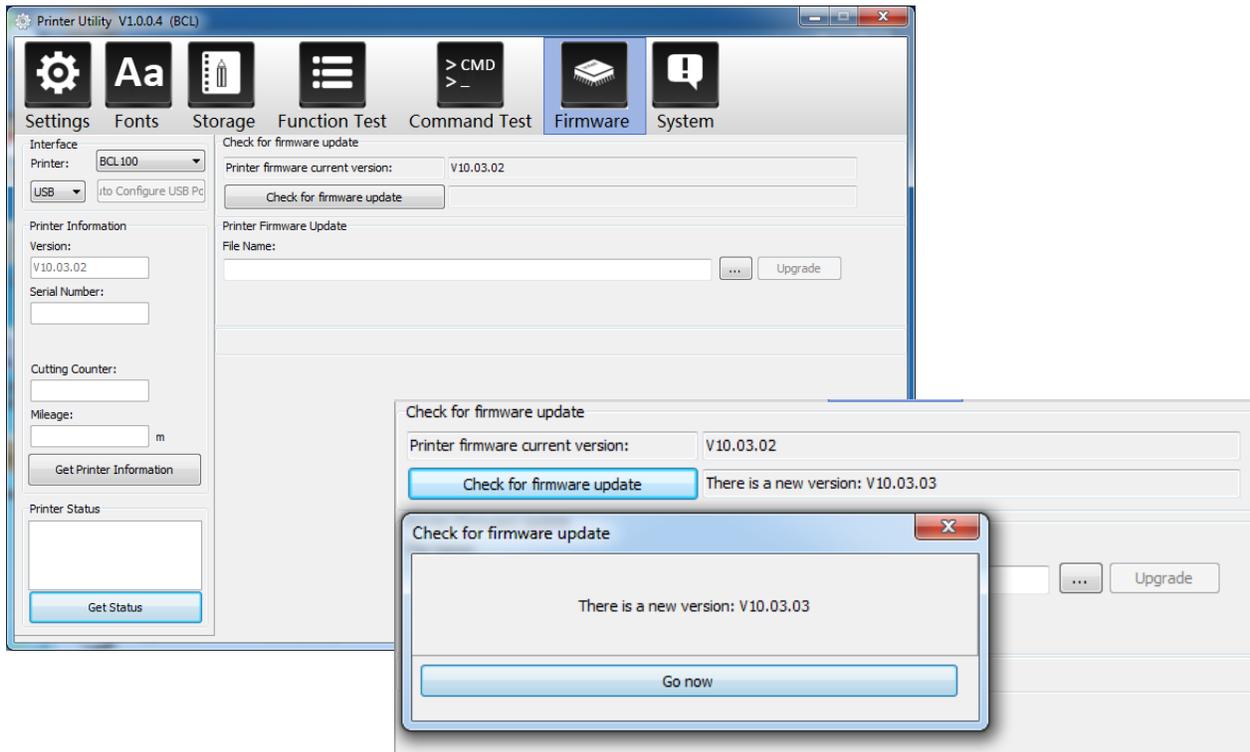
Click "Function Test" to view the testing options shown below.



7.6 Firmware

Click "Firmware" to get the current version or to update your firmware.

To update firmware, click "Check for firmware update". If an update appears, click "Go now".



Visit <https://bclinternational.com/pages/firmware> to download the firmware update.



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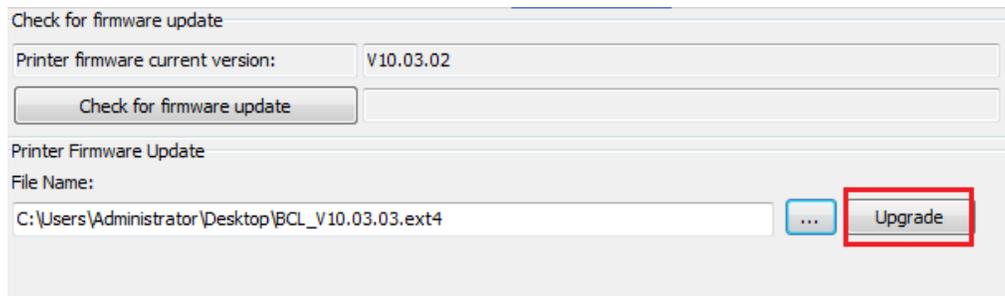
F

DRIVERS
FIRMWARE
UTILITY

BCL Printer Series Firmware:

[V10.03.04](#)

With the update downloaded, click the "..." button next to "File Name" and choose the correct file. Then, click "Upgrade" and wait for the printer to restart.



Chapter 8 BarTender Ultralite Instructions

To utilize the BarTender Ultralite software, you will need the Seagull Windows Driver installed. For information about installation and use of the Seagull Windows Driver, refer to "Chapter 5 Seagull Windows Driver Instructions".

8.1 Introduction

The BarTender Ultralite application supports the following operating systems:

- Windows Vista, Windows 7, Windows 8 and 8.1, and Windows 10.
- Windows Server 2008, 2008 R2, 2012, 2012 R2, and 2016.
- 32-bit and 64-bit (x64) editions.

8.2 Installation

Visit <https://bclinternational.com/pages/bartender> to download the BarTender Ultralite application.

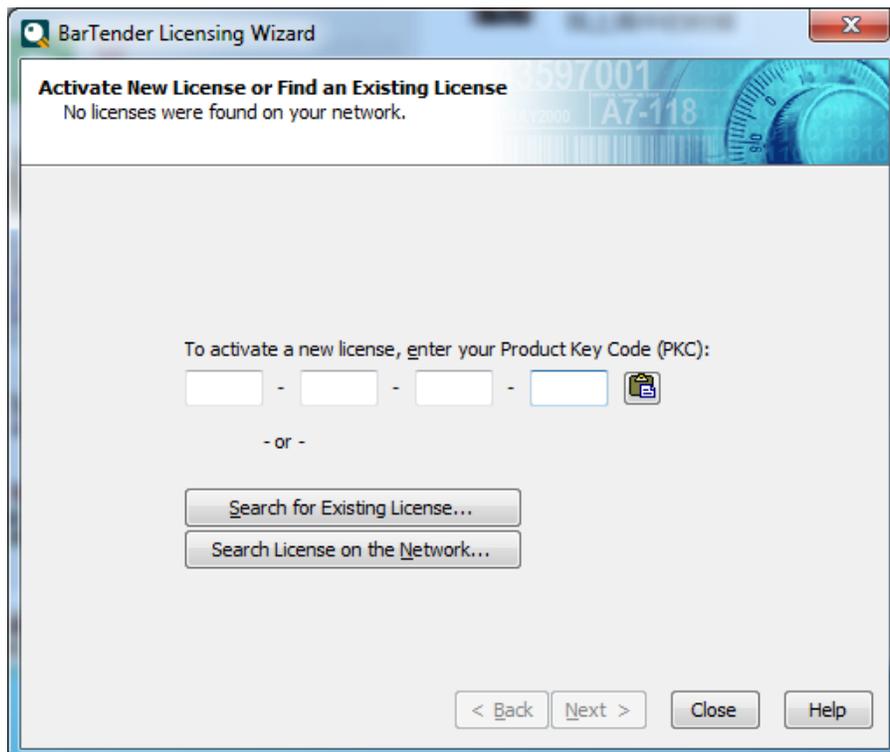
Note: The screens used below may vary slightly depending on your printer model and operating system. Install drivers based on the steps provided below. Turning off your security software before installation is recommended.

1. Connect your printer to your computer and power it on.
2. Double click the BarTender Ultralite Driver. Read and agree to the licensing agreement. Then, click "Install".



3. After installation, click "Finish".

4. Enter your Product Key Code to activate your license, then click "Next".

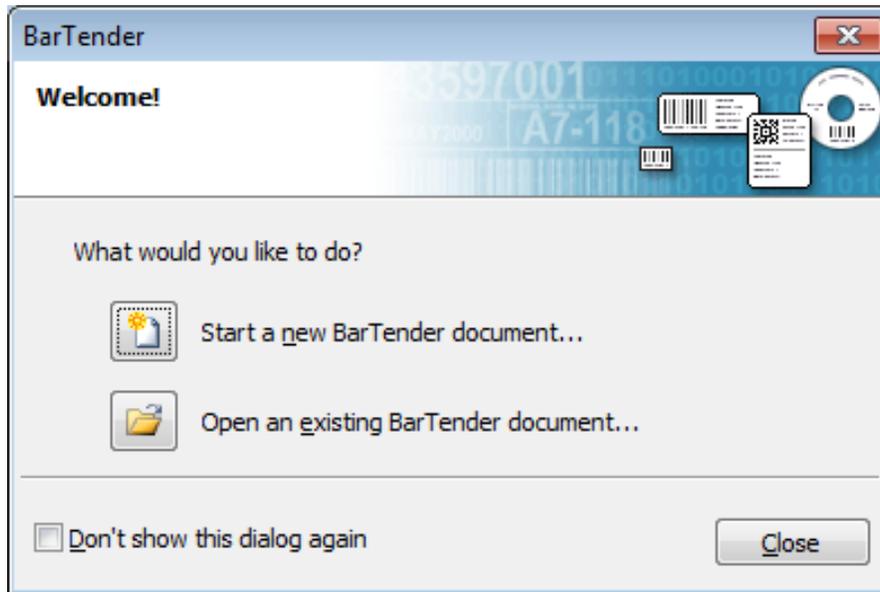


5. Select a licensing server, then click "Next". Then, click "Finish".

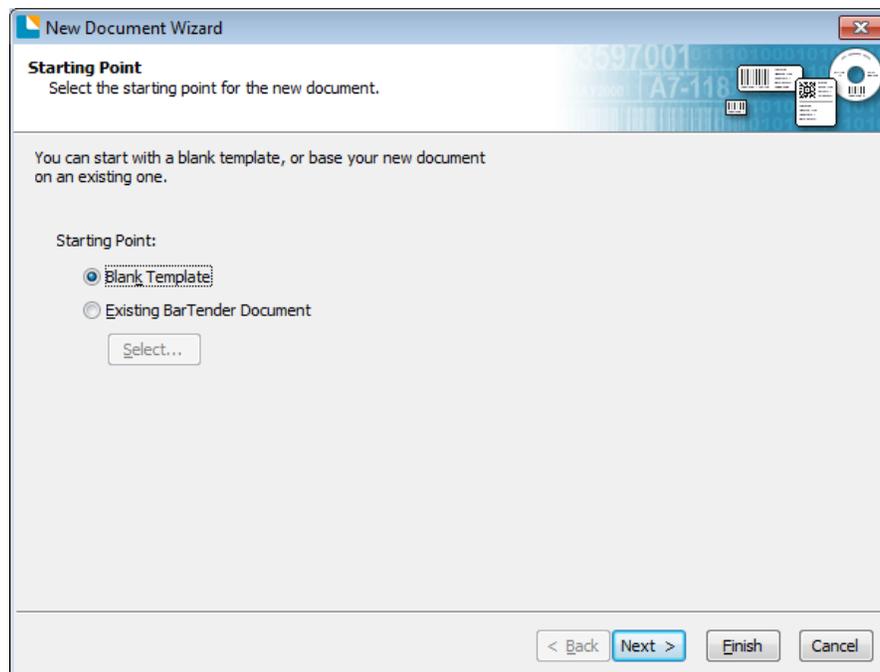
8.3 Usage

8.3.1 Page Settings

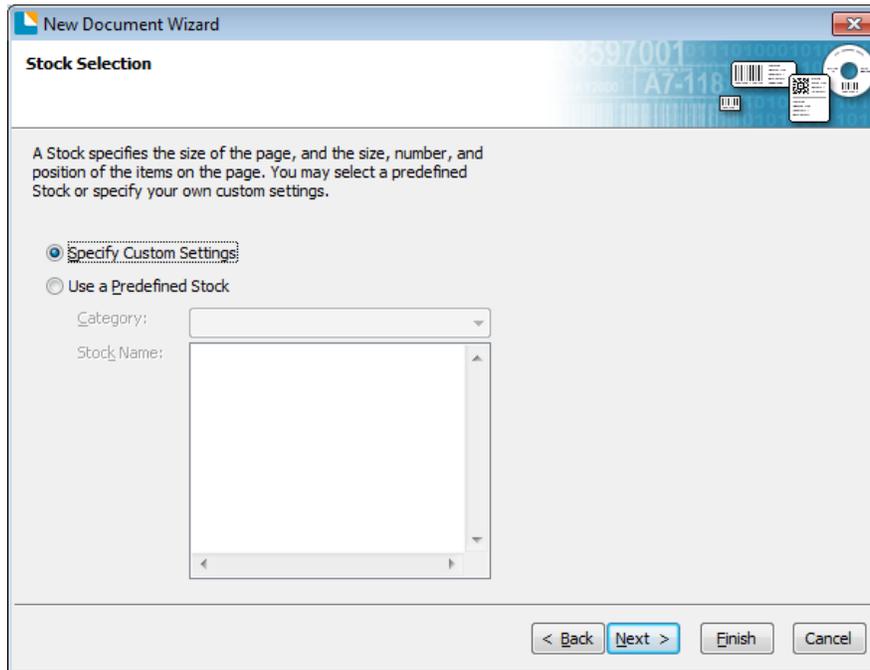
1. Click "Start a new BarTender document".



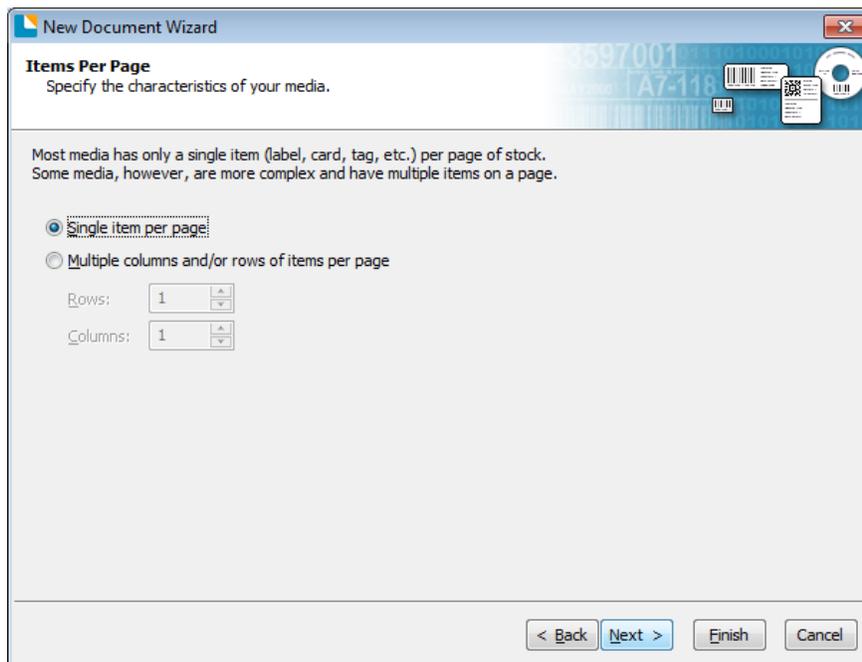
2. Choose "Blank Template", then click "Next".



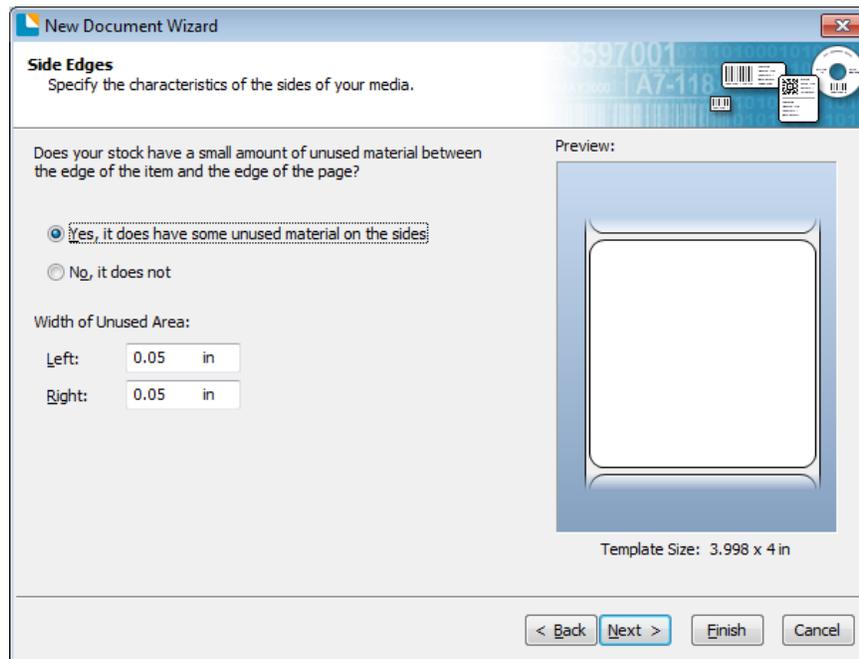
3. Select a predefined stock or select "Specify Custom Settings". Then, click "Next".



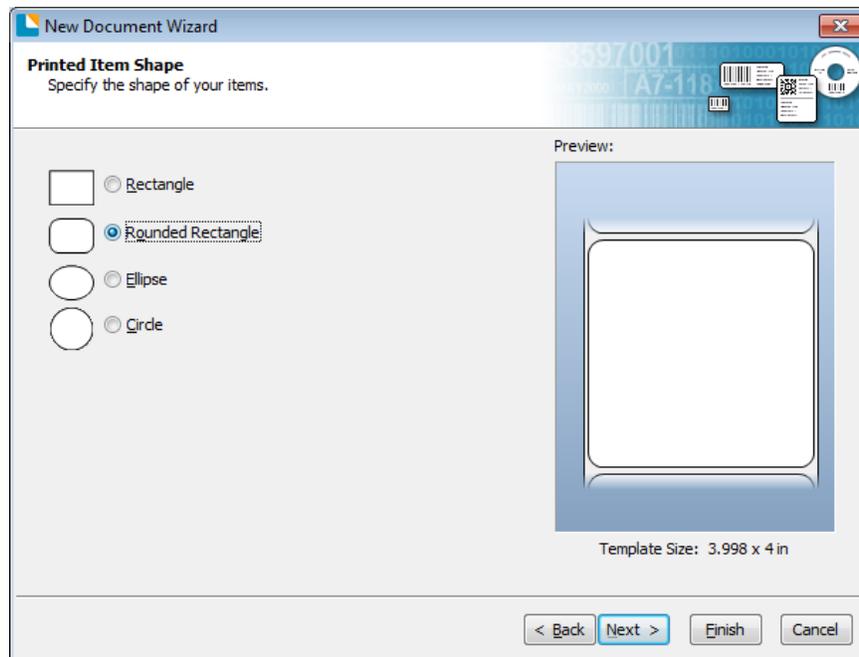
4. Select "Single item per page", then click "Next". If printing multiple labels, select "Multiple columns and/or rows of items per page".



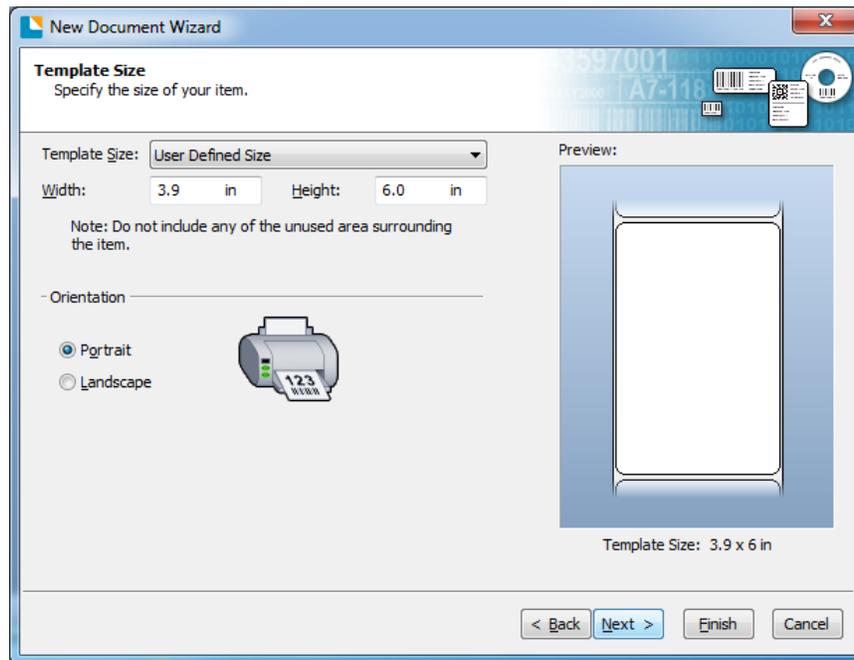
5. Enter the side edges, then click "Next".



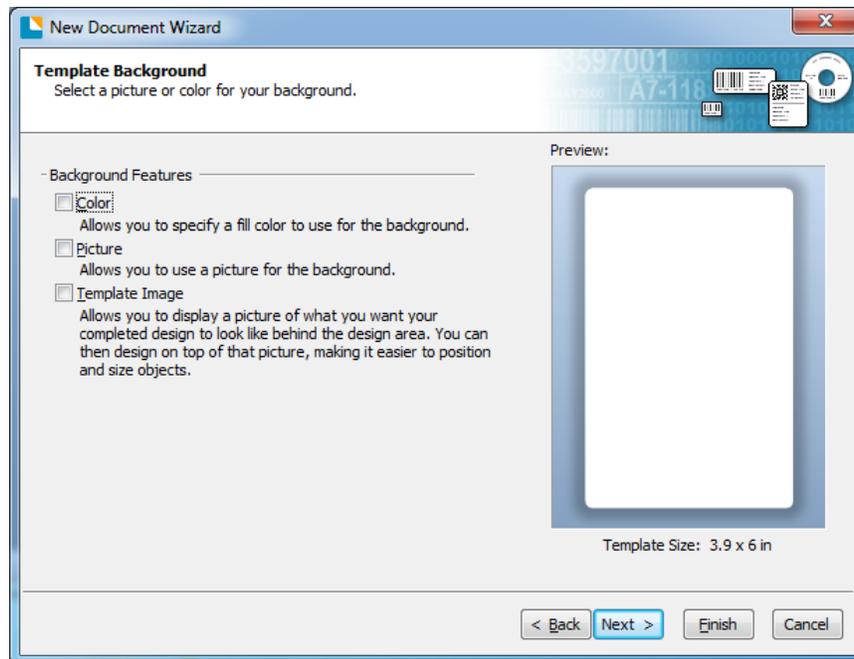
6. Choose the item shape, then click "Next".



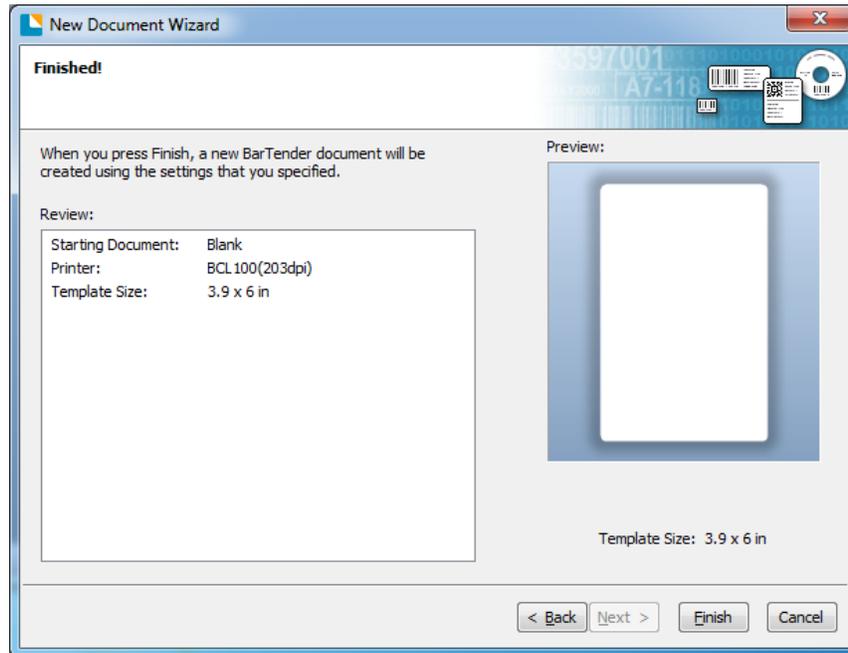
7. Edit the template size, then click "Next".



8. Select the background features needed, then click "Next".

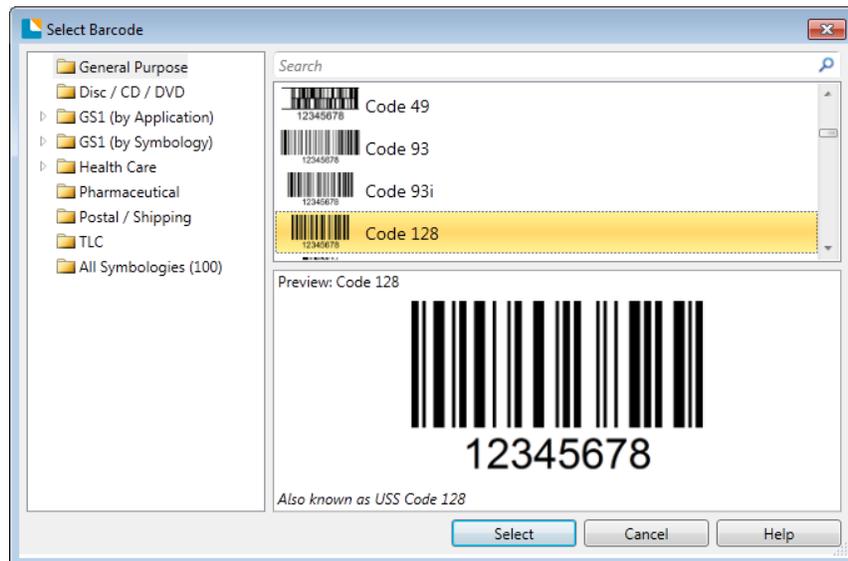


9. Review your selected settings, then click "Finish".



8.3.2 Label Edit

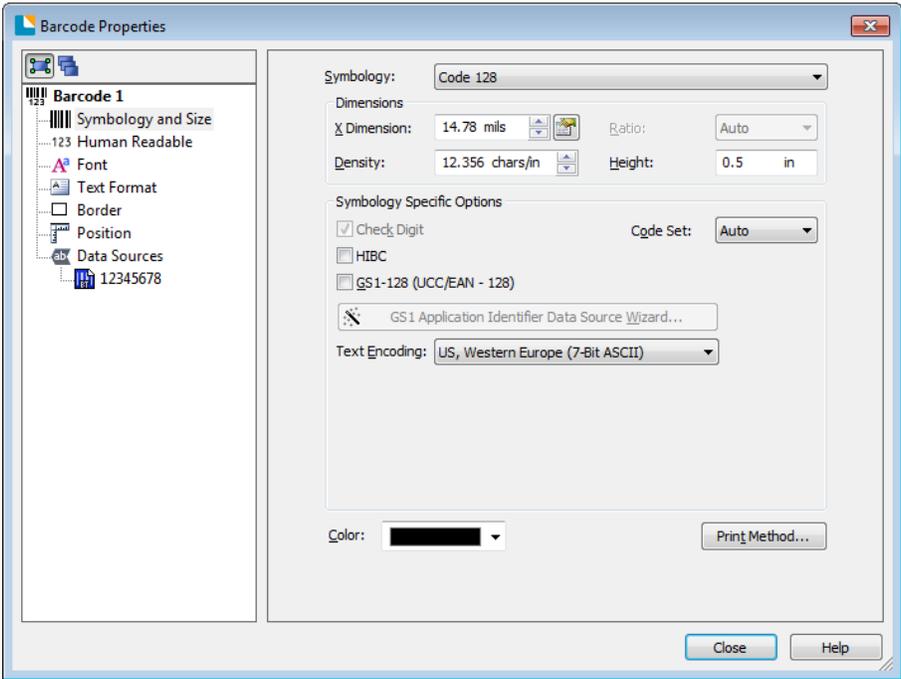
1. Click the icon of the code you want to edit, then click "Select".



2. Click in the blank area to show the code.



3. Double click the code to edit it. Use the “Barcode Properties” window to change the size, font, border, and more.



4. Click the character icon to add text.



5. Click the picture icon to add and edit pictures.



6. Compose the text, then finish changing all settings. Click "Print" to print your new label.



Chapter 9 Ethernet Connection and Settings

The following instructions are only applicable to the BCL 110. The BCL 100 does not support ethernet connection.

For all ethernet connections, make sure the printer and computer are connected to the same router. Also make sure the printer has been connected to the computer you are using.

9.1 Configuring with the BCL Driver

Make sure to have the BCL driver downloaded onto your computer before beginning this process (download the driver at bclinternational.com/pages/drivers).

1. Power on the printer and connect the Ethernet cable to both the printer and your network router.
2. Print a test page and note the "ETH IP" address.
3. Go to the "Devices and Printers" menu and select add a printer.
4. Select "The printer that I want is not listed" and choose to "Add a printer using a TCP/IP address".
5. Type the Ethernet IP address into the "Hostname or IP Address" field.
6. When the device is not immediately detected, select "Generic Network Card".
7. Once the device is found, the BCL driver will be automatically detected. Select the BCL driver, choose whether you want to share the printer or not, and then click "Finish". Print a test page to confirm the connection.

9.2 Configuring with the ZP500 Driver

Make sure to have the ZP driver downloaded onto your computer before beginning this process (download the driver at bclinternational.com/pages/drivers).

1. First follow the instructions above to set up your printer with the standard BCL driver. Make sure those steps are completed first.
2. Once complete, open the driver pack for the ZP500 driver.
3. You will then be asked to designate a port for the printer. Select the port that corresponds with your Ethernet IP address. Click "Next", then click "Finish".
4. With the driver installed, your printer will now appear as "ZP500" in the "Devices and Printers" menu. Right click on the printer and select "Printer properties" to print a test page to confirm your new settings.

9.3 Configuring without a driver

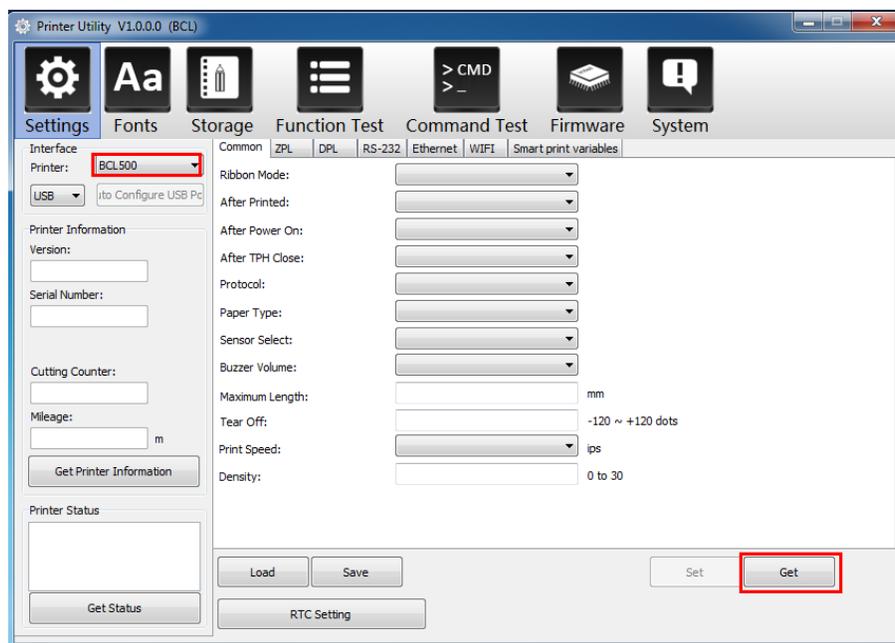
1. Power on the printer and connect the Ethernet cable to both the printer and your network router.
2. Print a test page and note the "ETH IP" address.
3. Go to the "Devices and Printers" menu and select "Add a printer".
4. Select "The printer that I want is not listed" and choose to "Add a printer using a TCP/IP address".

5. Type the Ethernet IP address into the "Hostname or IP Address" field.
6. When the device is not immediately detected, select "Generic Network Card".
7. Once the device is found, you will be asked to select a driver. If you want to install a driver later, select the option for no driver. Your printer will appear in the "Devices and Printers" menu but will not be usable.
8. Open the file for the driver you want to install. When asked what port you want to install it on, select the port that corresponds with your Ethernet IP address.
9. Follow the remaining prompts and click "Finish". Print a test page to confirm the connection.

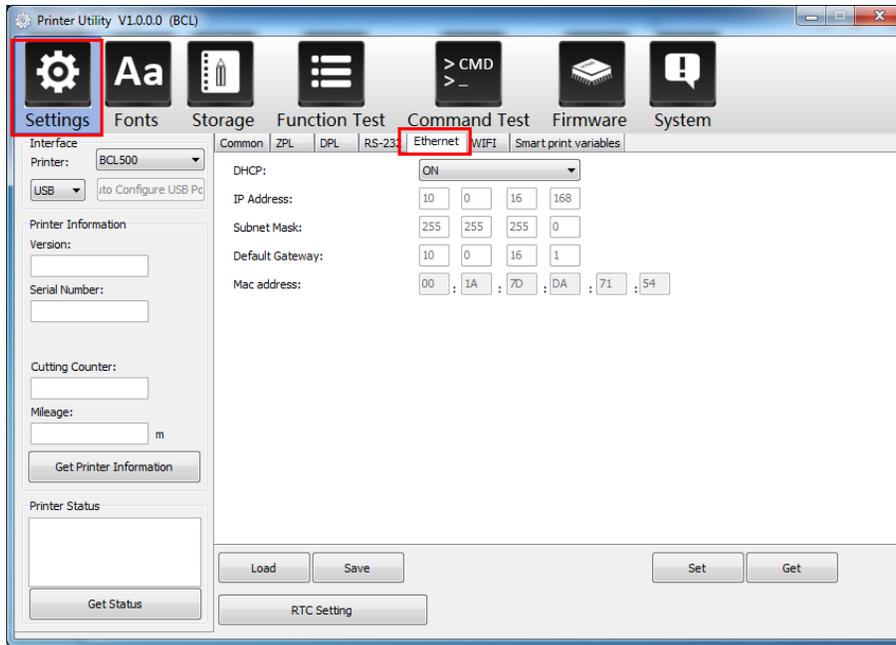
9.4 AP Mode

9.4.1 Utility Setting

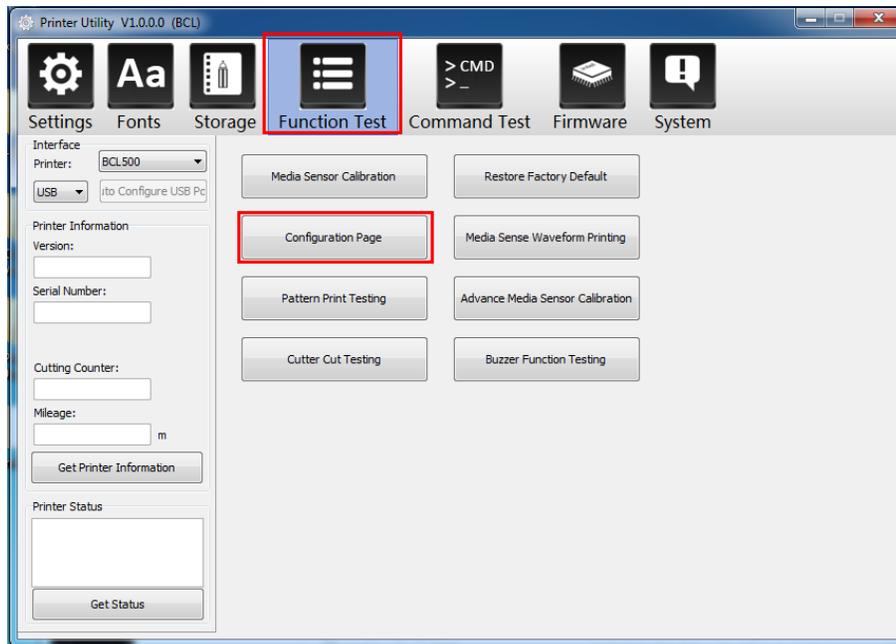
1. Enter the printer utility settings and click "Get" at the bottom right of the window.



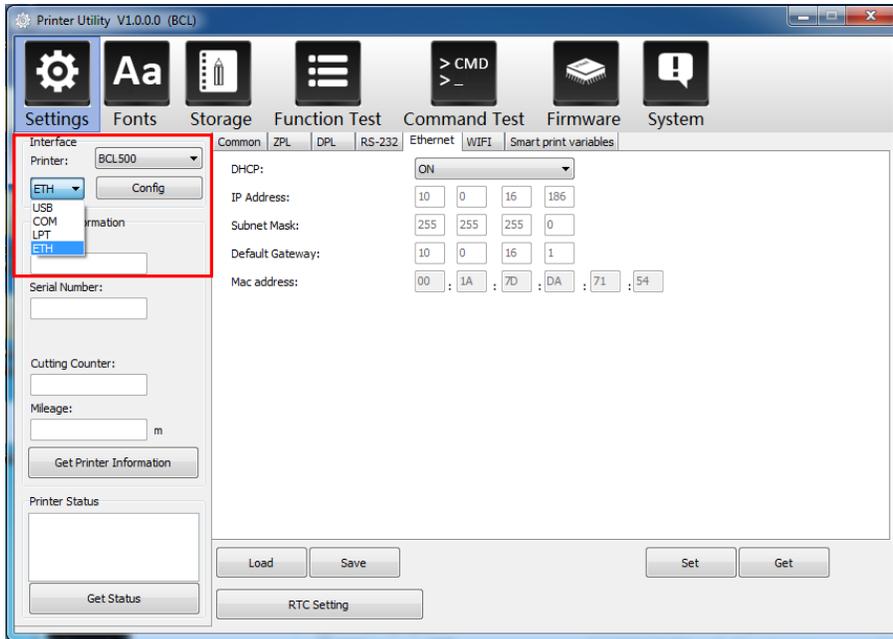
2. Choose the "Ethernet" tab and set the "DHCP" setting to "On". Then, click "Set" and restart the printer.



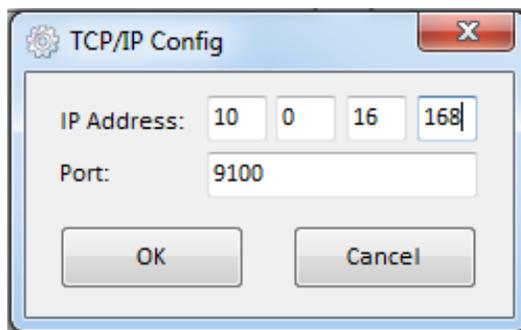
3. Choose the "Function Test" tab and click "Configuration Page" to view the IP address.



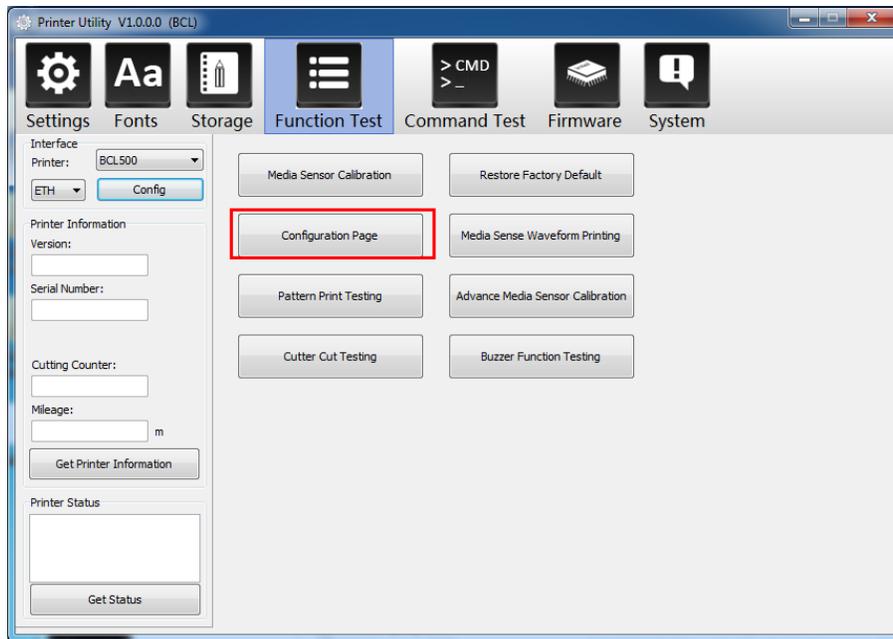
4. Set the communication interface to "ETH" and click "Config".



5. Set the IP address to match what was listed on the previous configuration page. Then, click "OK".

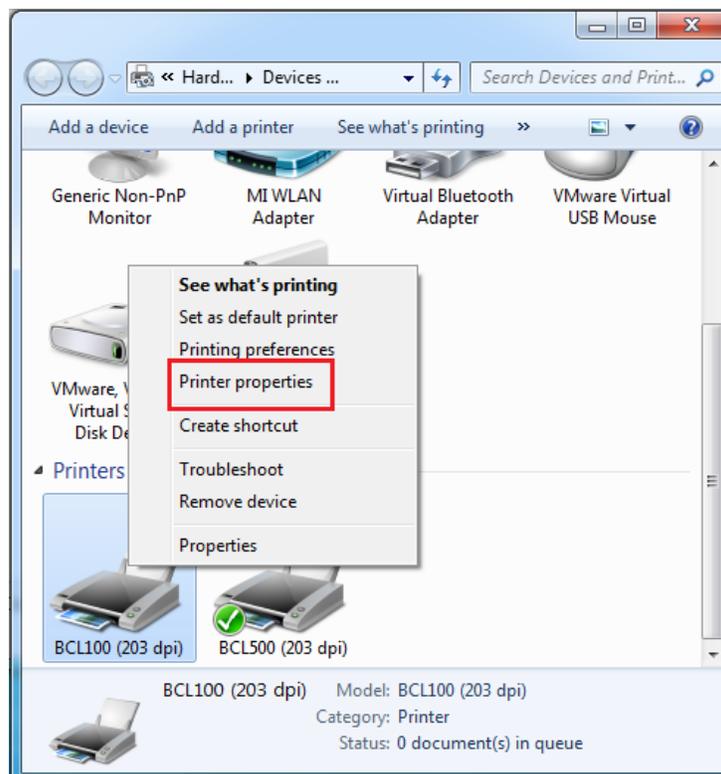


6. Go back to the "Function Test" tab and print a new configuration page to confirm the new settings.

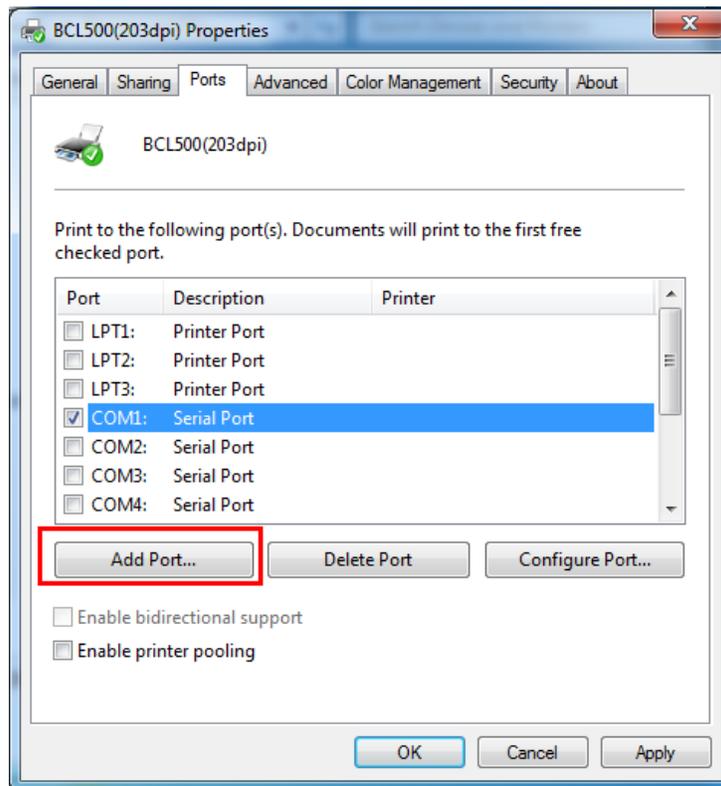


9.4.2 Driver Setting

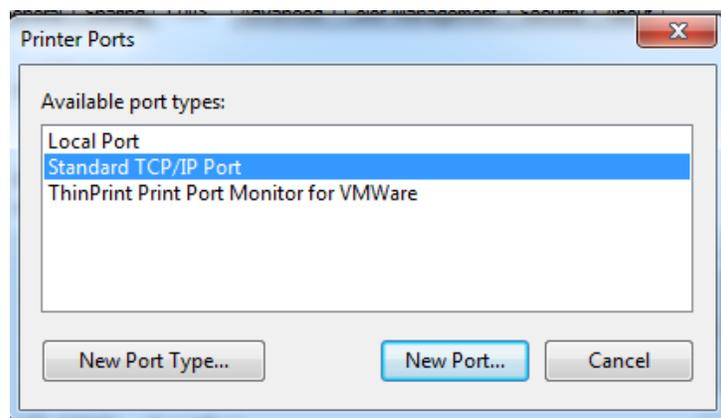
1. From the "Start" menu, select "Devices and Printers". Right click the correct printer icon and choose "Printing properties".



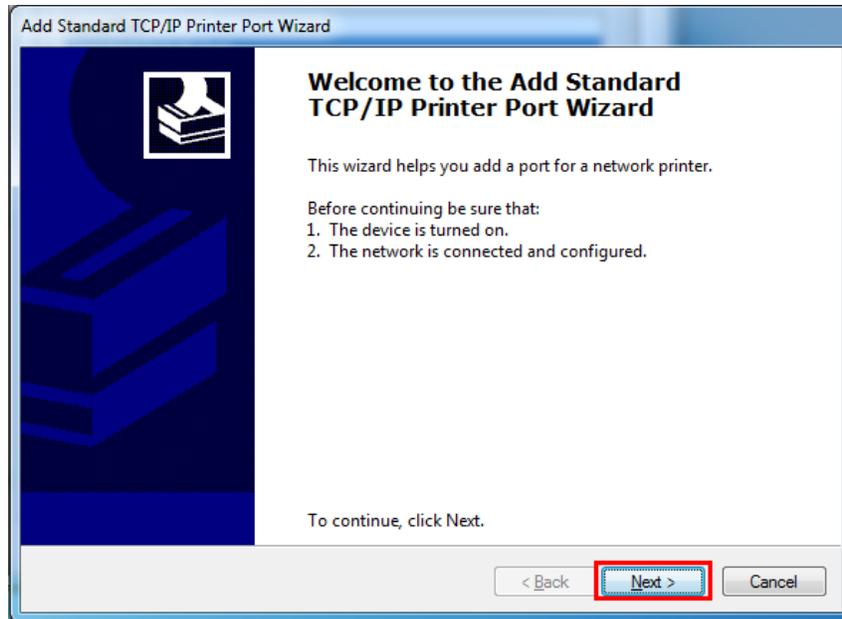
2. Select the "Ports" tab and click "Add Port".



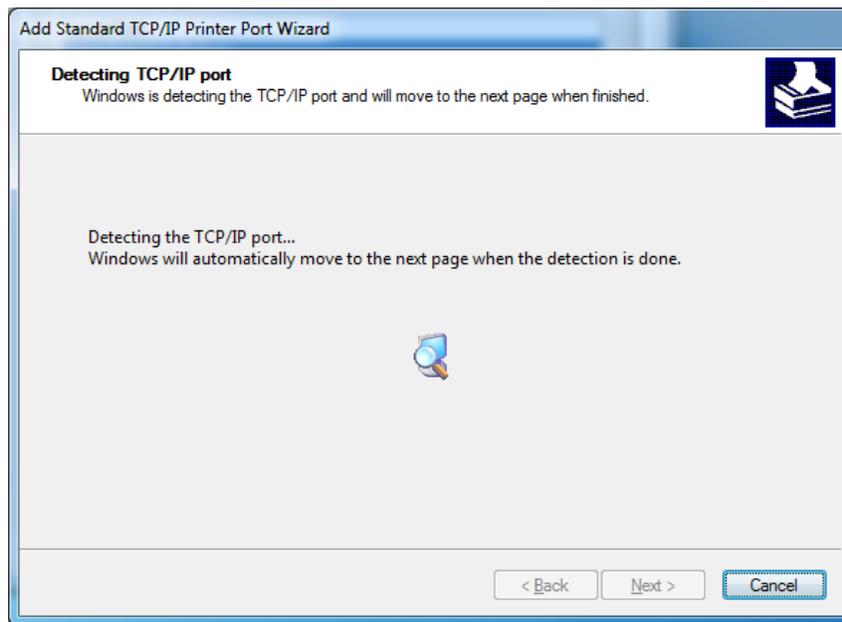
3. Choose "Standard TCP/IP Port", then click "New Port".



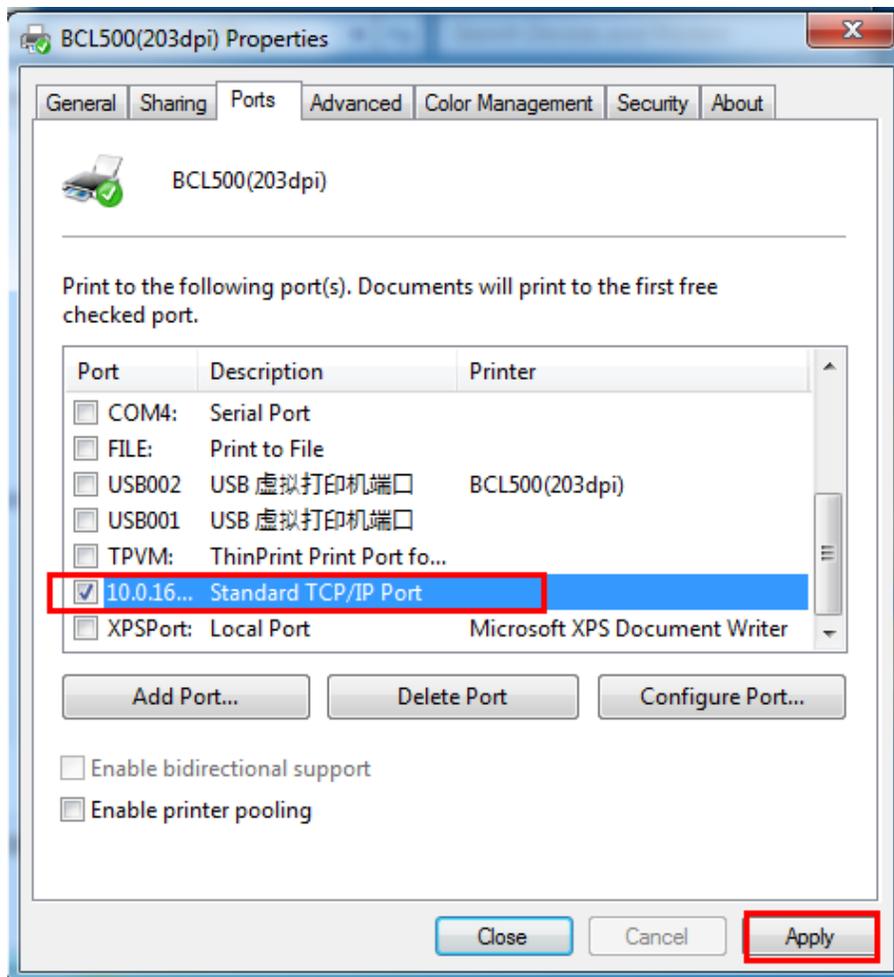
4. On the first screen of the Port Wizard, click "Next". Then, input the IP address.



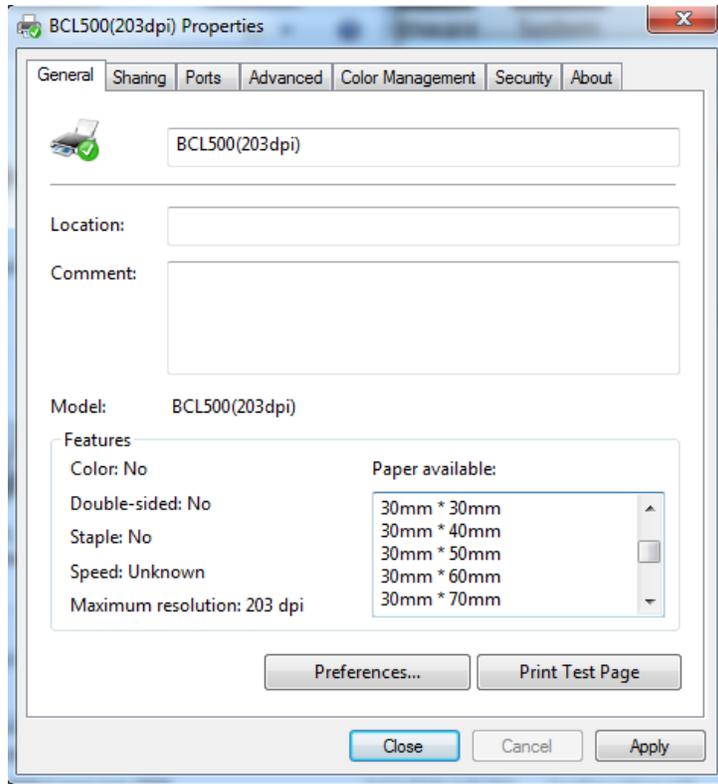
5. Once the port is detected, click "Next".



6. Once the connection is established, click "Finish". Return to the "Port" page, choose the newly added port, and click "Apply".



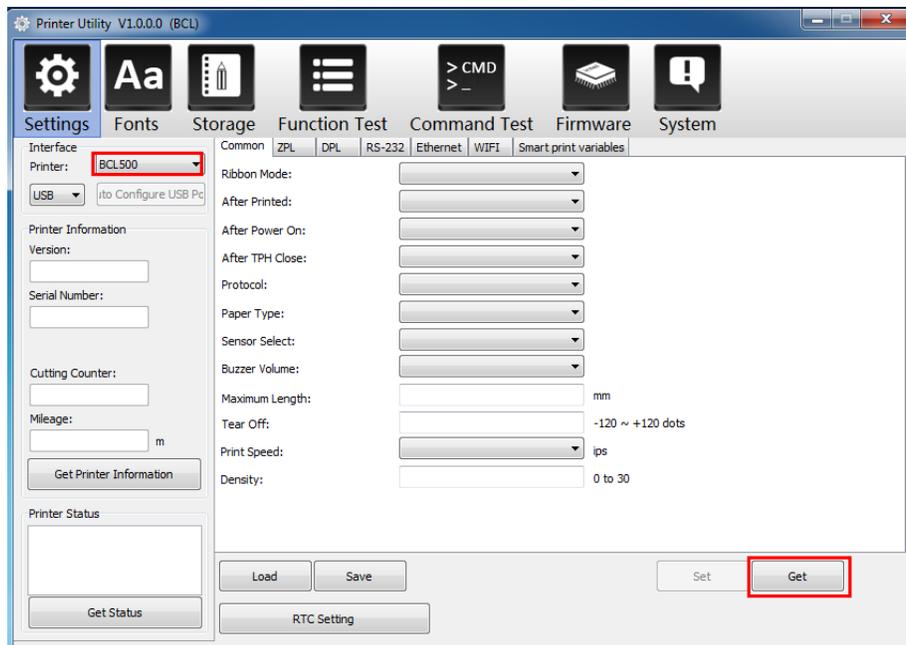
7. Choose the "General" tab and print a test page to confirm the new settings.



9.5 STA Mode

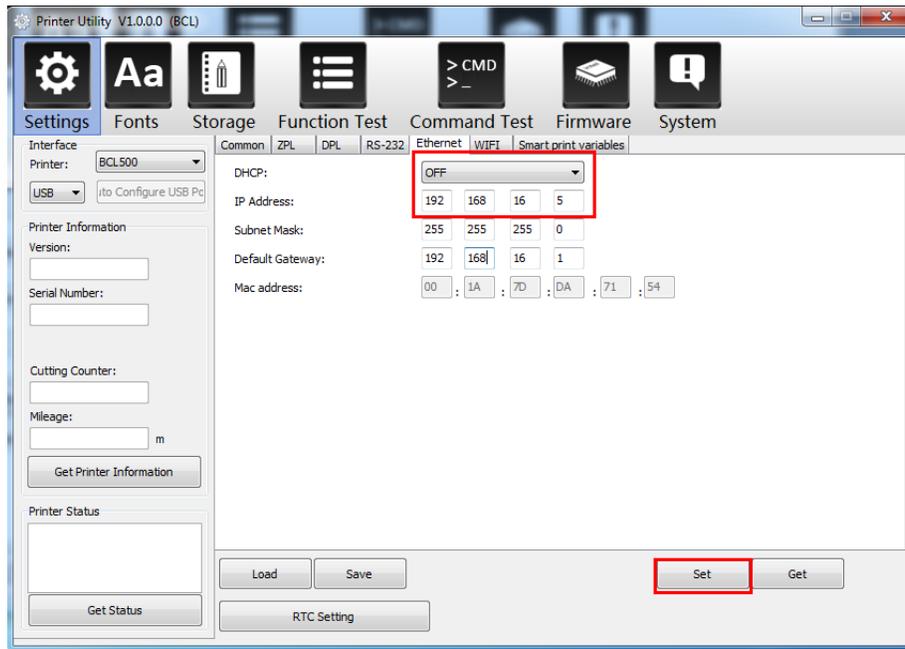
9.5.1 Utility Setting

1. Enter the printer utility settings and click "Get" at the bottom right of the window.

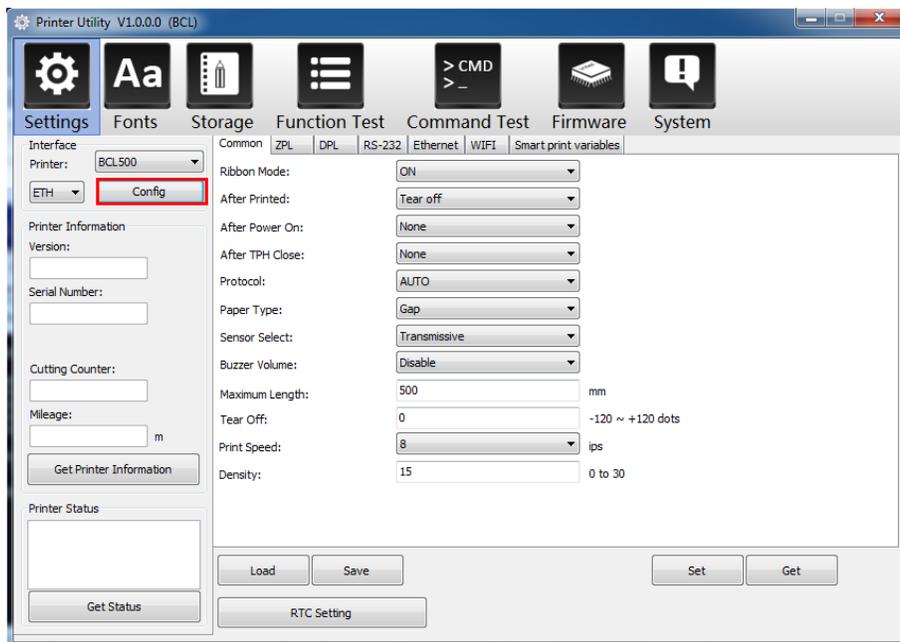


2. Choose the "Ethernet" tab and set the "DHCP" setting to "Off". Then, click "Set" and restart the printer.

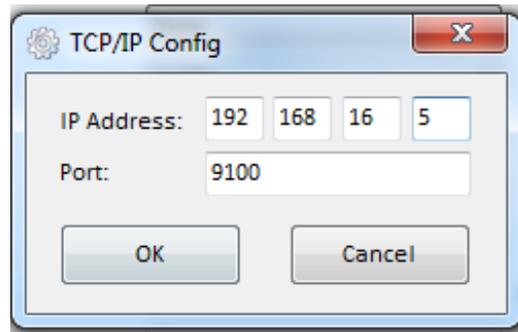
Note: Make sure the PC and printer are using the same IP address before restarting the printer.



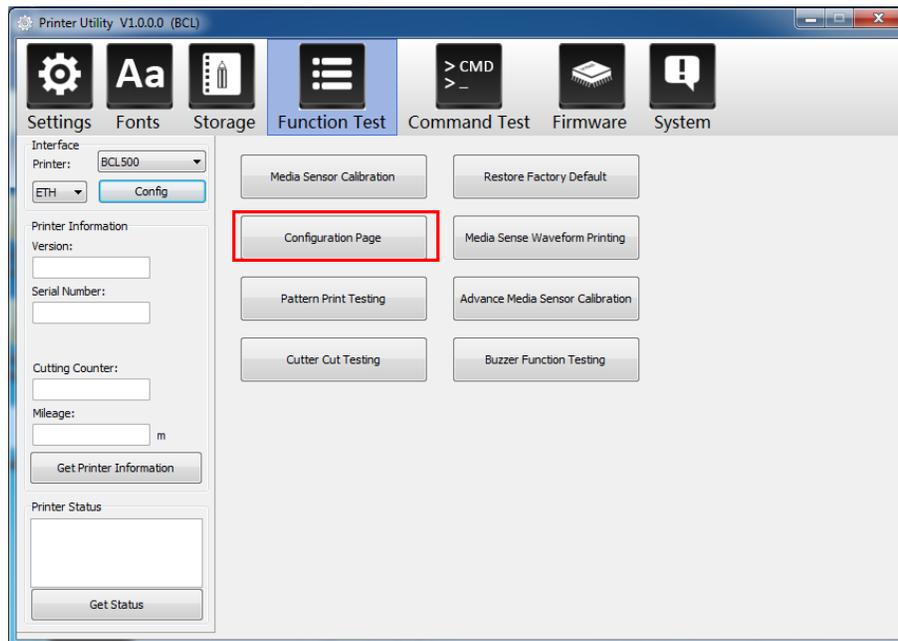
3. Go back to the printer utility window and set the communication interface to "ETH". Then, click "Config".



4. Input the correct IP address and click "OK".



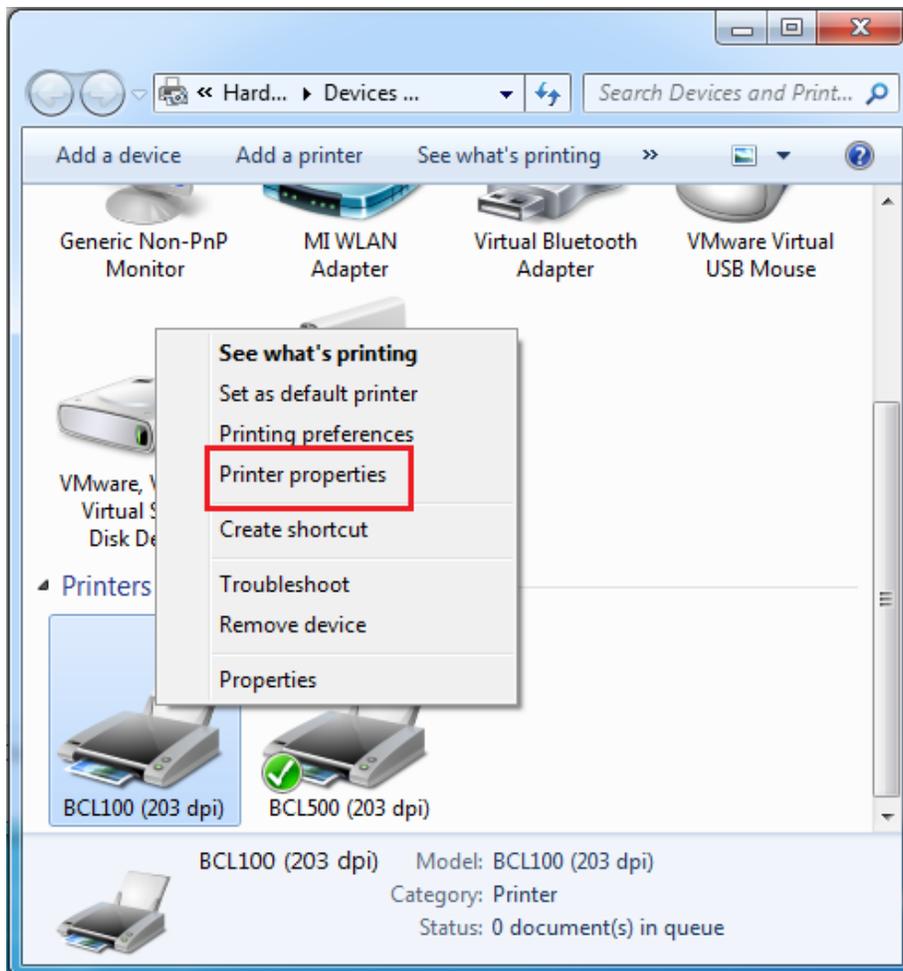
5. Go back to the "Function Test" tab and print a new configuration page to confirm the new settings.



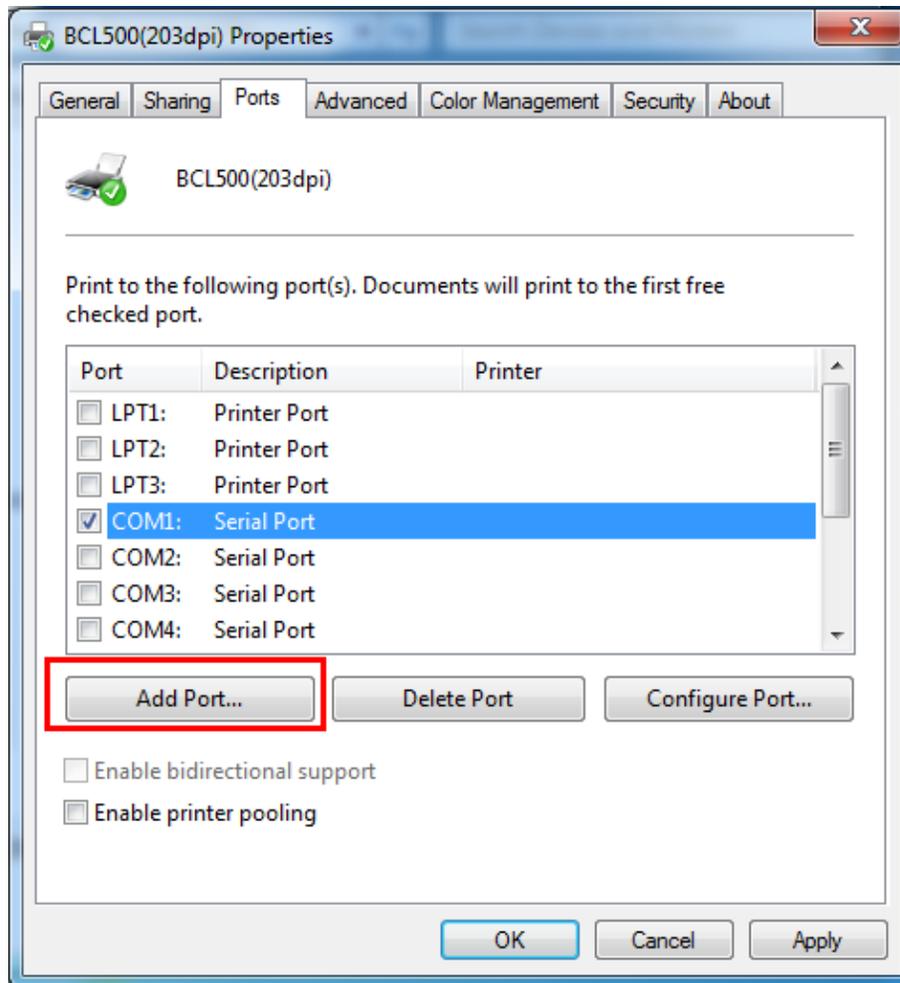
6. Go back to the "Function Test" tab and print a new configuration page to confirm the new settings.

9.5.2 Driver Setting

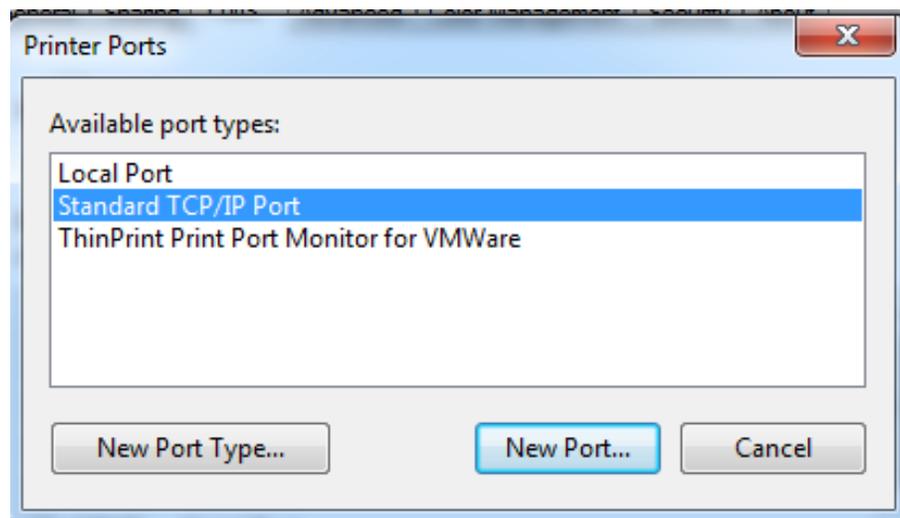
1. From the "Start" menu, select "Devices and Printers". Right click the correct printer icon and choose "Printing properties".



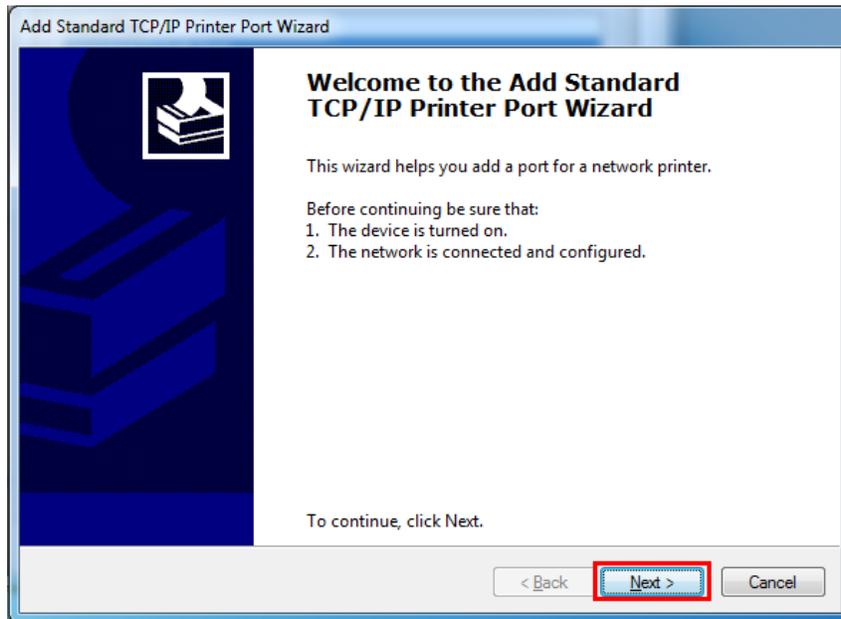
2. Select the "Ports" tab and click "Add Port".



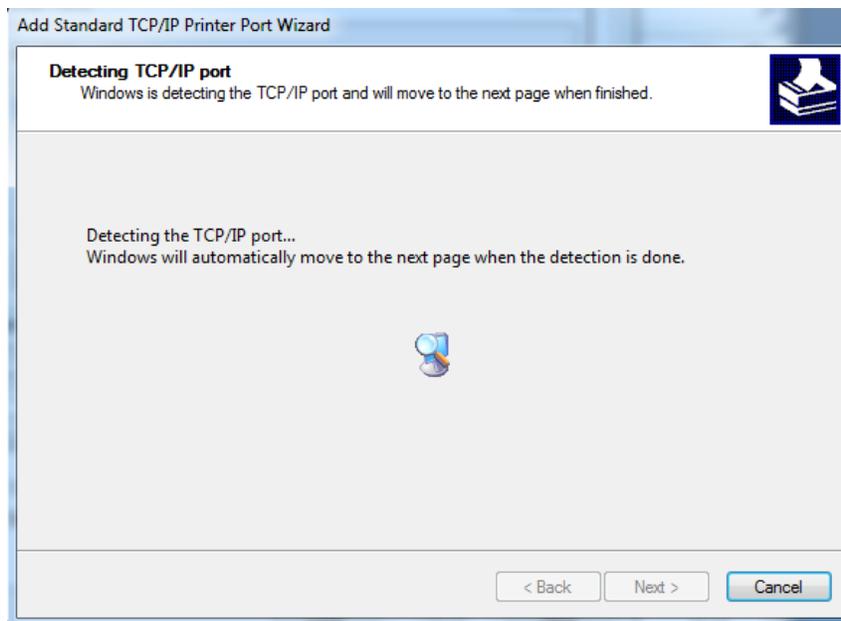
3. Choose "Standard TCP/IP Port", then click "New Port".



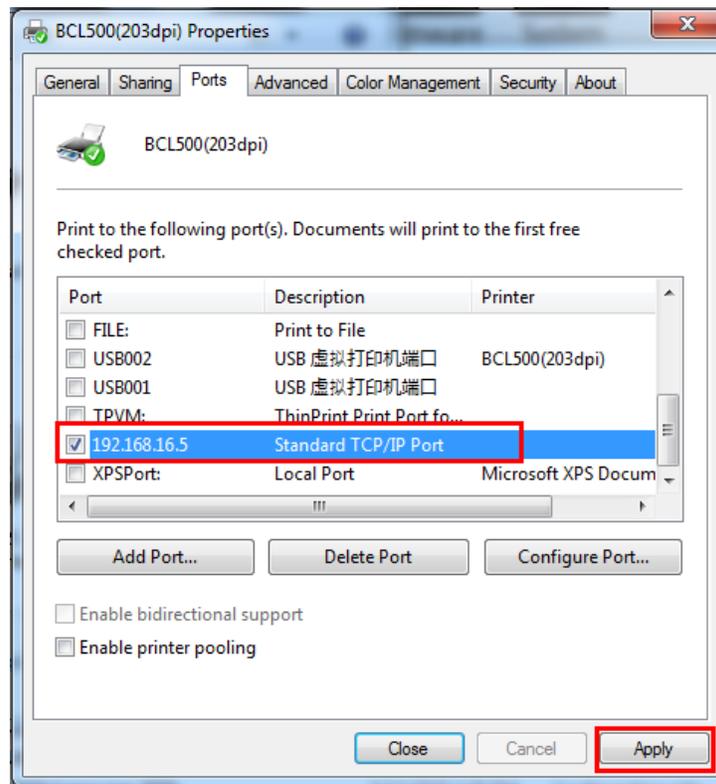
4. On the first screen of the Port Wizard, click "Next". Then, input the IP address.



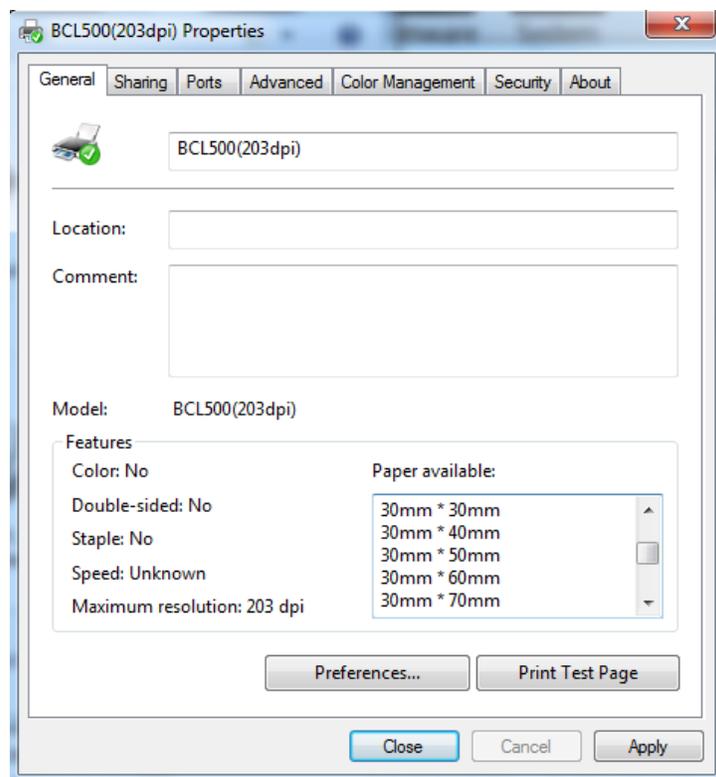
5. Once the port is detected, click "Next".



- Once the connection is established, click "Finish". Return to the "Port" page, choose the newly added port and click "Apply".



- Choose the "General" tab and print a test page to confirm the new settings.



Chapter 10 Troubleshooting

Media Path Issues		
Issue	Cause	Resolution
Printer indicates that the printer body is open (status light stays red).	The printer body was not closed properly.	Open the printer body fully and close the printer again. Make sure you hear the printer body click into place to confirm that it is closed.
	The printer cannot detect that it is closed.	Contact BCL or visit bclinternational.com for further assistance.
Printer indicates that no media is in the printer (status light stays orange).	There is no media in the printer.	Load the proper mead into the body of the printer. Refer to "Chapter 2.2 Media Loading" for more detailed instruction.
	The media sensor is misaligned for the media you are using.	Open the body of the printer, remove the media, and align the sensor properly for the media type you are using. Refer to "Chapter 2.4 Detection" for more detailed instructions on how to properly align the sensor.
	The printer is set for non-continuous media, but continuous media is loaded in the printer.	Recalibrate the printer for the media you are using. Refer to "Chapter 2.6.2 Calibration" for more detailed instruction.
	The media sensor is dirty.	Open the body of the printer and clean the media sensor. Refer to "Chapter 6.1 Media Sensor Maintenance" for more detailed instruction.
	Data corruption has occurred.	Check for updates to the firmware. Refer to "Chapter 7.6 Firmware" for more detailed instruction.

Printing Issues		
Issue	Cause	Resolution
Printhead is overheating.	The printer became too hot from normal use.	The printer will continue to print on its own when it has cooled down.
	The environment the printer is in is too hot.	Move the printer to a cooler environment and allow it to cool down.
Print quality is poor.	The printhead is dirty.	Turn the printer off, give it a few minutes to cool down, then clean the printhead. Refer to "Chapter 4.2 Thermal Printhead Maintenance" for more detailed instruction.
	The brightness/speed levels need to be adjusted.	Go into your driver settings and make the necessary adjustments. Refer to the appropriate chapter for more detailed instruction.

Chapter 11 Specifications

Printing	Printing Method	Direct Thermal
	Resolution	STD 203 dpi, OPT 300 dpi
	Max. Printing Speed	5 ips (203 dpi) / 4 ips (300 dpi)
	Max. Printing Width	108 mm (203 dpi), 106 mm (300 dpi)
	Max. Printing Length	2,286 mm (203 dpi), 1,524 mm (300 dpi)
Memory	RAM	128 MB
	Flash	256 MB
Programming Language		ZPL-II, EPL-II, DPL
Detection	Sensor	Print Frame Open Detect, Paper Out Detect, TPH Over Heating Detect, 2 Fixed Position See-Through Sensor, Full Range Reflective Sensor
Media	Types	Continuous Paper, Gap, Black Mark, Punched Hole Label
	Width	1" (25.4 mm) – 4.65" (118 mm), include the liner
	Thickness	0.002" (60 um) – 0.01" (250 um)
	Media Roll Diameter	0.5" (12.7 mm), 1" (25.4 mm), 1.5" (38 mm)
Software	Driver	Windows 7, 8, 10, Server 2008, 2012, CUPS for Linux, MAC OS 10.15 Catalina, 10.14 Mojave
Resident Fonts	Bitmap fonts	6, 8, 12, 16, 32, OCR A&B. 90°, 180°, 270° rotatable and 10x expandable in horizontal and vertical directions
	TTF fonts	Monotype CG Triumverate™. 0°, 90°, 180°, 270° rotatable

Download Fonts	Bitmap fonts	90°, 180°, 270° rotatable and 10x expandable in horizontal and vertical directions
	Asian fonts	16 x 16, 24 x 24. Traditional Chinese, Simplified Chinese, Japanese, Korean. 90°, 180°, 270° rotatable and 8x expandable in horizontal and vertical directions
	TTF fonts	90°, 180°, 270° rotatable
Barcodes	1D	Code 39, Code 93, EAN 8/13 (add on 2&5), UPC A/E (add on 2&5), I 2 of 5, Codabar, Code 128 (subset A, B, C), EAN 128, MSI, Plessey, Telepen, GS1 DataBar, Standard 2 of 5, Industrial 2 of 5, Code 11, Code 49
	2D	PDF417, Data matrix code, QR code, Micro PDF417, Aztec code
Code Page		850, 852, 437, 860, 863, 865, 857, 861, 862, 855, 866, 737, 851, 869, Windows 1250, 1251, 1252, 1253, 1254, 1255, 1257, UTF-8, UTF-16BE, UTF-16LE, DBCS 932 (JIS), 936 (GBK), 949 (Korean), 950 (BIG5)
Graphics		Resident graphic file types are BMP and PCX, other graphic formats are converted by software download
Interfaces	Standard	USB, Ethernet (BCL 110 only)
Control Panel		Power switch button, FEED button, 2 indicating LEDs

LCD Display		Not supported
RTC Function		Not supported
Power Supply		External AC / DC switching power adapter, AC 100 V - 240 V / DC 24 V / 2 A / 48 W, Peak A
Environment	Operation	41 °F – 122 °F (5 °C – 50 °C) @ 25% to 85% humidity
	Storage	-40 °F – 140 °F (-40 °C – 60 °C) @ 10% to 90% humidity
Physical Characteristics	Dimensions	9.7" L x 8.3" H x 7" W (247 x 210 x 177 mm)
	Weight	3.97 lbs. (1.8 kg)
Options & Accessories		Peeler module, Cutter module, External label roll holder
Agency Approval		CE EMC (EN 55022 Class B), FCC EMC (Class A), CCC, RoHS

Chapter 12 Warranty Information

C&A Marketing, Inc. ("BCL"), as manufacturer of the BCL desktop label printer (including its Hardware, Software and replacement parts, the "Product") warrants to the End-User (as defined below) as follows:

For purposes of this Warranty,

- "End-User" means the original purchaser and user of the Product.
- "Hardware" means the physical Product purchased from BCL.
- "Product" means BCL-branded Hardware, Software, or replacement parts.
- "Software" means any machine-readable instructions used by a processor to perform specific operations on the Product.

Hardware Warranty

The Company warrants the Product against defects in materials and workmanship under normal use for a period of TWO (2) YEAR from the date of retail purchase by the original end-user purchaser ("Warranty Period") with proof of purchase. If a Hardware defect arises and a valid claim is received within the Warranty Period, the Company, at its sole option and to the extent permitted by law, will either (1) repair the Product defect at no charge, using new or refurbished replacement parts, (2) exchange the Product with a Product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original device, or (3) refund the purchase price of the Product. A replacement Product or part thereof shall enjoy the warranty of the original Product for the remainder of the Warranty Period or ninety (90) days from the date of replacement or repair, whichever provides you longer protection. When a Product or part is exchanged, any replacement item becomes your property, while the replaced item becomes the Company's property. Refunds can only be given if the original Product is returned. In any case, End-User is responsible for freight to BCL and all costs and risks associated with this transportation. BCL shall be responsible for return shipment to End-User, unless BCL, in its sole and absolute discretion, determines that the affected Hardware is not defective or is not covered by this warranty, in which case End-User shall be responsible for return shipment. No charge will be made to End-User for warranty repairs if the repairs are covered. BCL shall not be responsible for any damage to or loss of any Software programs, data or removable data storage media, or the restoration or reinstallation of any Software programs or data. Warranty repair shall be performed in a good and workmanlike manner. The repair shall conform in all material respects to the applicable BCL published specification for a period of thirty (30) days following completion of the repair or until the end of the original warranty period, whichever is longer. End-User's sole and exclusive remedy in regard to warranty repair shall be to request BCL to re-perform the non-conforming warranty repair.

Software "as is"

Software is licensed "as is" with no warranty, except that End-User may, for a period of ninety (90) days from when the instance of Software or Hardware is first shipped by BCL or, with proof of purchase or license, from the purchase date whichever is later, obtain if available, releases and technical support from our website.

General

The above warranty provisions may not be transferred by an End-User to anyone else and shall not apply to any Product (i) that has been repaired, tampered with, altered or modified, except by BCL or its authorized repairer providers; (ii) to the extent that in BCL's sole determination the defects or damage result from normal wear and tear, misuse, negligence, improper storage, water or other liquids including contamination with bodily fluids, battery leakage, use of parts or accessories not approved or supplied by BCL including but not limited to the printheads or engine, media, supplies, batteries, and other peripherals, or failure to perform operator handling and scheduled maintenance instructions supplied by BCL; or (iii) that has been subjected to unusual physical or electrical stress, abuse, or accident, or forces, or exposure beyond normal use within the specified operational and environmental parameters set forth in the applicable specification.

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