

Desktop Label Printer User Guide BCL100 / BCL110



In order to operate the label printer, please go to **bclinternational.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 <u>bclinternational.com/pages/drivers</u> 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 <u>https://bclinternational.com/pages/drivers.</u>

- 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 <u>https://bclinternational.com/pages/drivers</u> 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 <u>https://bclinternational.com/pages/drivers</u> 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 <u>bclinternational.com</u>.

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.

Paper Paper Name: $4.00^{\circ}x6.00^{\circ}(10, 16 \text{ cm} \times 15, 24 \text{ cm})$ Paper Format © inch © cm © mm Offset Horizontal: 0.00 inch Vertical: 0.00 inch Preview Rotate Effect BCL 0° 0° 90° $\Pi \text{ inverse}$	Save Pape	one op cale	Speed Dottom Top _Bottom
Paper Name: 4.00"x6.00"(10.16cm x 15.24cm) Custom Paper Format o inch o cm o mm Offset Horizontal: 0.00 → inch Preview Rotate Effect O 0° O 180° Inverse Inverse	© No © To © Sc	one op cale	Bottom Top Bottom
Paper Format Image: Second state st	© To ⊚ Sc	op cale	© Top _Botton
inch	© Sc	cale	
fset vrizontal: 0.00			
View Rotate Effect			
BCL			
 90° □ Inverse ○ 180° □ 			OK
◎ 180°			
© 270° Scale: 100 № %			
Copies			
Copies: 1 Advanced			
Reverse Print Order			

х

Print Method

Compression

Cancel

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

🖶 BCL100(203dpi) Printing F	Preferences	X		
Page Watermark Halftone	e About			
Watermark Path:				
Preview	Size	····		
	Horizontal	Vertical		
	🔘 Left	🔘 Тор		
	Oenter	Ocenter		
	Right	Bottom		
OK Cancel Apply				

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

🚽 BCL100(203dpi) F	rinting Preferences	×
Page Watermark	Halftone About	
Halftone		
		🔘 None
	* A tes:	Disperse
		Cluster
		Error Diffusion
Brightness	0	Dark
	J	
	ОК	Cancel Apply



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.

BCL100(203dpi) Properties	×
General Sharing Ports Advanced Co	olor Management Security About
BCL100(203dpi)	
Location:	
<u>C</u> omment:	
M <u>o</u> del: BCL100(203dpi)	
Features	
Color: No	Paper available:
Double-sided: No	Custom 4.00"x6.00"(10.16cm x 15.24cm)
Staple: No 4.00 x0.00 (10.10cm x 15.24cm)	
Maximum recolution: 202 dai	1.50"x0.50"(3.81cm x 1.27cm) 1.50"x1.00"(3.81cm x 2.54cm)
Maximum resolution: 205 dpl	
Pr <u>e</u> fe	rences Print <u>T</u> est Page
[OK Cancel Apply

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.

e BCL100(203d	pi) Properties		x
General Sharin	g Ports Advanced Co	or Management Security About	
🥪 во	CL100(203dpi)		
Print to the for checked port	ollowing port(s). Documer	nts will print to the first free	
Port	Description	Printer	A
LPT1:	Printer Port		
LPT2:	Printer Port		=
LPT3:	Printer Port		
COM1:	Serial Port		
COM2:	Serial Port		
COM3:	Serial Port		
COM4:	Serial Port		-
Add P	or <u>t</u> <u>D</u> elet	e Port <u>C</u> onfigure Port	
Enable bid	lirectional support		
Enable pri	nter pooling		
·			
		OK Cancel Ag	ply

Port	Description	Printer	A
LPT1:	Printer Port		
LPT2:	Printer Port		E
LPT3:	Printer Port		
COM2:	Serial Port		
COM3:	Serial Port		
COM4·	Serial Port		
COM1:	Serial Port		-
Add P	ort	Delete Port	Configure Port

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".

Setup - BCL_Series_Label_Printer_Windows_Driver v2.7.2.5
Select operation of install Please select the operation as you need.
 Install printer driver Please connect your printer to the PC and turn it on. Uninstall printer driver Uninstall the printer driver and components which printer selected.
Next > Cancel

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

Uninstall - BCL_Series_Label_Printer_Windows_Driver v2.7.2.5 Uninstall printer driver Please select the printer driver name needed to uninstall.	
[Delete all printer drivers and its components BCL 100(203dpi)	BCL_Series_Label_Printer_Windows_Driver Uninstall Image: Constraint of the series of the se
< Back Next >	<u>Y</u> es No

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 damped 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 <u>https://bclinternational.com/pages/utility</u> 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"

Printer Utility V1.0.0.4 (BCL)	
Settings Fonts Sta	Drage Function Test Command Test Firmware System Common ZPL DPL RS-232 Bluetooth Ethernet WIF1
Printer: BCL 100 VISE Vito Configure USB Pc Printer Information Version:	After Printed:
V10.03.04 Serial Number:	After TPH Close:
Cutting Counter:	Sensor Select: Image: Comparison of the select of the se
Get Printer Information	Tear Off: -1.20 dots Print Speed: ips Density: 0 to 30
Printer Status	
Get Status	Load Save Set Get

7.2 Settings

Click "Settings", then choose the printer model.

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

Printer Utility V1.0.0.4 (BCL)	
🌣 Aa 🛛	
Settings Fonts Sto	brage Function lest Command lest Firmware System
Interface Printer: BCL 100	Common ZPL DPL RS-232 Bluetooth Ethernet WIFI
Ito Configure USB Pc USB COM LPT ETH V10.03.04 Serial Number:	After Printed: After Power On: After TPH Close: Protocol:
	Paper Type:
	Sensor Select:
Cutting Counter:	Buzzer Volume:
	Maximum Length: mm
Mileage:	Tear Off: -120 ~ +120 dots
m	Print Speed:
Get Printer Information	Density: 0 to 30
Printer Status	
	Load Save Set Get
Get Status	

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.

Printer Utility V1.0.0.4 (BCL)		
Settings Equts St	orage Function Test Command Test Firmware System	
Interface	Common ZPL DPL RS-232 Bluetooth Ethernet WIFI	
Printer: BCL 100 V	DHCP: OFF	
USB Ito Configure USB Pc	IP Address: ON	
Printer Information	Subnet Mask:	
Version:	Default Gateway:	
Serial Number:	Mac address:	
BCL 100 19470 356		
Cutting Counter: 1 Mileage:		
287.45 m		
Get Printer Information		
Printer Status		
Normal!		
	Load Save Set Get	
Get Status		

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.

Storage: Select Font:	
FLASH 🔻	Download
Free engravitio 401 470Pulless engrap	
Free space: 119,401,472b;Uses spaceb.	
Storage Fonts File Name	Input test text:(Length<256)
Delete	Print Text
Delete All Fonts	
Storage: Select Font:	
FLASH	v\Fonts\Fonts\CYR.ttf Download
Downloading: 167 KB/733KB.	
Free space:2.048.000B-Lises space24.576B	

Select the downloaded font file, then enter test text into the text box and click "Print Test" to view.

Storage: Select Font: FLASH C:\Users\Administrator Downloading: 788 KB/788KB.	\Desktop\Fonts\Fonts\cour.ttf Download
Free space:1,069,0568;Uses space1,003,5 Storage Fonts File Name FLASH COUR.TTF FLASH CYR.TTF	Input test text:(Length<256)
Delete Delete All Fonts	Printable Width: 30 (10-108)mm Printable Height: 30 (10-210)mm

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.

Download File		
File Type: Graphics	Magnification: 1.0	•
File Names		
File Name:		Download
Free space: 119, 401, 472B; Uses space	286,790,6568.	
Graphics	Label Form	Auto Label Form
List All Graphics	List All Forms	List Auto Form
Print Selected Graphic	Print Selected Form	Print Auto Form
Delete Selected Graphic	Delete Selected Form	Delete Auto Form
Delete All Graphics	Delete All Forms	Enable Auto Form
B 51		
File Type: Graphics	Magnification: 1.0	
File Name:		Download
Free space: 119, 401, 472B; Uses space?	286,790,656B.	

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.

Download File		
File Type: Graphics 🔹	Magnification: 1.0	▼
File Name: C:\Users\Administrator\D	esktop\1.bmp	Download
Free space:286,790,656B;Uses space	e119,401,472B.	
Graphics	Label Form	Auto Label Form
ÎÏ£.bmp		
1.bmp		
List All Graphics	List All Forms	List Auto Form
Print Selected Graphic	Print Selected Form	Print Auto Form
Delete Selected Graphic	Delete Selected Form	Delete Auto Form
Delete All Graphics	Delete All Forms	Enable Auto Form

7.5 Function Test

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

Printer Utility V1.0.0.4 (BCL)			
Settings Fonts Storag		> CMD >	Svetam
Interface Printer: BCL 100 V USB V Ito Configure USB PC	Media Sensor Calibration	Restore Factory Default	System
Printer Information Version: V10.03.04	Configuration Page	Media Sense Waveform Printing	
Serial Number: BCL 10019470356	Pattern Print Testing	Advance Media Sensor Calibration	
Cutting Counter:	Cutter Cut Testing	Buzzer Function Testing	
Mileage: 287.45 m Get Printer Information			
Printer Status Normal			
Get Status			

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".

Printer Utility V1.0.0.4 (BCL)				
🌣 Aa		> CMD >_		
Interface	Check for firmware update		System	
Printer: BCL 100 -	Printer firmware current version:	V10.03.02		
USB 🔻 Ito Configure USB Pc	Check for firmware updat	te		
Printer Information	Printer Firmware Update			
Version:	File Name:			
V10.03.02			Upgrade	
Serial Number:				
Cutting Counter:				
Mileage:		Check for firmware update		
m		Printer firmware current version:	V10.03.02	
Get Printer Information		Charle for formula undate	There is a new versions V10.02	02
Printer Status		Check for firmware update	There is a new version: V10.03	.03
		Check for firmware update		
Get Status		There is a	new version: V10.03,03	Upgrade
			Go now	
		C		

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





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.

		Check for firmware update
	V10.03.02	Printer firmware current version:
		Check for firmware update
		Printer Firmware Update
		ile Name:
Upgrade	10.03.03.ext4	C:\Users\Administrator\Desktop\BCL_V
Upgrad	0.03.03.ext4	C: \Users \Administrator \Desktop \BCL_V

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 <u>https://bclinternational.com/pages/bartender</u> 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".

BarTender Setup
BarTender 2019 By seagull scientific
Welcome to BarTender 2019 R8
Select your options below and click Install to get started with the most trusted software for labels, barcodes and more.
✓ I accept the terms of the License Agreement
Specify advanced installation options
< <u>B</u> ack Install Cancel

- 3. After installation, click "Finish".
- 4. Enter your Product Key Code to activate your license, then click "Next".

BarTender Lic	ensing Wizard
Activate New L No licenses we	icense or Find an Existing License re found on your network.
	To activate a new license, <u>e</u> nter your Product Key Code (PKC):
	Search for Existing License
	< <u>B</u> ack <u>N</u> ext > Close Help

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".

New Document Wi	zard			
Stock Selection				
A Stock specifies the si position of the items or Stock or specify your o	ize of the page, and the size, number, an n the page. You may select a predefined own custom settings.	d		
Specify Custom S	ettings			
Ouse a Predefined	Stock			
⊆ategory:		-]	
Stoc <u>k</u> Name;		~		
	4	Ŧ		
			< Back Next > Finish Cancel]

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

New Document Wizard	×
Items Per Page Specify the characteristics of your media.	
Most media has only a single item (label, card, tag, etc.) per page of stock. Some media, however, are more complex and have multiple items on a page	
Single item per page	
Multiple columns and/or rows of items per page	
Rows: 1 A	
<u>C</u> olumns: 1	
<	Back Next > Finish Cancel

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

New Doc	ument Wi	zard	
Side Edges Specify th	e characte	ristics of the sides of your media.	
Does your s the edge of	tock have the item a	a small amount of unused material between nd the edge of the page?	Preview:
	does have loes not used Area:	some unused material on the sides	
Left: <u>Rig</u> ht:	0.05	in	
			Template Size: 3.998 x 4 in
			< Back Next > Einish Cancel

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

New Document Wizard	
Printed Item Shape Specify the shape of your items.	
	Preview:
Image: Rectangle Image: Rectangle	
	Template Size: 3.998 x 4 in

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



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

New Document Wizard	×
Template Background Select a picture or color for your background.	
Background Features Color Allows you to specify a fill color to use for the background. Dicture Allows you to use a picture for the background. Iemplate Image Allows you to display a picture of what you want your completed design to look like behind the design area. You can then design on top of that picture, making it easier to position and size objects.	Preview:
	Template Size: 3.9 x 6 in
	< Back Next > Finish Cancel

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

New Document Wiz	zard	X
Finished!		
When you press Finish created using the setti Review:	, a new BarTender document will be ngs that you specified.	Preview:
Starting Document: Printer: Template Size:	Blank BCL 100(203dpi) 3.9 x 6 in	
		Template Size: 3.9 x 6 in
		< Back Next > Finish Cancel

8.3.2 Label Edit

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

Select Barcode		×
Select Barcode General Purpose Disc / CD / DVD GS1 (by Application) GS1 (by Symbology) Health Care Pharmaceutical Postal / Shipping	Search	
All Symbologies (100)	Preview: Code 128 Preview: Code 128 12345678 Also known as USS Code 128 Select Cancel Hel	× .

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.

Barcode Properties					×
Image: Symbology and Size	Symbology: Dimensions X Dimension: Density:	Code 128	<u>R</u> atio; <u>H</u> eight:	Auto	▼ in
Text Format Border Position Tata Sources 12345678	Symbology Spe Check Digit HIBC SS1-128 (U SS1 A	ctific Options CC/EAN - 128) pplication Identifier Data So	C <u>o</u> de Set: urce <u>W</u> izard	Auto	•
	Text Encoding:	US, Western Europe (7-8i	t ASCII)	•	
	<u>C</u> olor:	•		Prin <u>t</u> Meth	iod
			C	Close	Help

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 <u>bclinternational.com/pages/drivers</u>).

- 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 <u>bclinternational.com/pages/drivers</u>).

- 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.

Printer Utility V1.0.0.0 (BCL)	
Settings Fonts Std	orage Function Test Command Test Firmware System
Interface Printer: BCL 500 USB ito Configure USB Pc	Common ZPL DPL RS-232 Ethernet WIFI Smart print variables Ribbon Mode:
Printer Information Version: Serial Number:	After Power On: After TPH Close: Protocol: Paper Type:
Cutting Counter:	Sensor Select:
Mileage: m Get Printer Information	Tear Off: -120 ~ +120 dots Print Speed: ips Density: 0 to 30
Printer Status	
Get Status	Load Save Set Get

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

Printer Utility V1.0.0.0 (BCL)			
🌣 Aa 🛛		> CMD >_	
Settings Fonts Sto	brage Function Test	Command rest Firmware System	
Printer: BCL500	Common ZPL DPL RS-23	ON ON	
USB - Ito Configure USB Pc	IP Address:	10 0 16 168	
Printer Information	Subnet Mask:	255 255 255 0	
Version:	Default Gateway:		
Serial Number:	Mac address:	00 : 1A : 7D : DA : 71 : 54	
Cutting Counter: Mileage: Get Printer Information Printer Status	Load Save	Set	Get
Get Status	RTC Setting		

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

Printer Utility V1.0.0.0 (BCL)		
Settings Fonts Stor	Image: Function Test CMD Image: Function Test Image: Function Test Image: Function Test Image: Function Test	
Interface Printer: BCL500 USB Ito Configure USB Pc	Media Sensor Calibration Restore Factory Default	
Printer Information Version:	Configuration Page Media Sense Waveform Printing	
Serial Number:	Pattern Print Testing Advance Media Sensor Calibration	
Cutting Counter:	Cutter Cut Testing Buzzer Function Testing	
Mileage:		
Get Printer Information		
Printer Status		
Get Status		

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

Printer Utility V1.0.0.0 (BCL)			_ _ ×
Settings Fonts Sta	Function Test	Command Test Firmware System	
Interface	Common ZPL DPL RS-232	Ethernet WIFI Smart print variables	
Printer: BCL300 V	DHCP:	ON 👻	
ETH Config	IP Address:	10 0 16 186	
COM symmetric COM	Subnet Mask:	255 255 0	
ETH	Default Gateway:	10 0 16 1	
Serial Number:	Mac address:	00 . 1A . 7D . DA . 71 . 54	
Cutting Counter:			
Mileage:			
Get Printer Information			
Printer Status			
	Load Save	Set	Get
Get Status	RTC Setting		
	1		

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

STCP/IP Cont	fig			x
IP Address:	10	0	16	168
Port:	9100			
ОК			Canc	el

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

Printer Utility V1.0.0.0 (BCL)		
Settings Fonts Sta	time function Test CMD System System System	
Interface Printer: BCL500 V ETH V Config	Media Sensor Calibration Restore Factory Default	
Printer Information Version:	Configuration Page Media Sense Waveform Printing	
Serial Number:	Pattern Print Testing Advance Media Sensor Calibration	
Cutting Counter:	Cutter Cut Testing Buzzer Function Testing	
Mileage:		
Get Printer Information Printer Status		
Get Status		

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".

🖶 BCL500(203a	lpi) Properties		a and Second	x
General Sharin	ng Ports Advanc	ed Color Managemen	t Security About	
₩ В	CL500(203dpi)			_
Print to the f checked por	ollowing port(s). De t.	ocuments will print to	the first free	
Port	Description	Printer		-
LPT1:	Printer Port			
LPT2:	Printer Port			=
LPT3:	Printer Port			
COM1:	Serial Port			
COM2:	Serial Port			
COM3:	Serial Port			
COM4:	Serial Port			-
Add F	Port	Delete Port	Configure Port	
Enable bio	directional support			
Enable pri	nter pooling			
		ОК	Cancel	pply

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

Available port types: Local Port Standard TCP/IP Port ThinPrint Print Port Monitor for VMWare	Printer Ports
Local Port Standard TCP/IP Port ThinPrint Print Port Monitor for VMWare	Available port types:
Standard TCP/IP Port ThinPrint Print Port Monitor for VMWare	Local Port
ThinPrint Print Port Monitor for VMWare	Standard TCP/IP Port
	ThinPrint Print Port Monitor for VMWare
New Port Type New Port Cancel	New Port Type New Port Cancel

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



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

d Standard T	CP/IP Printer Port Wizard				
Windows	Windows is detecting the TCP/IP port and will move to the next page when finished.				
Detecti Window	ng the TCP/IP port				
Windo	ws will automatically move to the next page when the detection is done.				
	$\overline{\mathbf{Q}}$				
	< Back Next > Cancel				

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

🖶 BCL500(203d	pi) Propertie	s	Acres Service	an and Proven	×
General Sharin	g Ports A	dvanced Col	or Manageme	nt Security About	
🥪 вс	CL500(203dpi)			
Print to the fo	ollowing port	t(s). Documen	ts will print t	to the first free	
Port	Description	ı	Printer		*
COM4:	Serial Port Print to File	2			-
USB002	USB 虚拟打	印机端口	BCL500(203	3dpi)	
USB001	USB 虚拟打 This Drint D	印机端口 rint Dort fo			=
10.0.16	Standard T	CP/IP Port			
XPSPort:	Local Port		Microsoft)	XPS Document Writer	-
Add P	ort	Delete	Port	Configure Port	
Enable bid	irectional su	pport			
Enable prir	nter pooling				
		_			
			Close	Cancel	oply

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

nt BCL500(203dp	oi) Properties
General Sharing	g Ports Advanced Color Management Security About
	BCL500(203dpi)
Location:	
Comment:	
Model:	BCL500(203dpi)
Features	Den en susilekter
Double-side	Paper available:
Staple: No	30mm * 30mm
Speed: Unkr	30mm * 50mm
Maximum r	resolution: 203 dpi
	Preferences Print Test Page
	Close Cancel Apply

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.

Printer Utility V1.0.0.0 (BCL)		
Settings Eants St	Image: Function Test CMD Function Test Command Test	
Interface Printer: BCL500 V USB V (to Configure USB Pc	Common [2PL DPL RS-232 Ethernet WIFI Smart print variables Ribbon Mode:	
Printer Information Version:	After Power On:	
Serial Number:	Protocol: Paper Type: Sensor Select:	
Cutting Counter: Mileage:	Buzzer Volume: mm Maximum Length: mm Tear Off: -120 ~ +120 dots	
Get Printer Information	Print Speed: ps Density: 0 to 30	
Printer Status		~
Get Status	RTC Setting	Ger

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.

Printer Utility V1.0.0.0 (BCL)			
🖸 Aa 🗎		> CMD	
نا تنتا لنا	العنا ال		
Settings Fonts Stora	ige Function lest (COMMAND LEST FIRMWA	re System
Printer: BCL500 V	DHCP:	OFF -	
USB 🔻 Ito Configure USB Pc	IP Address:	192 168 16 5	
Printer Information	Subnet Mask:	255 255 255 0	
Version:	Default Gateway:	192 168 16 1	
Serial Number:	Mac address:	00 : 1A : 7D : DA : 71	. 54
Cutting Counters			
Cuturing Counter:			
Mileage:			
m			
Get Printer Information			
Printer Status			
	Load Save		Set Get
Get Status	RTC Setting		

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

Printer Utility V1.0.0.0 (BCL)		
	Eucrope Function Text Command Text Eignmung Suctorn	
Jetungs Tonts Su	Common 70 DD DS 322 Ethernet WTET Smart arist unrighted	
Printer: BCL500 V		
	Ribbon Mode:	
EIH Coning	After Printed: Tear off	
Printer Information	After Power On: None	
Version:	After TPH Close:	
	Protocol:	
Serial Number:	Paper Type:	
	Sensor Select:	
	Buzzer Volume: Disable	
Cutting Counter:	Maximum Langtha 500 mm	
Mileage:	Maximum Length:	
m	Tear Off: 0 -120 ~ +120 dots	
	Print Speed: print Speed:	
Get Printer Information	Density: 15 0 to 30	
Printer Status		
		'
	Load Save Set	Get
Get Status	RTC Setting	

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

TCP/IP Cont	fig X	
IP Address:	192 168 16 5	
Port:	9100	
OK Cancel		

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

Printer Utility V1.0.0.0 (BCL)		
Settings Fonts Stor	and a provide the second seco	
Interface Printer: BCL500 ETH Config	Media Sensor Calibration Restore Factory Default	
Printer Information Version:	Configuration Page Media Sense Waveform Printing	
Serial Number:	Pattern Print Testing Advance Media Sensor Calibration	
Cutting Counter:	Cutter Cut Testing Buzzer Function Testing	
Mileage:		
Get Printer Information		
Printer Status		
Get Status		

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".

e BCL500(203d	pi) Properties	Real Design and Property	×		
General Sharin	g Ports Advanced Col	or Management Security About			
BCL500(203dpi)					
Print to the fo	Print to the following port(s). Documents will print to the first free checked port.				
Port	Description	Printer	<u>^</u>		
E LPT1:	Printer Port				
LPT2:	Printer Port		=		
E LPT3:	Printer Port				
COM1:	Serial Port				
COM2:	Serial Port				
COM3:	Serial Port				
COM4:	Serial Port		-		
Add P	ort Delete	Port Configure Port			
Enable bid	irectional support				
Enable priv	nter pooling				
Enable pri	iter pooling				
	C	OK Cancel	Apply		

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

Printer Ports
Available port types:
Local Port
Standard TCP/IP Port ThinPrint Print Port Monitor for VMWare
New Port Type New Port Cancel

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".

🖶 BCL500(203dpi) Propertie		×		
General Sharing Ports /	Advanced Color Manageme	nt Security About		
BCL500(203dpi)				
Print to the following por checked port.	t(s). Documents will print t	to the first free		
Port	Description	Printer ^		
FILE: USB002 USB001 TPVM:	Print to File USB 虚拟打印机端口 USB 虚拟打印机端口 ThinPrint Print Port fo	BCL500(203dpi)		
192.168.16.5	Standard TCP/IP Port	E		
XPSPort:	Local Port	Microsoft XPS Docum 🖕		
•	III	•		
Add Port	Delete Port	Configure Port		
Enable bidirectional su	pport			
	Close	Cancel Apply		

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

General	Sharing	Porte	Advanced	Color Manageme	ent Security About]
aonorai	Shanny	1 0115	Auvanceu	COIOL Manageme	ent Security About	
		BCL500	(203dpi)			
Locati	on:					
Comm	nent:					
Model	:	BCL500((203dpi)			
Feat	ures					
Cole	or: No			Paper avai	lable:	
	ible-side	d: No		30mm * 3	0mm	*
Dou	ole: No			30mm * 4 30mm * 5	0mm i0mm	
Dou Stap				30mm * 6	i0mm	
Dou Stap Spe	ed: Unkn	own				
Dou Stap Spec Max	ed: Unkn timum re	own solution	: 203 dpi	30mm * 7	'0mm	-
Dou Stap Spe Max	ed: Unkn imum re	own solution	: 203 dpi	30mm * 7	0mm Print Test Pi	₹
Dou Stap Spec Max	ed: Unkn iimum re	own solution	e: 203 dpi	30mm * 7	0mm Print Test Pa	

Chapter 10 Troubleshooting

lssue	Media Path Issues 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.

lssue	Printing Issues 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	Турез	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.

EXCEPT FOR THE EXPRESS WARRANTIES STATED ABOVE, BCL DISCLAIMS ALL WARRANTIES AND CONDITIONS ON HARDWARE, SOFTWARE OR WARRANTY REPAIR FURNISHED, INCLUDING ALL IMPLIED TERMS, CONDITIONS, AND WARRANTIES OF MERCHANTABILITY, SATISFACTORY QUALITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR USE OR PURPOSE AND THAT SOFTWARE, SOLUTION, OR WARRANTY REPAIR WILL MEET YOUR REQUIREMENTS, THAT THE SOFTWARE OR THE PROVISION OF WARRANTY REPAIR WILL BE UNINTERRUPTED, PRIVATE, TIMELY, SECURE, ACCURATE, OR ERROR-FREE, THAT DEFECTS OR ERRORS IN SOFTWARE WILL BE CORRECTED, OR THAT HARDWARE OR SOFTWARE WILL BE COMPATIBLE WITH FUTURE PRODUCTS OR SOFTWARE VERSIONS OR INTEROPERATE WITH THIRD PARTY HARDWARE OR SOFTWARE. THE REMEDY SET FORTH IN THIS HARDWARE WARRANTY SECTION ABOVE IS END-USER'S SOLE AND EXCLUSIVE REMEDY FOR WARRANTY CLAIMS. AND IS EXPRESSLY IN LIEU OF ALL OTHER REMEDIES THAT MAY BE AVAILABLE TO END-USER AT LAW OR IN EQUITY. Some jurisdictions do not allow the exclusion or limitation of implied warranties, so the above limitation or exclusion may not apply to the particular End-User.

BCL SHALL NOT UNDER ANY CIRCUMSTANCES WHATSOEVER BE LIABLE TO ANY END-USER OR ANY THIRD PARTY FOR LOSS OF PROFITS (DIRECT OR INDIRECT), ANY DESTRUCTION OR LOSS OF DATA (DIRECT OR INDIRECT), DIMINUTION OF GOOD WILL, OR ANY SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES WHATSOEVER WITH RESPECT TO ANY CLAIM IN CONNECTION WITH BCL PRODUCTS. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to the particular End User.

Any warranty claims shall be made to:

C&A Marketing, Inc. 114 Tived Lane East Edison, NJ 08837 Attention: Warranty Claims



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