

# LX4000e COLOR LABEL PRINTER User's Manual

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#### **Printing History**

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

For Users in the United States: This product is intended to be supplied by a UL listed Direct Plug-In

Power Supply marked "Class 2" or a UL listed ITE Power Supply marked "LPS" with output rated 12VDC, 5A or higher. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Use of shielded cables is required to comply with the Class A limits of Part 15 of the FCC Rules. You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate and/or obtain warranty service for this equipment.

**For Users in Canada:** This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the Radio Interference Regulations of the Canadian Department of Communications. Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

**Product Disposal:** Do not dispose of the Printer or supplies in the same manner as normal household waste. Consult your local authorities for disposal and recycling options.



#### ! WARNING !

THE PRINT AREA CONTAINS HAZARDOUS MOVING PARTS. KEEP FINGERS AND OTHER BODY PARTS AWAY.



#### ! CAUTION !

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE EXTERIOR PANELS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. OPERATE THE UNIT WITH ONLY THE PROPER ELECTRICAL SPECIFICATIONS AS LABELED ON THE PRINTER AND AC ADAPTER.



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# Section 1: Getting Started

#### THANK YOU...

...for choosing an LX4000e Color Label Printer. The LX4000e Printer will print razor-sharp text and barcodes, vibrant colours, and even stunning photo-realistic photographs directly onto rolls of labels, card stock, and a variety of other approved media.

This User's Manual is your complete step-by-step guide to quickly and easily setting up and printing with your new Color Label Printer!

### 1A. Choosing a Good Location

- 5. Place the Printer on a flat surface in a location with adequate air circulation to prevent internal heat build-up.
- 6. Do not place the Printer near heat sources such as radiators or air ducts or in a place subject to direct sunlight, excessive dust, mechanical vibration, or shock.
- 7. Allow for adequate clearance in front of the Printer to accommodate the printed label stock as it is leaving the Printer to avoid the possibility of binding or jamming of the label stock.
- 8. Allow for adequate overhead and left-side clearance for opening the top cover to allow easy access to the label stock and ink cartridge. The Printer will require 24 cm (9.5 ") of additional space on the left side to completely open the cover (Total = 26.75" or 68 cm). The Printer will require an additional 40.4 cm (15.9") of overhead space to open the cover (Total = 25" or 63.5 cm).

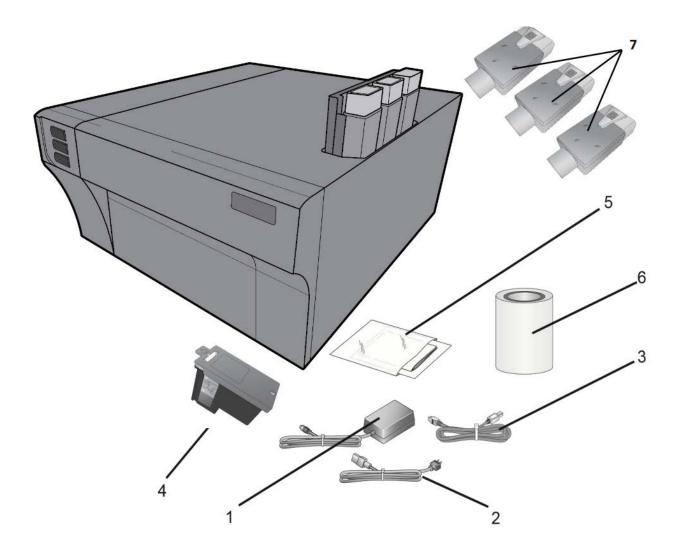


### 1B. Unpacking and Inspection

While unpacking your Printer, inspect the carton to ensure that no damage has occurred during shipping. Make sure that all supplied accessories are included with your unit. The following items are included in the supply box:

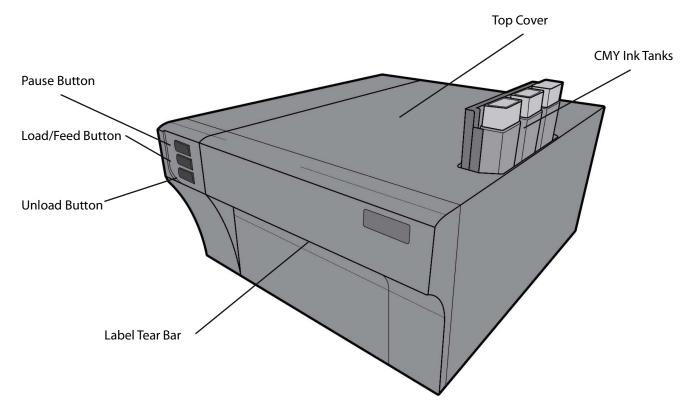
- 1. Power Adapter
- 2. Separate Power Cord
- 3. 2 m USB Cable (If other USB cable is used, it must be 2 m) or less.)
- 4. Print Head
- 5. Warranty Statement and Registration Card
- 6. Starter Roll of High Gloss Label Stock
- 7. Cyan, Magenta and Yellow Ink Tanks

Save the carton and packing materials. They will come in handy when transporting the Printer.





### 1C. Identifying the Parts



This illustration shows the front of the Printer with its control buttons and LED indicator lights.

The **Pause Button** is pressed to pause a job to allow for loading of label stock and ink cartridges. The Printer pauses after the printing of the current label has finished. The Pause LED will illuminate when the Printer is paused.

The Power LED indicates that the Printer is on and ready to receive print jobs.

The Load/Feed Button is pressed in order to load label stock if the Printer does not automatically detect the stock. When stock is loaded each press of the button will cause one label to be fed through the Printer.

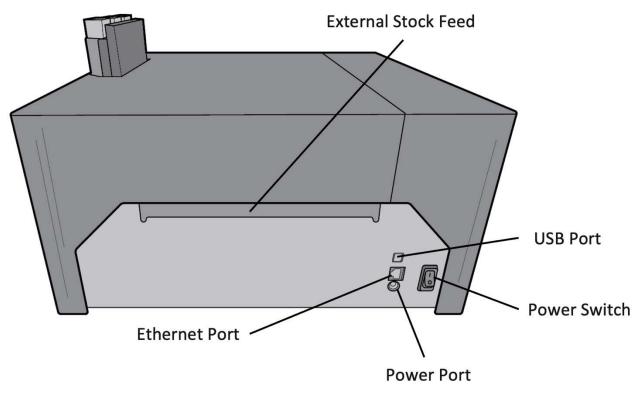
The Ink Low LED will illuminate when a cartridge has 10% or less of its ink remaining.

The **Unload Button** will unload the installed label stock by reversing it through the Printer. Make sure to tear off the printed labels before pressing the Unload Button.

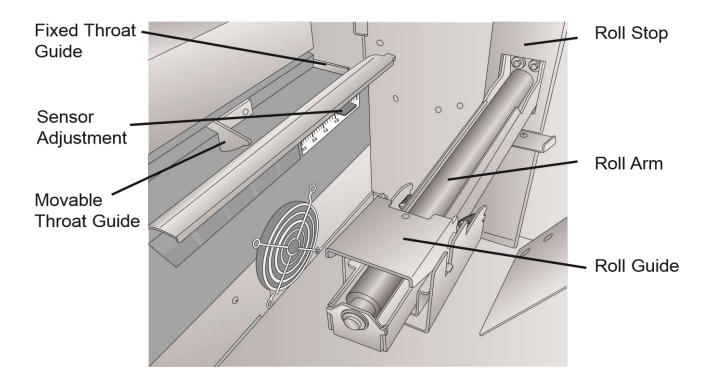
The **Label Tear Bar** is a serrated edge for conveniently tearing your finished labels from the Printer. The Printer comes with a white tear bar guard. For smoother label feeding, leave the guard in place during printing. When you are ready to tear off a label, remove the guard, tear off the label and replace the guard.



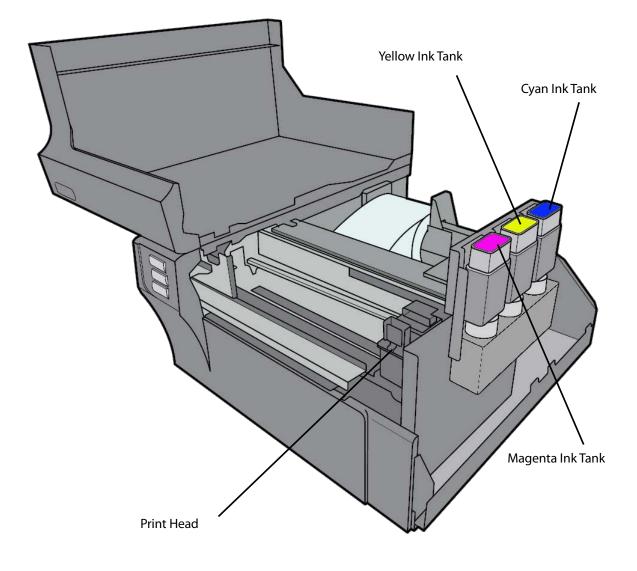
This illustration shows the input ports and power switch found on the rear panel of the Printer.



The next three illustrations show the interior of the Printer.



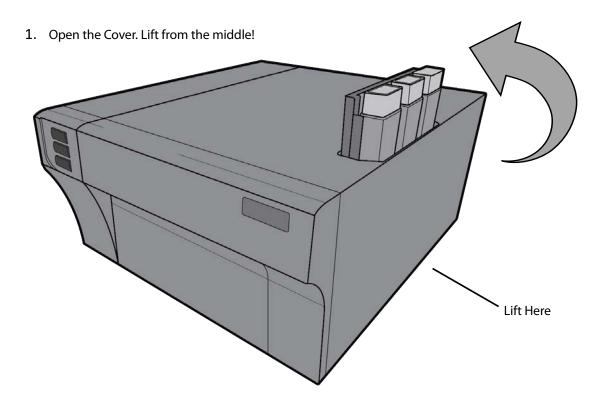




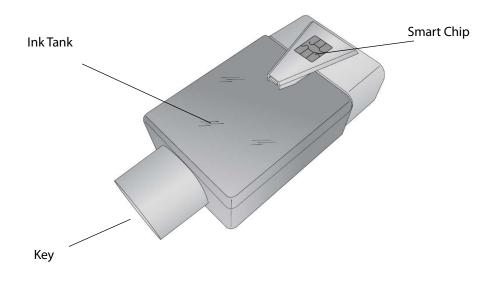


### 1D. Install the Ink Tanks

Install the Ink Tanks before using the Printer for the first time. When using the Printer for the first time Ink Tanks should be installed before the printhead is installed.

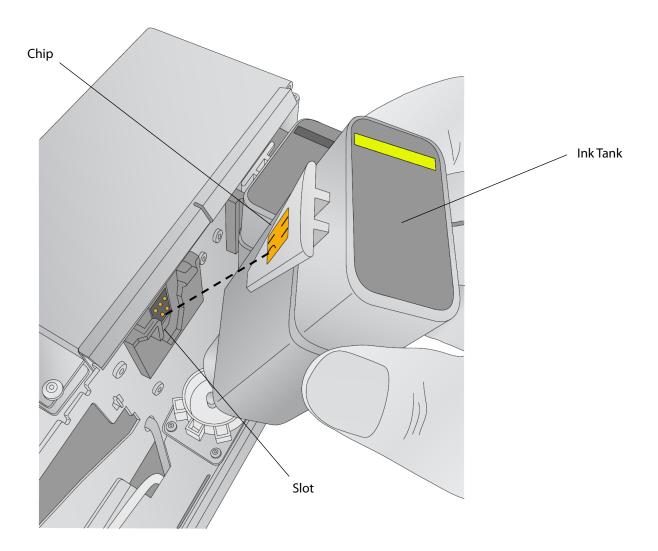


2. Locate a Cyan, Magenta or Yellow Ink tank. It doesn't matter which tank you install first. Each tank is keyed at the bottom to only fit in one slot. There is also a chip on the tank that identifies the colour and tracks ink remaining.



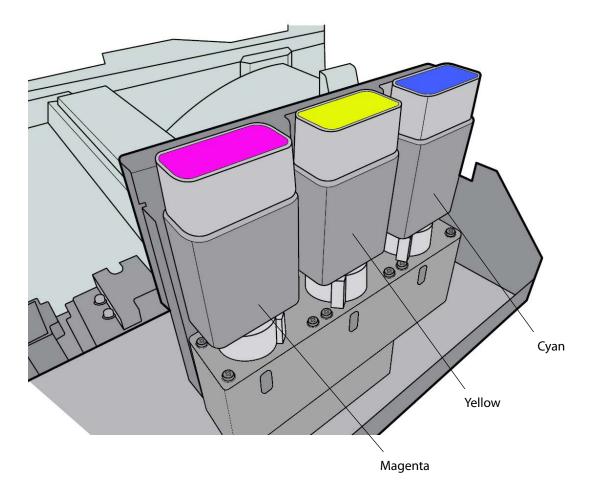


3. Match the ink tank colour with the sticker behind the corresponding slot on inside the Printer. Hook the chip to the slot.





4. Repeat the process for the remaining colours.



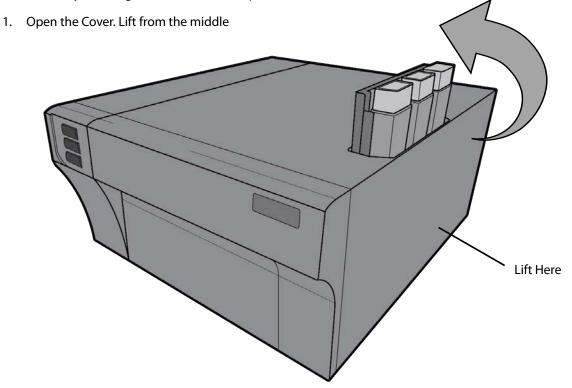


### 1E. Install the Print Head

You will need to install a print head before you use the Printer the first time. After that, you should replace your printhead when you start to notice quality problems. The print head is warrantied for four ink tank changes of any one colour: Cyan, Magenta, or Yellow.

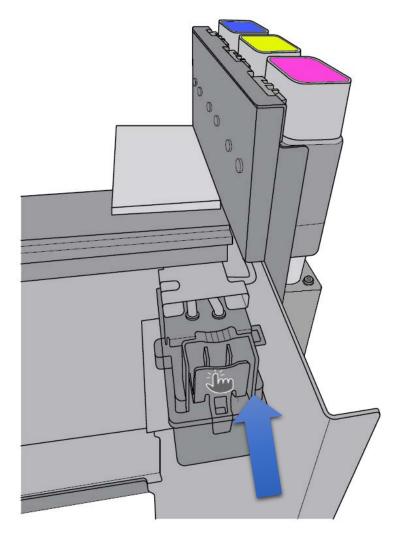
Note: Please ensure that the ink tanks are installed before replacing the print head.

**Recommended Cleaning between Print head Changes.** We recommend cleaning the copper contacts on the cartridge carrier each time you change Print heads. See step 6 below.

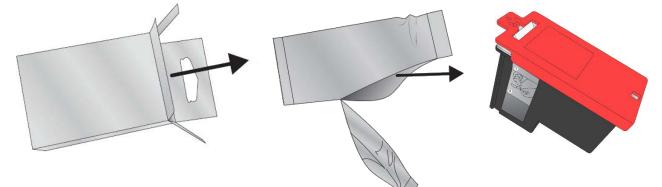




2. Press or pinch the tab on the front of the cartridge holder.

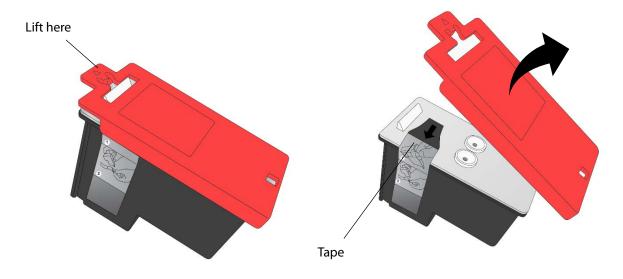


3. Locate a new cartridge and remove it from its packaging. Remove the foil outer package.

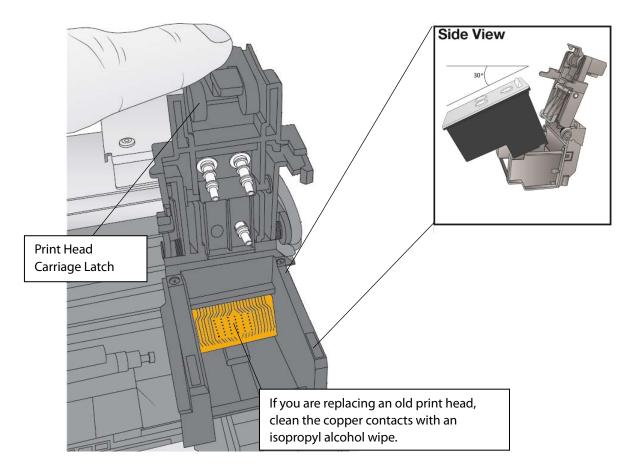




4. Remove and discard the red protection cap and peel off the tape covering the nozzle.

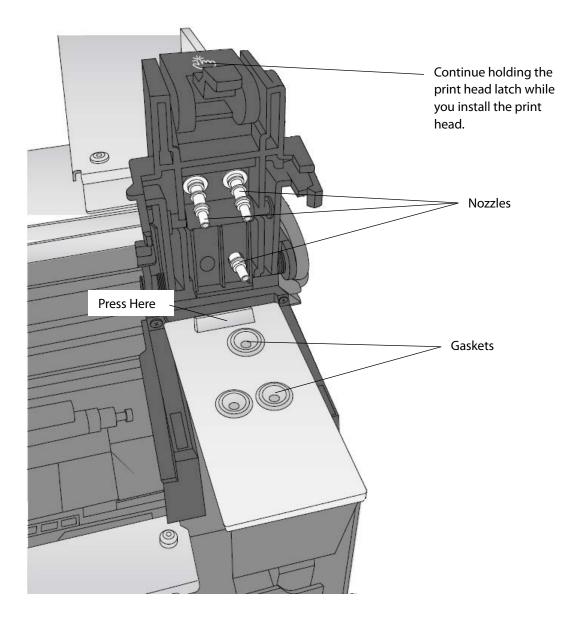


5. Hold open the print head carriage latch while you insert the print head. Note: When installing the print head, tilt the cartridge at a slight backward angle of approximately 30 degrees.



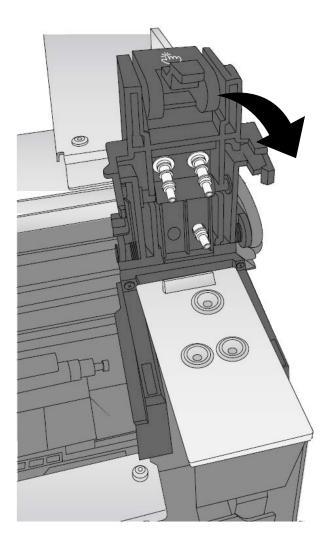


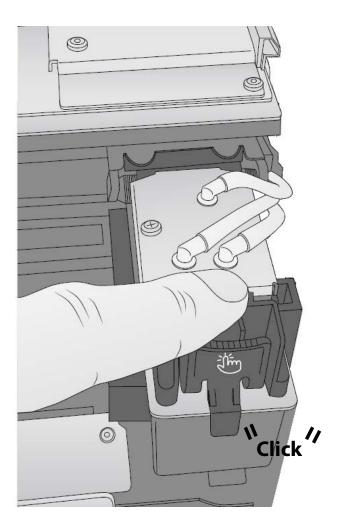
6. Press down firmly near the back of the print head to ensure good contact and proper alignment when you close the lid.





7. Close the lid on the print head by lightly pressing down from the top until you hear a click!







### 1F. Ethernet Connection Information (PC Only)

During the initial software setup, you may connect via USB or Ethernet. Depending on what you choose, different options will appear in the setup application. The instructions below explain how to install via Ethernet. Before continuing, connect only the Ethernet cable to your printer. (You cannot connect both the USB cable and Ethernet)



1. If you choose Ethernet, the installer will automatically search your network for the printer using the most common IP address range for simple networks (10.10.10.1-254 and 192.168.1.1-254). The IP address is the unique identifier that your network will automatically assign to printer when you connect it to your router or wall jack.

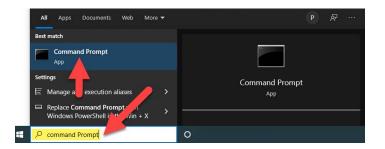
etwoi	rk Devicer	Static IP Via USB
_	Scanning 1016 IP Addresses 0 / 1016 Online devices found.	Cancel
_	No Network Devices F	ound
	Note: The USB cable must be removed to use	Network functionality.

2. If no printers are found, you will be able to adjust the IP address you are searching for – IP Range to Sweep. In this example, we are searching for 10.10.8-11.1-254. It is searching for 1,016 IP addresses. There are 4 digits to any IP address that can equal 0-254. The dash in the 3<sup>rd</sup> and 4<sup>th</sup> digit indicates that the installer will search between 8 and 11. This means it will search for 8, 9, 10, or 11. In the 4<sup>th</sup> digit, the installer will search for 1 through 254.





3. If you don't know where to search, your own computer can guide you if it is connected to the same network as your printer. Search for "Command Prompt" on your Windows Search Bar. Click it to open.



4. Now type ipconfig on the prompt and press Enter.



5. Look for your IPv4 or IPv6 address. In this example, the address is 10.10.10.123. This is my computers IP address. It tells me that we are using a 10.10. network, so the Eddie printer is probably on the same network. Now I can edit my IP Range to Sweep to include values in the 10.10.10.1-254 range. Depending on the number of devices on your network, you may need to expand that range. Click Search again.

IPv6 Address.       : fd67:25a9:3ca1:45c8:3d7:28ac:282:d89b         Temporary IPv6 Address.       : fd67:25a9:3ca1:45c8:1665:c6b6:3c8b:b718         Temporary IPv6 Address.       : fd67:25a9:3ca1:45c8:1665:b718         Temporary IPv6 Address.       : fd67:25a9:3ca1:45c8:4db:5c8b7:31f         Temporary IPv6 Address.       : fd67:25a9:3ca1:45c8:8db:3bd:5db6:4db6:45af         Temporary IPv6 Address.       : fd67:25a9:3ca1:45c8:8db:3bd:5db6:45db6:45af         Temporary IPv6 Address.       : fd67:25a9:3ca1:45c8:1d8:5bd8:2db6:45db6:45af         Temporary IPv6 Address.       : fd67:25a9:3ca1:45c8:1bd8:2db2:eta8:4b75         Temporary IPv6 Address.       : fd67:25a9:3ca1:45c8:1bd8:2db2:8db:5d8:2351         Temporary IPv6 Address.       : fd67:25a9:3ca1:45c8:1bd8:2db2:8db:8db2:2db2:eta8:4b75         Temporary IPv6 Address.       : fd67:25a9:3ca1:45c8:1bd8:2db2:8db2:8db2:2db2:8dc2:8db2:2db2:8dc2:8db2:8db2:2db2:8dc2:8db2:8db2:2db2:8db2:8db2:2db2:8dc2:8db2:8db2:2db2:8dc2:8db2:8db2:2db2:8db2:8db2:2db2:8db2:2db2:8db2:8		
Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:1d58:5b31:c8a:bd8e         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:8db0:54ee:fa07:531f         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:8db0:54ee:fa07:531f         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:8db0:54ee:fa07:531f         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:8db0:540e:fa07:6531f         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:8db0:540e:fa07:6581:2351         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:bd0:1cdbe:f88:2351         Subnet Mack       : 255:255.252.0         Default Gateway       : 10:10:10:1		IPv6 Address fd67:25a9:3ca1:45e8:5d7:28ac:282:d09b
Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:44db:54ee:fa07:531f         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:88db:3bdb:5d00:45af         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:8b4b:2642:e1a0:457         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:8b4b:2642:e1a0:457         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:b408:2642:e1a0:457         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:b408:2642:e1a0:457         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:e5a7:f3ef:ea44:e925         Link-local IPv6 Address.       : fe80:567:28ac:290         IPv4 Address.       : 10.10.10.123         Subnet Mask       : 255.255.252.0         Default Gateway       : 10.10.10.10		Temporary IPv6 Address : fd67:25a9:3ca1:45e8:1065:c6b6:3cb5:b718
Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:88d0:3bd0:5d00:45af         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:b4b0:2642:e1a0:4b75         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:bd2:icdb0:58f8:2351         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:bd2:d00:58f1:2361         Link-local IPv6 Address.       : fd67:25a9:3ca1:45e8:c5a7:f3ef:ea44:e925         Link-local IPv6 Address.       : fd67:25a9:3ca1:45e8:c5a7:d00:5471         Subnet Mask       : : 255.255.252.0         Default Gateway       : : 10.10.10.1		Temporary IPv6 Address : fd67:25a9:3ca1:45e8:1d58:5b31:c8a:bd8e
Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:bd63:cd24:e1a8:4b75         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:bd63:cdbe:58f8:2351         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:e5a7:f3ef:ea44:e925         Link-local IPv6 Address.       : fe80:5d7:28ac;22fd09b%12         IPv4 Address.       : fe80:5d7:28ac;22fd09b%12         Subnet Mask       : 255.255.252.0         Default Gateway       : 10.10.10.10		Temporary IPv6 Address : fd67:25a9:3ca1:45e8:44db:54ee:fa07:531f
Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:bde3:cdbe:58f8:2351         Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:e5a7:f3ef:ea44:e925         Link-Local IPv6 Address.       : fe80:567:28ac:291/d09b%12         IPv4 Address.       : 10.10.10.123         Subnet Mask       : 255.255.252.0         Default Gateway       : 10.10.10.10.1		Temporary IPv6 Address : fd67:25a9:3ca1:45e8:88db:3bdb:5d00:45af
Temporary IPv6 Address.       : fd67:25a9:3ca1:45e8:e5a7:f3ef:ea44:e925         Link-local IPv6 Address.       : fe80::5d7:28ac;29d:d09b%12         IPv4 Address.       : 10.10.10.123         Subnet Mask       : 255.255.252.0         Default Gateway       : 10.10.10.10.1		Temporary IPv6 Address : fd67:25a9:3ca1:45e8:b4b0:2642:e1a0:4b75
Link-local IPv6 Address : fe80::5d7:28ac:291 d09b%12 IPv4 Address : 10.10.10.123 Subnet Mask : 255.255.252.0 Default Gateway : 10.10.10.1		Temporary IPv6 Address : fd67:25a9:3ca1:45e8:bde3:cdbe:58f8:2351
IPv4 Address		Temporary IPv6 Address : fd67:25a9:3ca1:45e8:e5a7:f3ef:ea44:e925
Subnet Mask : 255.255.252.0 Default Gateway : 10.10.10.1		Link-local IPv6 Address : fe80::5d7:28ac:281_d09b%12
Default Gateway : 10.10.10.1		IPv4 Address
		Subnet Mask
C:\Users\ptimmins>		Default Gateway
C:\Users\ptimmins>_		
	С:	Users\ptimmins≻_

6. This printer was found on 10.10.11.46. Once it is found, click Install to install the printer driver. You can verify the printer found is the one you expect by checking the serial number displayed. If the printer is not found, make sure you see lights Green and Amber lights on the ethernet port on the back of the printer. If no lights are present, you may have a defective cable or a defective port on your printer or router/wall jack.

Primera Installer			- 0
Network	Devices		Static IP Via USB
	IP Range to Sweep	10.10.8-11.1-254 eş '10.10.9 65' or '192.168.11-254'	Search
IP Address	Hostname	Serial Number Description	
10.10.11.46 DHCP Address	PTI-1b81ea ac.8b.9c.1b.81:ea	2210700490	Install



7. By default, the Printer Hostname method of installing the driver is checked. In most cases, this will work fine. If it fails for any reason, restart the installer and check DHCP address. The Reserved IP Address or static method is for advanced users. Click Create Hostname Printer.

Ca	incel				MAC ac:8b:9c:1b:81:e
	DHCP Address	ł	Printer Hostname	R	eserved IP Address
Use	this printer's DHCP assigned IP Address.		multicast DNS software to ference this printer by its hostname.		lish a permanent IP address his printer on your network.
Pro	Simplest setup to start printing right away.	Pro	Automatically responsive to network changes.	Pro	Printer is configured once for the entire network.
Con	Networks will change over time. When this device's IP is reassigned, a manual update will be required.	Con	Potentially increases print start time.	Con	Requires an IP address reservation on your router / switch. Contact your IT specialist for help if needed.

8. It should only take a few moments to install the driver. If the installer stays on this screen for several minutes, click Cancel to be brought back to the previous screen.

Primera Installer		- 🗆 X
Install N Cancel	etwork Device	Serial         2210700490           MAC         ac:8b:9c:1b:81:ea
	Discovering. Discovering IP address for hostname PTI-1b81ea.local	
	If IP Address is not found, please install Bonjour or another multicast DNS (mDNS) server. The 'Install	onjour

9. You will see the following when the printer is ready to be installed. You may choose to describe the location of the printer if you have multiple printers on your network. In this example, we chose "Tech Support". Click Set Description and then click Install.

Install Network	Device	
Cancel		Serial 2210700490 MAC ac.5b.9c.1b.81.ea
	Hostname Printer ready to install at PTI+:	lb81ea.local
Printer Name	Edible ink Printer (PTI-1bS1ea)	
	Allega Saana	
Add a Descr (Optional) Sa	ription? we text in this printer to identify it on any computer.	
	Tech Support	Set Description
Description		



10. Congratulations! You have successfully connected your printer to Ethernet.

Primera Installer				-		×
Cancel	ork Device		Serial MAC ad		07004 <u>1b:81:</u>	
	Successfully Installed Edib Your device can now					
	Install Another Printer	Register Printer				

**Note 1:** If you want to change your connection type or change Ethernet connection settings, run the installer again and change the settings. There is no place to adjust these settings in Print Hub. To find the installer, visit www.primera.com/eddiedownloads.

**Note 2:** The mac address will be printed on a label affixed to the back of your printer. The mac address may be necessary for reserved (static) IP address installations.

**Note 3:** If you have both USB and Ethernet connected, USB will be the default communication channel. To use Ethernet, you must disconnect the USB cable.

Note 4: It is possible to install both a USB driver and Ethernet driver so you may print using whatever method is connected.

- USB driver name: Edible Ink Printer.
- Ethernet driver name: Edible Ink Printer (PTI-[Unique ID]).

If connected via Ethernet, you may type in the printer IP address to display information about the printer. To find the IP address open PrintHub – Go to Printer Settings – Click on Network Information.

ddie		
dible Ink Printer	~	Ready Edible Ink Printer
		Queue Printer Settings
		Information
		Driver Edible Ink Printer (1.0.1)
		Firmware 1.32 (9/14/2021) : 2 : 04.07 (9/17/2021)
		Serial Number
		Software Version 1.9.7.1
		Description
		View Status Dump
		Advanced Settings
		Network Information

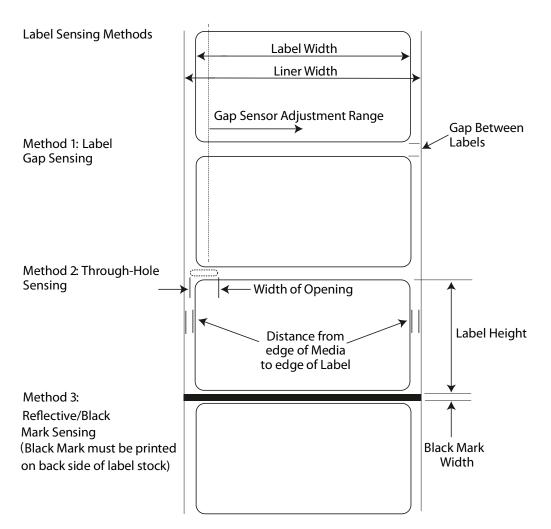


# Section 2: Label Stock

### 2A. Label and Roll Specifications

A wide variety of label stock can be used in the Printer. Refer to the specifications and settings in the following sections before ordering custom stock from Primera or any stock from another company.

**Important!** Test all custom-made label stock with the intended Printer before ordering large quantities! Primera will only assume responsibility for custom label stock ordered from Primera.



Note: See table below for Max and Min values in inches and mm.



#### Label Stock

	Max	Min
Label width	209 mm (8.25")	13 mm (0.5")
Liner/media width	212 mm (8.375")	38 mm (1.5")
Label height/length	609 mm (24")	13 mm (0.5")
Gap between labels	253 mm (10")	2.5 mm (0.10")
Width of through-hole opening	12.65 mm (0.5")	6.325 mm (0.25")
Gap Sensor Adjustment Range (from left edge)	48 mm (1.9")	5.06 mm (0.20")
Reflective/Black Mark Width*	N/A	2.54 mm (0.1")
Max Outer Diameter (OD)	152.4 mm (6.0")	N/A
Inner Core Diameter (ID)	76.2 mm (3.0")	76.2 mm (3.0")
Total Thickness	10 mil (.0010")	N/A
(Liner + Label)**		
Distance from edge of	This assumes a	2 mm gap.
media to edge of label	However, this is ac margin offset.	ljustable via the left

\* The Reflective/Black Mark should be opaque to infrared light. The mark should be between the labels. The end of the mark should correspond with the beginning of the label.

\*\* This is the recommended maximum. There are two factors that determine whether the Printer will accept any particular stock thickness.

- 1. The ability for the Printer to pull the paper through the print area.
- 2. The ability for the sensor to read through the backing if the sensor is set to die-cut.

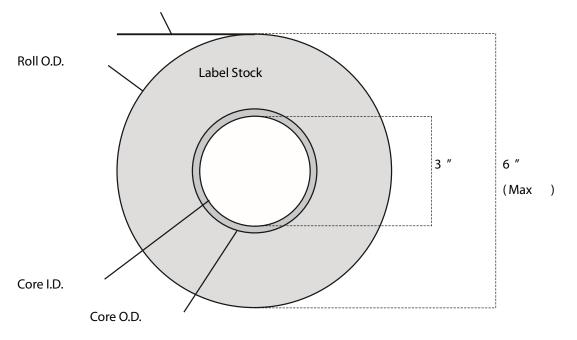
If you are printing in continuous or reflective label sensing mode number 2 does not apply. The fact that the Printer must read through the backing in die-cut mode will limit the thickness much more than the Printer's ability to pull the paper through the print area. However, if you adjust opacity level of the liner enough to allow the label to be seen by the stock sensor, the thickness will only be limited by the Printer's ability to pull it through the printer area. For these reasons the weight or thickness of the liner is a variable that cannot easily be defined. Primera recommends and uses 40# liner with all label stock.

#### It is important to test all label stock with the intended Printer before ordering large quantities!



#### **Roll Specifications**

Label Side Out



**Note on Label Orientation:** If you are using an applicator to apply your labels, be sure to order label stock with the correct orientation for your applicator. For example, most applicators will apply the side of the label first, so you will want to print the labels sideways.

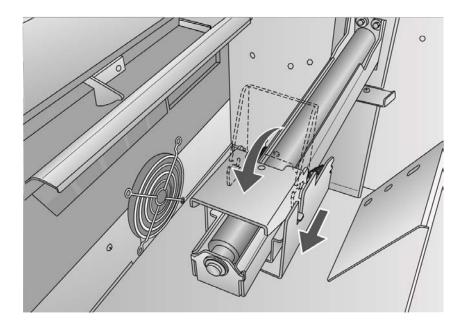


### 2B. Installing Label Stock

The following steps will guide you through loading label stock into your Printer:

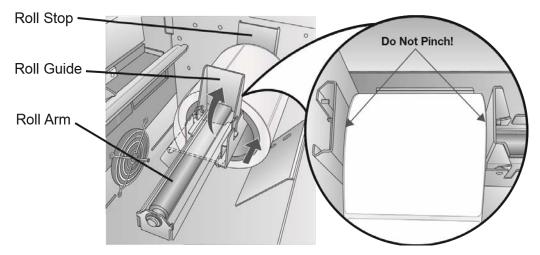
Make sure power is connected, and the Printer is on.

- 1. Open the Top Cover.
- 2. Lower the Roll Guide and pull it outward to make room for your label stock.



- 3. Remove any shipping tape from your label stock roll to ensure that it can unroll freely, making certain that no adhesive portion is exposed. It is important to note that any exposed adhesive surface can attach itself to the inner workings of the print mechanism and cause a media jam.
- 4. Place your roll of label stock on the Roll Arm and push it inward until it touches the Roll Stop.

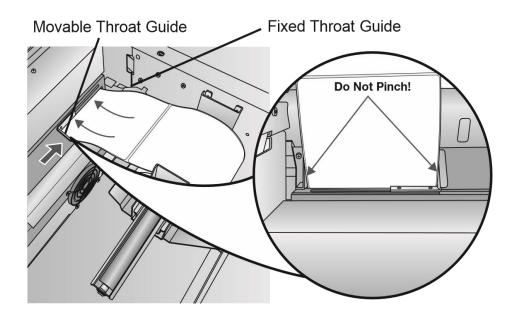




5. Flip up the Roll Guide and slide it inward until it touches the label stock. The Roll Guide will automatically pull back slightly to the correct position. There should be approximately a 1mm gap between the Roll Guide and the roll.

**Important Note:** Be aware that some label stock may have a core that is slightly too large for the roll or the labels may have wrapped unevenly, causing some to stick out beyond the edge of the core. Both of these issues can cause feeding problems.

- 6. Pull the Movable Throat Guide outward to make room for the label stock.
- 7. Place the leading edge of the label stock under the "label stock" symbols on the Throat Guides. The label stock should be placed far enough into the throat of the Printer to correctly position the Movable Throat Guide but not yet into the Printer itself



8. Slide the Movable Throat Guide inward until it almost touches the label stock.

**Important Note:** The label stock should be close enough to the Fixed and Movable Throat Guides to provide proper guidance but not close enough to pinch the label stock. (0 - 1 mm gap on either side) If the label stock is pinched by the guides, poor print quality or feeding problems could result.

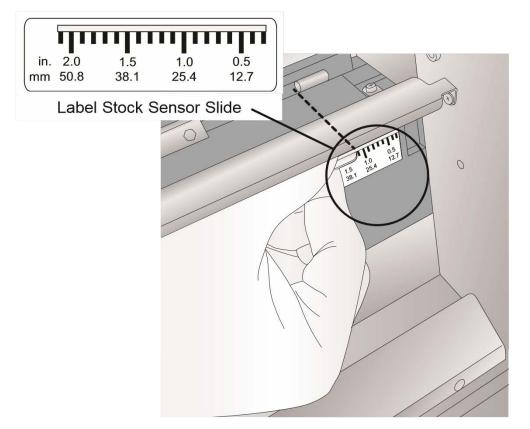
9. Feed the label stock further into the Printer until it senses the label and automatically feeds it through the Printer. If the Printer fails to feed the label stock, press the Load/ Feed button on the front panel while continuing to guide the label stock into the Printer. If the Printer does not automatically grab and feed the stock or continues to feed the stock without stopping, check the Gap Sensor position or mode (Section 2C or 2D).



### 2C. Adjusting the Gap Sensor Position

If you are using label stock other than standard square / rectangular die-cut labels such as circular die-cut labels or throughhole stock, use the instructions below to adjust the position of the label stock gap sensor. The sensor can be adjusted using the slide bar on the inside of the Printer. Below the slide bar is a measurement that represents the distance between the edge of the label stock and the sensor. Measure the distance from the edge of the label stock to the correct position on the stock. Set the sensor so the side of the slide bar lines up to this measurement. See the dashed line in the illustration below.

Important Note: You must adjust the stock sensor before loading nonstandard label stock.



#### **Circular Labels**

If you are using Circular Labels, you must adjust the stock sensor to correspond with the very top of the label where the circles are closest together. If the sensor is too far to the right or the left, the Printer will still sense the label, but the image may be offset downward because the Printer will start printing at the wrong position. If you are using stock that has multiple labels across, make sure the sensor corresponds to a place on the stock that has a label and not a vertical gap.

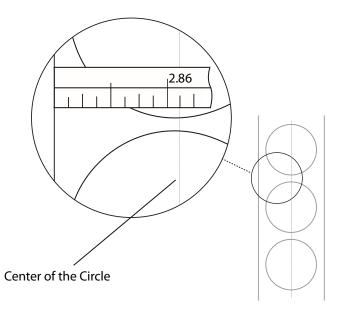
The sensor can only be moved a maximum of 50.8 mm from the left side of the printable area. This means that the maximum diameter circular label that can be printed is 101.6 mm. For circular labels larger than 101.6 mm in diameter, you must have a black mark printed on the back of the label stock.

This means that you must change the Stock Sensor Mode to Reflective. The Printer will now look for the black mark representing the beginning of the next label instead of the die-cut. For more information on changing the Stock Sensor Mode see Section 2D.



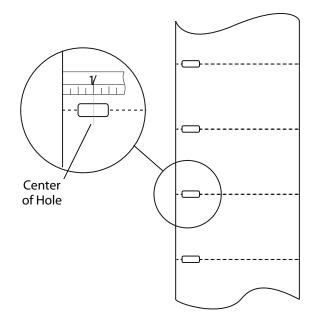
#### **Circular Labels**

Set Sensor Bar to 2.86 mm for 5.08 mm circular label (0.32 mm liner edge gap).



#### **Through-Hole Labels**

If you are using card stock or label stock that has a hole punch or a notch to identify a transition from backing to label, you can adjust the Stock Sensor to position it over the identifying mark.





### 2D. Set the Stock Sensor Mode

The stock sensor mode refers to the method the Printer will use to detect the print starting position for each label. To adjust the stock sensor mode, open the PrintHub. In most cases, you will NOT need to change this setting. By default, it is set to sense standard die-cut labels. It is only necessary to change this setting if you are using clear labels or any label with a black sensing mark on the back.

- 1. Connect the Printer via USB and turn on the power. The Stock Sensor Mode setting is stored in the Printer's internal memory, so you will not be able to access it unless the Printer is turned on and properly communicating with the computer.
- 2. Go to Start Programs Primera Technology Primera PrintHub.
- 3. Click on the Label Feed (3rd tab from left).
- 4. Select the Stock Sensor Mode by clicking on the graphic that most closely corresponds to the stock you intend to install.
- 5. Load the label stock after you have set the sensor mode.

LX4000	2000			
Color Label 4000 🖌	Ready Color Label 400	0		
	Queue Print Alignment Label Fee	d Printer Settings		
	Sensor Mode		80%	C
	0 02	0	80%	848
	Continuous Reflective	DieCut	80%	A
	Present Mode		Align Printhe	
	Cut after no activity	Cut after 'Feed' button press	Align Printhe	ad lank Clea
	Cut after every label	Cut after label count		
				11
Online Only				<u> </u>
Settings	1		Order	r Supplies

There are three sensor modes:

**Die-Cut (Default).** If you are using standard die-cut labels that look similar to the graphic, use this setting regardless of the size of the label. Also, use this setting for Through-hole label material where a hole is punched through each label or a notch is cut in the side.

**Reflective.** Use Reflective for label material where a black pre-printed line (black mark) on the back of the label stock indicates the break between labels. Black marks are required on clear label stock rolls or labels where the label waste matrix (waste) is left on the liner. Black marks can also be used for irregularly shaped labels, circles larger than 101.6 mm, or on any stock where the print starting position can not be sensed using the label itself.

**Continuous.** (Sensor off) If you have continuous stock with no die-cut, reflective mark, or holes, set the sensor type to Continuous. This setting will turn off the stock sensor. In this mode, there is no way to set the print starting position. The Printer will simply start printing the first label and print each subsequent label immediately after that previous one. To produce a gap between prints, simply add the desired amount of white space to the end of the label being printed.

**Important Note:** You must also set the Stock Sensor Position (Section 2C) so that the sensor is sensing the correct point on the label stock.



### 2E. Set the Present/Cut Mode

Use the Present/Cut Mode to adjust how the Printer presents labels after they are printed or if/when they are cut after printing. To adjust the Present/Cut Mode, open the PrintHub program.

- 1. Connect the Printer via USB and turn on the power. The Output/Cut Mode Setting is stored on the printer main board so you will not be able to access it unless the Printer is turned on and properly communicating with the computer.
- 2. Go to Start Programs Primera Technology Primera PrintHub.
- 3. Click on the Label Feed Tab.

**Cutter Options:** 

4. Click on the Output/Cut Mode button.

There are different options available which change if the Cutter is enabled or disabled. If the Cutter is disabled, the label present options will be available. If the Cutter is enabled the present options are no longer available, but cut options become available.

ueue Print Alignme	nt Label Feed	Printer Settings		
ensor Mode			80%	C
0	0		80%	M
Continuous	Reflective	DieCut	80%	¥
resent Mode	1		⊕ ≓	0 +

**Cut after button press.** This setting will cut after you press the Load/Feed button on the Printer. This can be used after one label or an entire job. This feature is useful if you will not be present at the end of the print to catch the cut label.

**Cut after label count.** This option will cut after the number of labels specified in the toggle box that appears when this option is selected. This is useful if you have front/back labels or sets of labels.

**Cut after no activity.** This setting will cut at the end of a print job if the Printer does not receive another print job within one second of the last print job in the queue. You can use this feature to cut at the end of multi-copy job, multi-page job or multiple individual jobs in the queue.

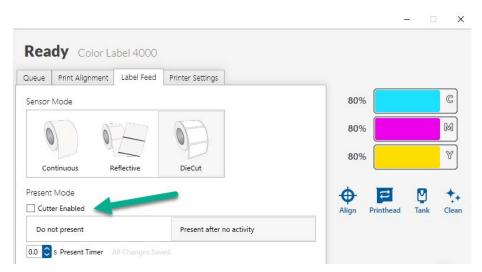
Cut every label. This setting will cut after every label.



**Present Timer.** Adjust this value to control how long after the last print the Printer will present the label for cutting or tear off. This can be useful to prevent unwanted cuts between jobs in queue.

#### **Present Options:**

Uncheck the Cutter Enabled box to show present options.



**Do not present.** In this mode the label stock does not move after the last label is printed. This means that part of the last label printed is still in the Printer. This should be used only if you have a label rewinder attached.

**Present after no activity.** This setting will present (feed all printed labels past the tear off point) at the end of a print job if the Printer does not receive another print job within one second of the last print job in the queue. You can use this feature to present at the end of a multi-copy job, a multi-page job or multiple individual jobs in the queue.



# Section 3: Primera PrintHub

Primera PrintHub is used to interact with the Printer for gathering ink levels, maintenance, alignment, cost calculation and several other functions. You can use it to manage these functions on multiple LX4000e printers and other Primera label printer models.

PrintHub automatically installs with your printer driver and can be accessed through the printer driver preferences or as a program on your Windows start menu.

- 1. Connect the Printer via USB and turn on the power. PrintHub accesses most of the information it uses from the printer itself, so the printer must be turned on and communicating for the program to be useful.
- 2. Go to Start Programs Primera Technology Primera

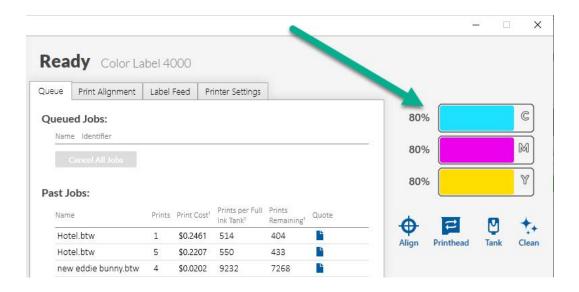
Primera PrintHub™		
LX4000		
Color Label 4000	Print Jobs in Que Color Label 4000	
	Queue Print Alignment Label Feed Printer Settings	
	Queued Jobs:	80%
	Name Identifier	
	Hotel.btw 35	80% H
	Cancel All Jobs	80%
	Past Jobs:	
	Name Prints Print Cost <sup>1</sup> Prints per Full Prints Ink Tank <sup>1</sup> Remaining <sup>1</sup> Quote	<b>0</b>
	Hotel.btw 5 \$0.2207 550 434 🖺	Align Printhead Tank
	new eddie bunny.btw 4 \$0.0202 9232 7285 🖹	G
	C 100mgmaccheese.btw 6 \$0.0235 5729 4419	•
	TwoUp Circles.btw 3 \$0.0299 6623 5108	
	Smoothee.btw 3 \$0.0449 3295 2600 🖺	
	Restore Default \$66.95 per Ink Tank	
		Cipicani and
✓ Online Only		

- a. Use these tabs to adjust alignment, sensor mode, output mode, and advanced settings.
- b. If you have multiple Primera printers connected, they will be listed here.
- c. Past jobs will show the last five jobs along with cost information. Click the document icon to view a cost report.
- d. Application Settings (Automatic Update Settings)
- e. Print Queue shows the current printing job.
- f. Order Link
- g. Frequent Activities
- h. Current Ink Levels
- i. Print Counter



### 3A. Monitoring Ink Levels

Ink levels can be monitored at any time by using the PrintHub. Immediately after printing starts, PrintHub will display the ink levels in the upper right corner of the application. Ink is displayed in 5% increments.



### 3B. Using the Cost Estimator

The cost estimator is found under the queue section on the first tab of the PrintHub. The last five job costs are stored in the list. Each job will show the cost per label based on the cost per cartridge entered below the list. Enter the actual cost of the cartridge you paid. Prints remaining on the currently installed cartridge and total prints on the new cartridge are both displayed.

X4000	Deader						
olor Label 4000	Ready Color La	bel 4000					
	Queue Print Alignment	Label Feed	Printer Settings				
	Queued Jobs:					80%	C
						80%	M
	Cancel All Jobs Past Jobs:		Prints per Full	Prints		Click for a Printable Quote	Ÿ
	Name	Prints Print C	Ink Tank <sup>1</sup>	Remaining <sup>1</sup>	Quote	- + 2	M +
	Hotel.btw	5 \$0.22		434		Align Printhead	Tank Cle
	new eddie bunny.btw	4 \$0.02		7285			
	100mgmaccheese.btw			4419		_	
	TwoUp Circles.btw	3 \$0.02		5108		_	
	Smoothee.btw	3 \$0.04	49 3295	2600	Ľ	-	11.
	Restore Default	\$66.95	per Ink Tank				(ven)
Online Only							

To see a printable/savable report click on the document icon in the job you want to see. A report will display the information. You can print or save the report from this screen. You can also change the currency using the drop down, change the job name or adjust the cost from this screen.



Print Job Report		- 0	×
Edit Print Job Report			,
Job Name			
Hotel.btw	Primera Color Label 4000		
Currency To Use			
\$ : US Dollar ~	Cost Report for: Hotel.btw		
Cartridge Cost	Ink Tank Cost: \$66.95		
\$66.95	Estimated Ink Cost per Print \$0.2461		
Save Print	Per Print Details	-	
	Cost per Print Cyan \$0.1303	]	
	Magenta \$0.0617		
	Yellow \$0.0541		
	Total \$0.2461		
	Time per Print 36.6 Seconds		
	Ink Tank Percentage per Print Cyan 0.195%		
	Magenta 0.092% Yellow 0.081%		
	Job Details		
	Prints 1		
	Time Elapsed 0 hours 0 minutes 36 Seconds		
	Prints per Full Ink Tank Cyan 514		
	Magenta 1085 Yellow 1237		
	Please note: all calculations reported by this tool are estimates only. Actual ink yield and cost pe	r	
	print you experience can be different depending upon variables such as how many prints you test to receive your results.		
(.	©2018-22, Primera Technology, Inc., All Rights Reserved.		
< .			>

**Important Note:** The cost per label represents the average cost per label over an entire run of labels. This means that the perlabel cost will decrease and become more accurate as the number of labels printed increases. This is because the ink that is used for periodic cartridge maintenance is divided into a larger number of labels. Primera recommends printing at least 5 labels for an accurate per label cost.



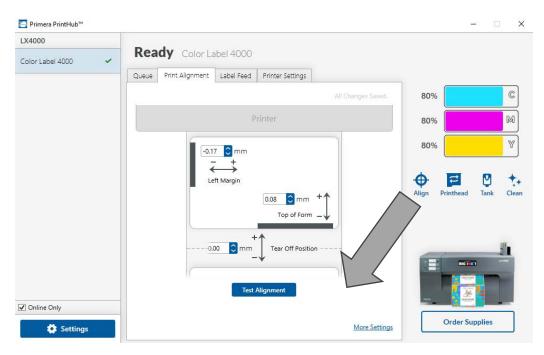
### 3C. Adjusting the Print Alignment

If your previous experience with printing is limited to printing letters and cards to 21.59 cm by 27.94 cm paper, you probably are not familiar with an essential part of a label printing - Print Alignment. Standard printers feed a sheet and start printing based on the start of the sheet. They also prohibit printing to the edge of the sheet. This is to avoid any need for alignment. The LX4000e senses the label's beginning with an optical sensor and can print to the top, bottom, left, and right edge. Because of this, it is necessary to align the Printer to work with specific types of label stock.

The LX4000e comes factory-calibrated to print exactly to the edge of Primera label stock. However, due to variations in the left margins and other variables, it may be necessary to fine-tune these settings at the beginning of each roll. This is especially true for other non-Primera brand label stock.

**Important Note:** Before adjusting alignment settings, first print one label at the quality level you intend for the entire job. This will ensure the label stock is moving at the same speed, and the stock sensor will sense the gap in the same way.

Adjust print alignment using the PrintHub. Go to the Print Alignment Tab (second tab).



**Important!** Before adjusting any values, print the test alignment to see how close you are to alignment. The on-screen graphic is the same as the print, which makes it easier to adjust these values.

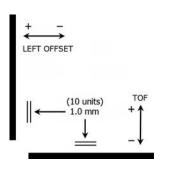
Three items can be adjusted here:

- **Tear off/Cut Position.** This value adjusts the position of the last label printed after it has been presented for tear-off or for cutting. This only applies if the output mode is set to "Present the label." Add to the current value to move the tear point closer to the Printer. Subtract from the current value to move the tear point away from the Printer. The value is automatically saved as soon as you set it.
- Left Margin Offset. This value moves the printed label left or right. Add to the current value to move the printed label to the right. Subtract from the current value to move the printed label to the left.



**Note:** Before adjusting this value, make sure the label stock is properly loaded so that there is no gap between the edge of the liner and the fixed throat guide. Any gap at this point will greatly affect the Left margin offset value needed to align the label. Also, if you adjust the value with improperly loaded label stock, you will have to adjust it again if you load the label stock correctly the next time.

• **Top of Form (TOF).** This value moves the print start position up or down on the label. Add to the current value to move the printed label down or toward the Printer. Subtract from the current value to move the printed label up or away from the Printer. The value is automatically saved as soon as you set it.



You may have to make several adjustments to one or more of these values. After each adjustment you can click the Test button to print a small test pattern on the label. This will help you find the proper alignment value.

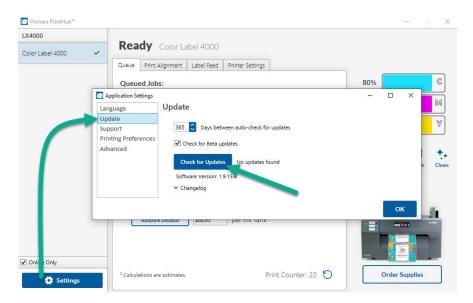


### 3D. PrintHub Settings

General application settings that apply to the software and all printers can be found by clicking the blue "Settings" button in the lower left. Printer-specific settings can be found on the "Printer Settings" menu item. See next section.

**Language.** Typically, the language is set to match the language setting in the operating system. However, you can override currency settings on the Language Tab.

Automatic Updates. Automatic Updates will update PrintHub, the printer driver, and the printer firmware. Every seven days, you will be prompted to update the software if there are any newer versions. You can choose to increase or decrease that automated check. You can also perform a check for updates immediately by clicking the "Check for Updates" button. Finally, if you would like to receive beta software, check the "Check for Beta updates" box



**Printing Preferences.** You can choose to close PrintHub after printing completes by checking the "Close this application after printing completes" box. PrintHub automatically opens whenever you send a print job to the Printer. If you do not want PrintHub to open in front of other programs, you can check the "Launch minimized during print" option.

**Support.** Click the "Generate Support Report" button to generate a zip file on your desktop containing all recent log files. Send this to tech support so they can help solve any printing problems.

**Advanced.** Check the "Generate Printer Status XML" box to create an XML at "C:\ProgramData\PTI\PrintHub\PrinterStatus.xml".

Software developers can use this file to display status information such as error messages and ink levels in 3rd party applications.



### 3E. PrintHub Printer Settings

Printer settings can be found in Primera Print Hub on the Printer Settings Tab for the LX4000e.

Information. This section displays all current driver, software and firmware versions.

### **3E.1 Network Information.**

This button will be displayed if you are connected to the LX4000e via Ethernet. Click this button to display printer network information in your browser.

Primera PrintHub™		– 🗆 X
LX4000		
Color Label 4000 🗸	Ready Color Label 4000	
	Queue Print Alignment Label Feed Printer Settings	
	Information	80% C
	Driver Color Label 4000 (1.0.2)	
	Firmware 1.03 (10/17/2024) : 2 : 01.14 (9/18/2024) Serial Number ????????	80% M
	Software Version 1.9.15.4	
	Description	80%
	View Status Dump	
	Advanced Settings	Align Printhead Tank Clean
	Network Information	
		H.
✓ Online Only		
		Order Supplies
🛱 Settings		



Primera LX4000

VID/PID: 0x0f25 / 0x0047 Serial Num: 2999999123 MAC Address: ac:8b:9c:fe:ed:dc Hostname: PTI-feeddc Description: Print Test Unit Dynamic IP: 10.10.10.118



### Advanced Setting Button. Click the Advanced Settings button to view the following settings.

Advanced Settings for Color Label 4000			×
General			^
USB Serial Number Modify the USB serial number to use multiple LX4000 printers on this computer. After setting a new number, this printer will restart under another name.	001	<b>Generate</b> Set	
Return user settings to default values		Restore Factory Defaults	
Perform Output Cutter maintenance when instructed. A cutter cleaning should be performed once every 2000 cuts.		Output Cutter Cleaning	
Pause print job on ink low	$\checkmark$		
Cartridge			
Maintenance Spits	1.5 🗘 s		
Pages between Maintenance Wipes	30		
Period between Maintenance Wipes This setting defines the period between maintenance wipes in estimated pages, based on ink consumption per page. Maintenance wiping occurs when either this Period or the Pages between Maintenance Wipes threshold is reached.	10		
✓ Suppress Alignment			
Stock Feed			
Feed Speed (0.1 in/sec)	35		
Print Speed (0.1 in/sec)	20		
Reverse Speed (0.1 in/sec)	35		
Vertical Print Adjust (FRHH)	-10		
Max Label Search Length	305 🗘 mm	All Changes Saved.	
Run a sensor calibration if printer will not load the stock. Stock must be removed from printer.		Calibrate Paper Sensor	
Run a sensor calibration if printer fails to create a loop in the stock. Stock must be removed from printer.		Calibrate Loop Sensor	
Load Behavior Cutting off the first label on load can help align long, narrow labels.	Load Without Cutting ~	All Changes Saved.	~

ОК



#### **General Settings**

### **3E2. Multiple Printer Support**

You can install multiple printers to the same computer and use them simultaneously. To do so you will need to change the USB serial number identifier of one of the two printers, two of three printers, three of four printers etc. To change serial numbers:

- 1. Connect each new Printer one at a time. The current USB Serial Number will be displayed.
- 2. Click Generate. It will find the next available USB Serial Number based on the currently connected printers. For the first one it should set it to 2 and for the next printer 3 and so on.
- 3. Click Set. You will hear the Printer reset and the settings window will turn gray. After it resets you will be able to see the settings window again. Keep the Printer connected.
- 4. Now you can connect the next Printer. Windows will automatically install a new driver for that new Printer and name it Colour Label 4000 (Copy 1). You can rename it later by editing the printer properties in the Windows printer list.
- 5. You will now see a second printer appear in the left column Colour Label 4000 (Copy 1). Click on it to display information about this Printer. If this is the last Printer, you will connect you are done. If you wish to connect additional printers, follow steps 2-4.

Restore Factory Defaults. This will set all Print alignment and other calibration settings back to factory defaults.

Output Cutter Cleaning. See this article.

Pause print job on ink low. Enable a warning at 20% ink remaining to check the physical ink levels in the tanks.

**Cartridge Settings.** Here you can adjust the frequency of certain maintenance operations. Increasing the value of "Seconds between Maintenance Spits" will decrease ink usage but could also cause poor quality printing.

Increasing or Pages between Maintenance Wipes will speed up printing but could also cause poor quality printing.

Check the Suppress Alignment message to prevent the window from appearing which prompts you to align the cartridge every time a new cartridge is installed. Skipping the alignment is faster but can result in poor print quality.

#### **Stock Feed Settings**

Feed, Print, Revere Speed settings. Adjust these settings only if you experience skipping and feeding problems described in this article.

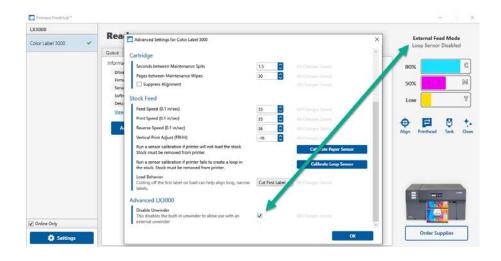
#### Max Label Search Length. See this article.

**Calibrate the paper sensor** if you are receiving TOF errors. The calibration process will prompt you to remove all paper/stock from the Printer before calibrating.



### 3E3. Disable Unwinder/External Feed Mode.

Check this box to disable the loops sensor so that you may feed label stock from an external unwinder through the slot on the back of the printer. In this mode, labels placed on the internal unwinder will no longer feed. For this reason, a visual reminder is enabled in the upper right corner of Print Hub.



**Tip**: Leave a roll of labels installed on the internal unwinder so that your external labels will feed more easily past the roll bar.



## Section 4: Printing from a PC

### 4A. Using BarTender®

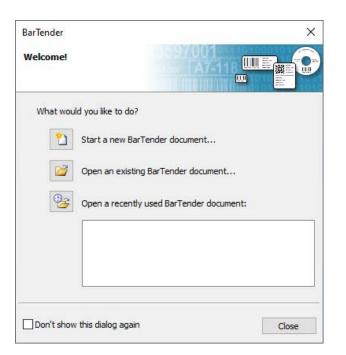
DTM Special Edition BarTender UltraLite is included with the LX4000e. You can download it at the link below. Use the code below when prompted after installation.

**Download:** https://portal.seagullscientific.com/downloads/bartender **Code:** Z1J6-MY8X-N2B2-R2LH

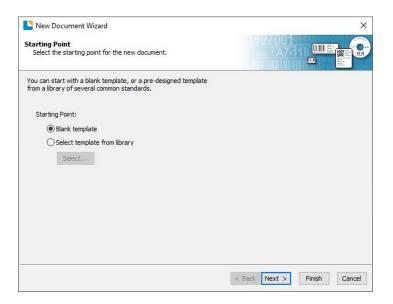
Other programs can be used to print. If printing from other programs, please follow the guidelines in Section 4D.

Use the following instructions as a guide through the wizard setup process.

1. Choose "Start a new BarTender document..."

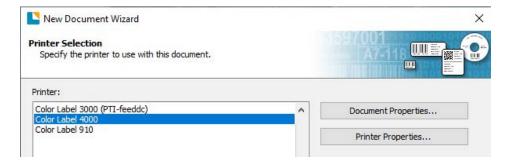


2. Select "Blank Template". Click "Next".





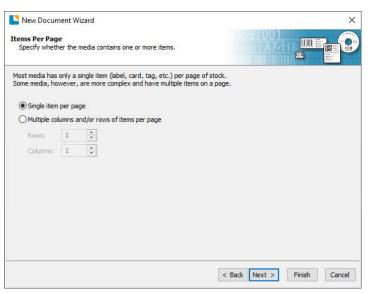
3. Select "Colour Label 4000". Click "Next".



4. Select "Specify Custom Settings". Click "Next".

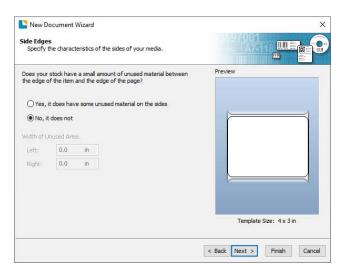
New Document	Wizard		3507004	>
ock Selection				
osition of the items	size of the page, and the si on the page. You may selec own custom settings.	ze, number, and t a predefined		
Specify custom	settings			
O Use a predefine	d stock			
Category;		~		
Stock name:		^		
	<	~		

5. Select Single Item per page. Click "Next".





6. Select No, it does not for Side Edges.



7. Select your label shape. This is typically "Rounded Rectangle" for standard labels from Primera with a .125 corner radius. Click Next.

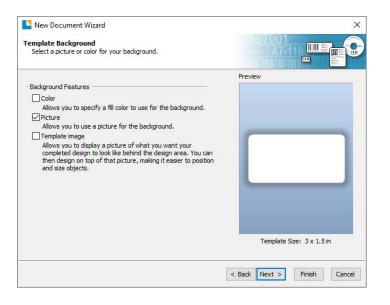
New Document Wizard	×
Printed Item Shape Specify the shape of your items.	
Rectangle     Rounded rectangle     Clipse     Cirde	Preview
	Template Size: 4 x 3 in
	< Back Next > Finish Cancel

8. Set the template size to match labels installed in the Printer. Change the Template Size to User Defined Size to gain access to width and height. Click "Next".

New Docun emplate Size Specify the si					
Template Size:	User Defined Size			~	Preview
Width:	3.0 in	Height:	1.5	in	
Orientation —	e (	123			
					Template Size: 3 x 1.5 in



9. Check the "Picture" box to add a background photo or graphic to your label. Click "Next". If you click "Finish", the remaining default wizard options will be set and no picture will be added.



10. Select "Embedded Picture". Click the "File" Button to browse to the location of your photo/graphic file. Set the Size Method to "Stretch". Note the preview to the right. Click "Next" if you are satisfied with the layout of the photo or graphic. Otherwise, you may try one of the other Size Methods in the drop-down menu.

	for your template background.		
Gource:	Embedded Picture	~	Preview
	Get Picture From File Scanner or Camera		
Size method:	Stretch	~	
Rotation: Options	0° ~		All Natural Roasted Garlic & Herb Seasoning
Preprinted			For Pullry, Seafool, Beef
Print when:	Always	7	
Overhang ten	nplate: 0.0 in		
Image Pro	Error Handling		
Apply Ima	ge Processing Permanently		Template Size: 3 x 1.5 in

11. Review the label setup summary. If it is correct, click "Finish". Your blank label or label with background will be displayed.



You can edit any of these initial settings by going to the File Menu and selecting "Page Setup". Basic and advanced settings are available on the various tabs or click on the Page Setup Icon.

File Edit	View	Create	Arrange	Administer	Tools	5
Pr				40	X	
Arial		1	• 12	- B	Ι	1

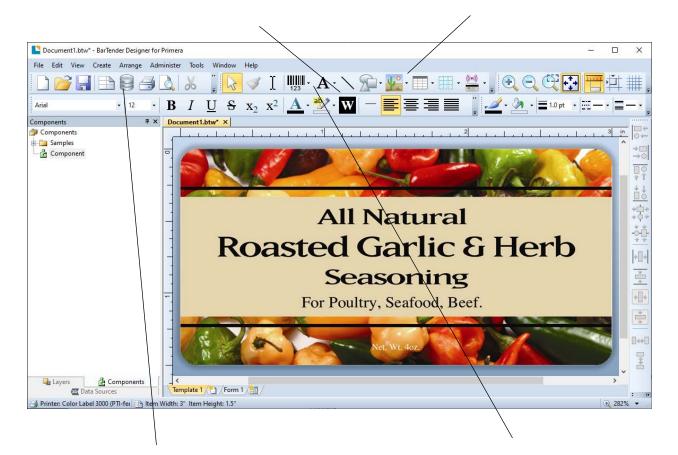
	Page	Layout	Shape	Media Handling	Printin	g Order	Templat	tes B	ackground	
Layou	t						Prev	view		
Row	is:	1		Columns:	1	▲				
Margin	ns						-			
Top:	:	0.0	in	Left:	0.0	in				
Bott	tom:	0.0	in	Right:	0.0	in				
Note	e: See t	he Page ta	ab to enat	ble design in the mar	gin area.					
Templa	ate Size						-	ľ		l l
Widt	th:	3.0	in	Set Mar	nually					
Heig	jht:	1.5	in		loony					
							,		Page Size: 3":	(1.5"
									Template Size: 3	



### 4B. Add Text, Barcodes, and Graphics to a BarTender Label

Once you have created your label size you will be able to add text, a barcode and/or graphics. This can be done using one of the buttons on the button bar at the top of the screen.

**Add Text.** Click the Text button. Now click anywhere on your label. "Sample Text" will appear. Edit the text on screen or double click it to open up text settings to change font, size and other settings. Add Graphic. Click the Image button. Now click anywhere on your label. An Image icon will appear. Double-click it to open up image settings and browse to the image/graphic that you would like to insert.



**Page Setup.** Click the Page Setup button to change your label size, adjust corner radius or change the shape.

**Add Barcode.** Click the Barcode button. Now click anywhere on your label. A barcode settings window will appear. Here you can choose any type of barcode and enter the value.

Tip! Double-click any object to open settings for that object.

Tip! Go to the Help menu to access the BarTender Manual and Tutorials.



## 4C. Printing from BarTender

- 1. To print, click the Print button or go to the File Menu and select "Print". The Print Dialog window will appear
- 2. Click Document Properties to access print quality settings. (Section 4F)
- 3. Set the number of copies
- 4. Click Print.

Print [H	lotel.	btw]				×
Print	Obj	ect Print Method				
Printe	er —					
Name	:	Color Label 4000				~ 🚰
Statu Driver		Ready Color Label 4000		D	ocument Prope	rties
Port:		USB001			Printer Propert	ies
Locat	ion:			P	rint on both sid	les
Comm	nent:			P	rint to file	
Quan Copie	-	Options 1				-
-Reco	ord Se	ection				
		abase	[	atabase Con	nection Setup	
Test P	Print	Print	Preview	Close	Cancel	Help

Tip! Click on "Document Properties" to adjust driver settings like Print Quality and Colour Matching.



### 4D. Printing from other programs

Since this Printer uses a standard Windows printer driver you can print from any application you would like. There are just a few things to remember that will make it much easier.

1. **Set the Page/Label Size in the Driver.** BarTender automatically prompts you for the size of the label that you are using. When printing from any other program you must do this manually. Before you print, simply set the custom page size just as you would set print quality in the printing preferences. In the example below the label size is 4" x 3" so the custom page size is set to 400 x 300 (displayed in .01 units).

		Custom Color Label 910				-
Seneral Karks and Bleed Jutput anghics Jokar Management	Print General Select Pinter			1	Printing Preferences Options     Color Label 910 Settings	<b>↓</b>
dvanced Jummary	Color Label 910  Color Label 910  Color Label 910  Conservence  Conser		Part to file	Preferences Find Printer	Paper Steel & do in Orientations' <u>Portrait</u> Print Quality: <u>Quality:</u> Color Matching: <u>ICC Glo</u> Ink Saturation: <u>100</u> Custem Form Size Wath: 400	
	Page Range	Current Page	Number of copies	x 1 🌩	Height: 300 -	825 J 0.1 Inches 2400 J
1 of 2 			Print	Cancel	ок	Cancel

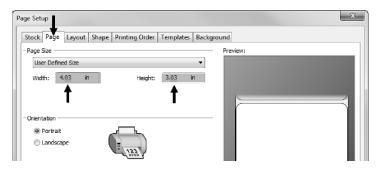
- 2. Check the image or document size. The image size or document size set in Illustrator should match to the Page/ Label Size set in the driver. If you have set your page size to 4" x 4" but your image is actually 5" x 3" the printer driver will automatically shrink your image to fit inside the 4" x 4" label. The result is that the actual printed label is 4" x 2.4". Avoid this by setting your document size or image size to match the label size.
- 3. **Choose the right printing program.** There are many different applications that are capable of printing to the LX4000e. However there are only a few that are ideal printing applications. For example, Adobe Illustrator is an excellent design program but is not always the best printing program. It can be difficult to find the printing preferences or to know the exact size of the art board. It is best to save as a PDF file and print from Adobe Reader or export as a 300 dpi JPG and print from BarTender.



### 4E. Creating a Full Bleed Print

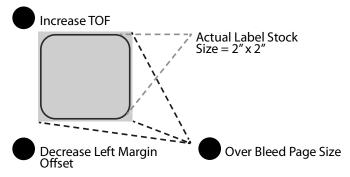
1. To create a label that completely fills the space with no white margins, adjust these settings in the status monitor and printing application (BarTender).

**Page Size.** Increase the page size width by 1mm (.03"). Increase the height by 1mm (.03"). If you are using BarTender, simply change the size under the File Menu - Page Setup. If you are using other graphics programs, you will need to change the page size in the application and in the printer driver preferences.



**Left Margin Offset.** You must decrease the left margin offset to center the over bleed on the label. If you over bleed by 1 mm you will need to decrease the Left Margin Offset by 0.4 mm. This will center the page size increase so there is a 1 mm over bleed on both left and right sides. Some additional adjustment may be necessary if the label was not perfectly aligned to begin with. See Section 4E.

**TOF.** Increase the Top of form by 0.4 mm. This will cause the Printer to start printing before the label and ensure a fully printed label. Some additional adjustment may be necessary if the label was not perfectly aligned to begin with. See Section 4E.



**Note:** It is best to over bleed as little as possible to avoid excess ink on the label backing. Also, over bleeding too much will cause the Printer to skip labels. This is because the Printer stops printing too late to sense the next label.

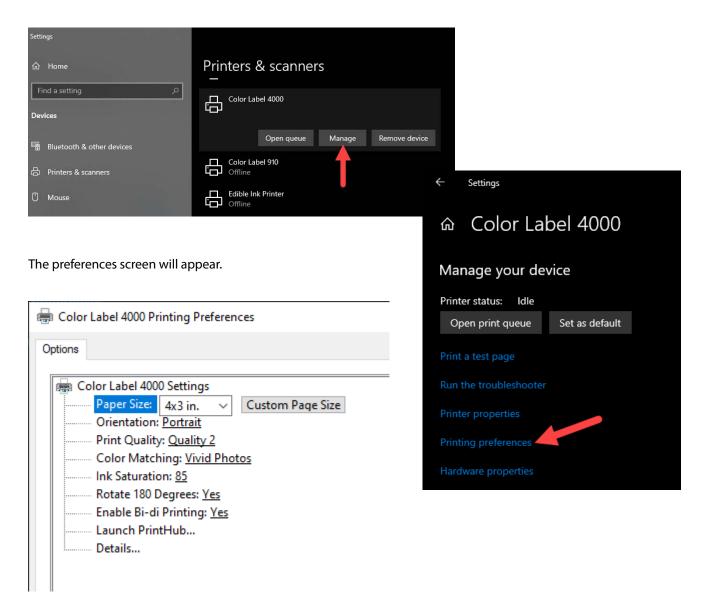


### 4F. Printer Driver Settings

Once the printer driver has been successfully installed, you will need to setup the driver with the appropriate print options. Refer to the following steps to change or verify your default printer driver preferences. These settings will apply to all new designs created in BarTender or other programs after the preferences were changed. Existing labels saved in BarTender will not be affected since the preferences are saved with the label. To change these preferences, you will have to change printer preferences through BarTender. (File Menu - Printer Settings)

### **To find Driver Settings:**

Click the **Start** button, search for "Printers". Select Printers and Scanners. Select the Colour Label 4000. Choose Manage. Select Printing preferences.



**Note on PC Settings:** Most applications allow you to change these same printer driver options from their "Print" and/or "Printer Setup" screens. Some applications such as BarTender save your settings with the label, others use settings only for the current print job just sent to the Printer.



#### Paper Size

If you are using BarTender, this setting is adjusted during the label setup wizard. If you are using a program other than BarTender you will need to set this to the dimensions of your label. Keep in mind that the dimensions are always relative to the width and height of the actual label in the Printer. Orientation of an image on the label should not change this setting. See Section 2A for minimum and maximum label sizes.

#### Orientation

There are two settings for orientation, Portrait and Landscape. If your text and graphics print left to right or as shown on the screen, select portrait. If you wish your printing to rotate 90 degrees from what you see on the screen so it is printing horizontally, select landscape as your orientation. Remember, this does not change the width and height Paper Size. It is only a tool for viewing a label upright on screen that will be printed sideways on the Printer.



Portrait

Landscape

### **Print Quality**

There are 4 levels of print quality in the driver. The lower the quality, the faster the print. Quality 1 provides the fastest print available while Quality 4 provides the best quality. It is recommended that you experiment with the different levels when designing your label to find a good balance between print quality and print speed. Quality 2 is the default.

### **Colour Matching**

There are several options available depending on which cartridge is installed (Pigment or Dye). The options will update automatically depending on which cartridge is installed.

**Vivid Graphics** mode is best used for graphical images where accurate colour reproduction is not as essential. Images printed in this mode will look more vibrant because more ink is being used to produce them. However, printing images of people may produce skin tones that have a reddish tint.

**Vivid Photos** mode is best used for photographic images where accurate colour reproduction is very essential. Images printed in this mode will look lighter than those printed in Vivid Graphics mode. Skin tones especially will look more natural in this mode.

**ICC Gloss Paper, ICC Gloss Polyester and ICC Matte Bopp** are all ICC calibrated colour matching options. Select the setting that corresponds to your installed Primera media of the same type to produce ICC colour matched prints. Note: ICC monitor calibration and additional setup is required for this option to work.

-NONE- will use no colour matching. Select this option to use your own ICC profile using the instructions in article 042721.

#### **Ink Saturation**

This option controls the amount of ink used when printing an image. The default setting is 100%, which will provide the most accurate colour matching. If the ink is not drying fast enough or "bleeding", you can decrease the Ink Saturation to lessen the amount of ink that is applied to the label.

#### **Rotate 180 Degrees**

Set this setting to Yes to print with the labels right side up as they exit the Printer.

#### Enable Bi-di

Set to "Yes" for fastest print speed. Requires an alignment print after every cartridge change. Set to "No" for better quality print (in some cases).

#### Launch PrintHub

This setting will open the Primera PrintHub application.

#### Details

Select this setting to see current firmware and driver version information and other printer settings.



## Section 5: Printing from a Mac

## 5A. Print Utility Settings (LX4000 Con g Utility)

The LX4000 Config Utility is used to interact with the printer for gathering ink levels, maintenance, alignment, and several other functions.

### To Find LX4000 Config Utility:

The LX4000 Config Utility automatically installs with your printer driver and can be accessed through the Printer & Scanners in Mac under Apple Icon – System Preferences.

1. Connect the printer via USB and turn on the power. The LX4000 Config Utility accesses most of the information it uses from the printer itself so the printer must be turned on and communicating for the program to open.

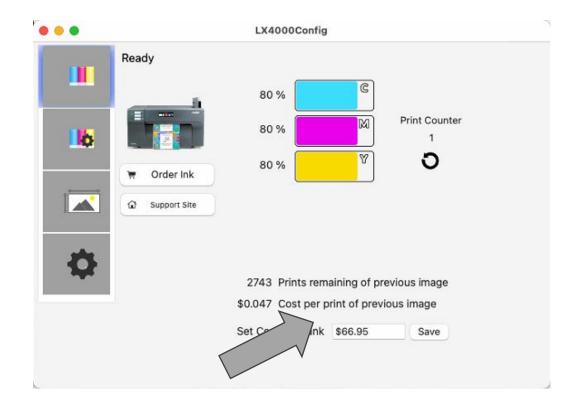
• • •	Scanners	
Search	Default printer Las	t
Privacy & Security	Default paper size	Primera Technology Inc. Color_Label_4000
Desktop & Dock		Printer Queue
🛐 Displays	Printers	Finite Queue
🐻 Wallpaper	Primera Color Label 2000	Name Primera Technology Inc. Color_Label_4000
Screen Saver	Primera Technology Inc. Color_Label_3000	Location Patrick's Mac min
Energy Saver	Offline	Options & Supplies
Lock Screen	Primera Technology Inc. Color_Label_4000	
Login Password		Share this printer on the network
Users & Groups	Primera Technology Inc. Disc_Publisher_se3	Open Sharing Settings
Passwords	PTI Color_Cookie	Kind Primera LX4000, 2.3
Internet Accounts		Driver version 2.3
🐞 Game Center	PTI Color_Label_500	
Wallet & Apple Pay	PTI Color_Label_610	
Kevboard	• Offline	Remove Printer Set Default Printer Done

2. Go to the Apple Icon – System Preferences - Printers and Scanners, select the PTI Colour\_Label\_4000, click on, Options & Supplies, and Open Printer Utility. Or you may simply print to the printer and the Utility will open.

0	pen Printer Uti	lity		_
		Open Printer ou	Open Printer Otinty	Open Printer Otinty



- 3. The LX4000e Config Utility has 4 tabs that are arranged on the top of the window. Each tab opens a screen that has various similar functions.
- Status Tab (First Tab). Displays ink levels, print counter and any error messages.
- Cartridge Tab (Second Tab). Use for aligning the cartridge, cleaning the cartridge, and changing cartridge.
- Alignment Tab (Third Tab). Adjusts vertical and horizontal print alignment. Changes the Stock Sensor Mode and toggles the Output/Cut Mode.
- Settings Tab (Fourth Tab). Displays printer information including firmware version, driver version, and software version. Check for updates and set other advanced settings.



The cost per Label is listed below the ink levels. Set your cartridge cost to get an accurate estimated cost.



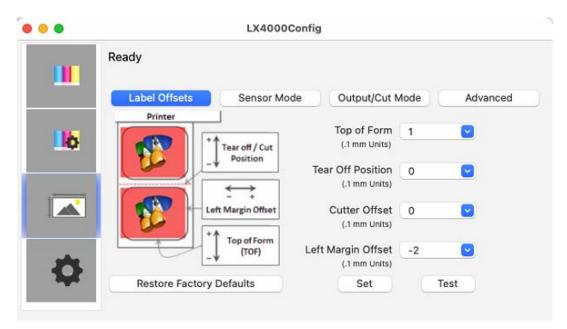
### 5B. Adjusting Print Alignment/Label Offsets

If your previous experience with printing is limited to printing letters and cards to 21.59cm by 27.94cm paper you probably are not familiar with an essential part of label printing – Print Alignment. Standard printers feed a sheet and start printing based on the start of the sheet. They also prohibit printing to the edge of the sheet. This is to avoid any need for alignment. The LX4000e senses the beginning of the label with an optical edge. Because of this it is necessary to align the printer to work with specific types of label stock.

The LX4000e comes from the factory calibrated to print exactly to the edge of Primera label stock. However, due to variability it may be necessary to fine tune these settings at the beginning of each roll. This is especially true for other non-Primera brand label stock.

**Important Note:** Before adjusting alignment settings first print one label at the quality level you intend for the entire print job. This will ensure the label stock is moving at the same speed and the stock sensor will sense the gap in the same way.

Adjust print alignment using the LX4000e Config Utility. Click on the Alignment Tab (Third Tab).



Three items can be adjusted here:

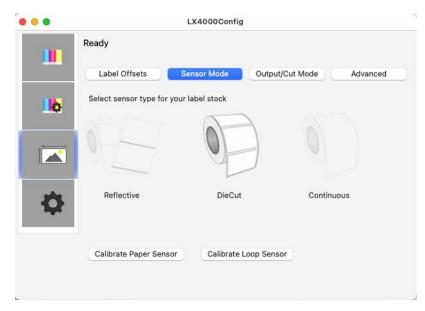
- **Top of Form (TOF).** This value moves the print start position up or down on the label. Add to the current value to move the printed label down or toward the printer. Subtract from the current value to move the printed label up or away from the printer. After adjusting the value click the Set Offsets button to send the value to the printer
- **Tear off Position.** This value adjusts the position of the last label printed after it has been presented for tear off. This only applies if the output mode is set to "Present." Add to the current value to move the tear point closer to the printer. Subtract from the current value to move the tear point away from the printer. After adjusting the value click the Set Offsets button to send the value to the printer.
- **Cutter Offset.** This value adjusts the position of the cut after the last label printed. This only applies if the output mode is set to "Cut." Add to the current value to move the cut closer to the printer. Subtract from the current value to move the cut away from the printer. After adjusting the value click the Set button to send the value to the printer.
- Left Margin Offset. This value moves the printed label left or right. Add to the current value to move the printed label to the right. Subtract from the current value to move the printed label to the left. After adjusting the value, click the Set Offsets button to send the value to the printer.

You may have to make several adjustments to one or more of these values. After each adjustment you can click the Test Offsets button to print a small test pattern on the label. This will help you find the proper alignment value.



### 5C. Set the Stock Sensor Mode

The stock sensor mode refers to the method the printer will use to detect the print starting position for each label. To access the Stock Sensor Mode, click on the Alignment button, then select Stock Sensor Mode. In most cases you will not need to change this setting.



Important Note: Set the Stock Sensor Mode BEFORE loading label stock!

You must also set the Stock Sensor Position (Section 2D) so that the sensor is sensing the correct point on the label stock.

**Die Cut (Default).** If you are using standard die-cut labels that look similar to the graphic use this setting regardless of the size of the label. Also, use this setting for through-hole label material where a hole is punched through each label or a notch is cut on the side.

**Reflective.** Use Reflective for label material where a black preprinted line (black mark) on the back of the label stock indicates the break between labels. Black marks are required on clear label stock rolls, or labels where the label waste matrix (waste) is left on the liner. Black marks can also be used for irregular shaped labels, circles larger than 116,84 mm or on any stock where the print starting position cannot be sensed using the label itself.

**Continuous.** (Sensor off.) If you have continuous stock with no die-cut, reflective mark or holes, set the Sensor Type to Continuous. This will turn off the stock sensor. In this mode there is no way to set the print starting position. The printer will simply start printing the first label and print each subsequent label immediately after the previous. To produce a gap between prints simply add the desired amount of white space to the end of the label being printed.



### 5D. Set the Output Mode

Use the Present/Cut Mode to adjust how the printer presents labels after they are printed or if/when they are cut after printing. There are different options available which change if the Cutter is enabled or disabled. If the Cutter is disabled, the label present options will be available. If the Cutter is enabled the present options are no longer available but cut options become available.

### Cut Options (Check Cutter Enabled):

Cut after no activity. This setting will cut at the end of a print job if the printer does not receive another print job within one second of the last print job in the queue. You can use this feature to cut at the end of multi-copy job, multi-page job or multiple individual jobs in the queue.

**Cut after button press.** This setting will cut after you press the Load/Feed button on the printer. This can be used after one label or an entire job. This feature is useful if you will not be present at the end of the print to catch the cut label.

Cut every label. This setting will cut after every label.

**Cut after label count.** This option will cut after the number of labels specified in the toggle box that appears when this option is selected. This is useful if you have front/back labels or sets of labels.

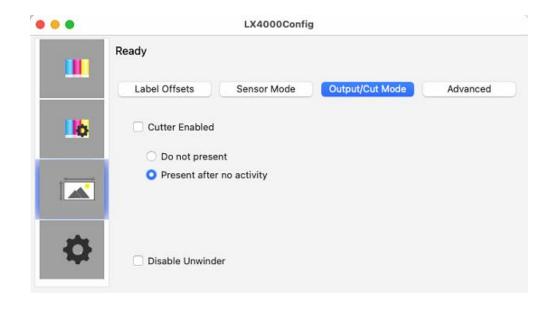
• • •		LX4000Confi	g	
	Ready			
	Label Offsets	Sensor Mode	Output/Cut Mode	Advanced
8	Cutter Enabled Cut after no			
-	Cut after bu			
	Cut after ev			
-	5	- Set		
•	Disable Unwind	der		



#### Present Options (Uncheck Cutter Enabled)

**Do not present.** In this mode the label stock does not move after the last label is printed. This means that part of the last label printed is still in the printer. This should be used only if you have a label rewinder attached.

**Present after no activity.** This setting will present (feed all printed labels past the tear off point) at the end of a print job if the printer does not receive another print job within one second of the last print job in the queue. You can use this feature to present at the end of a multi-copy job, a multi-page job or multiple individual jobs in the queue.



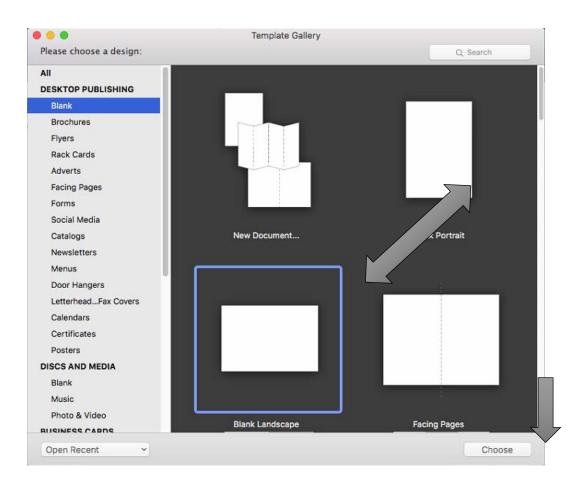


### 5E. Printing from Swift Publisher

Swift Publisher is an inexpensive software that can be used to design/layout and print your labels if you are using a Primera label printer attached to a Mac. Below is a tutorial on how to setup a label using Swift Publisher by Belight.

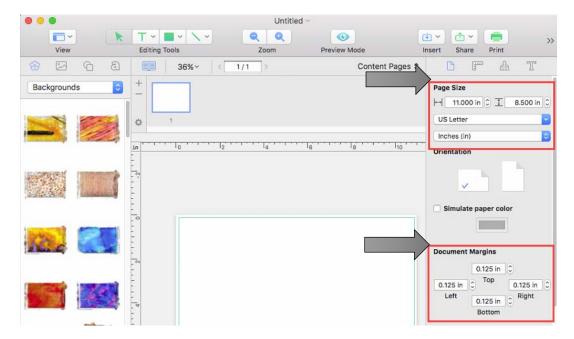
Get your free Swift Publisher Version here: dtm-print.eu/en/form/swift-publisher.html

When you open the software for the first time you will be asked to choose a Template. Select Desktop Publishing – Blank. (Do not choose from the "Labels" category!) Choose either blank landscape or portrait. Click Choose.

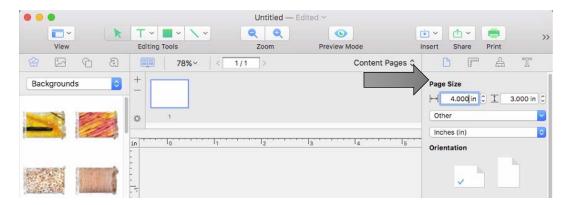




1. It automatically defaults to 8.5 x 11. We will need to adjust the page size and the margins.



2. Type in the size at the top.



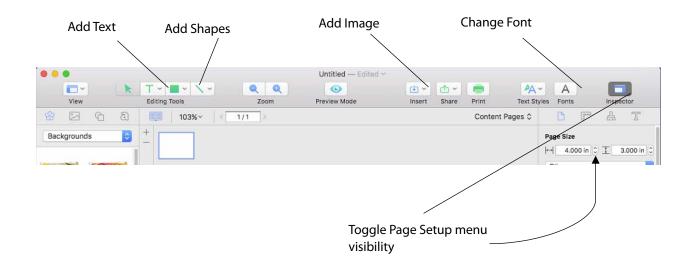
**Important Note:** The page size is not the same setting as the label size. In many cases you will choose the same size for both. However, if you change the orientation of the label so you can see text/graphics upgright on screen but the actual print will be rotated, you may need to choose the opposite setting for the label size. For example: Page Size = 3x4. Label Size = 4x3. Do not change the orientation as it will change the page size.



3. Next, set all margins to zero. This will allow you to create designs that completely fill the label.

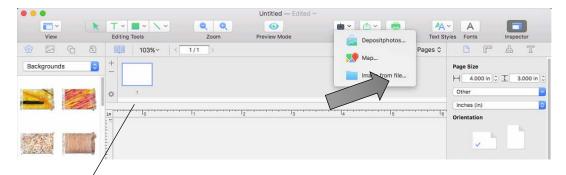
Page Size		1		
+ 4.00	0 in 🗘 I	3.0	00 in	0
Other				-
Inches (in	)			0
<b>Drientation</b>	1			
	in the second se			
✓ Simulat	e paper co	lor		
	Margins	]		
Simulat	Margins 0.000 in		00 in	0

4. Add Text, Barcodes, shapes and images to your design.





5. For this example, we will add an image that we created. Click the insert Icon and choose Image from file....



**Note**: You can also add images from the Backgrounds menu included with Swift Publisher. Simply drag them to your template.





6. Once your image is imported into your template you will need to adjust the size to fill the entire template (if that is your intention). Adjust the size by clicking the ruler icon in the Inspector with the image selected. Check the "Fit aspect ration" box and then type in your size.

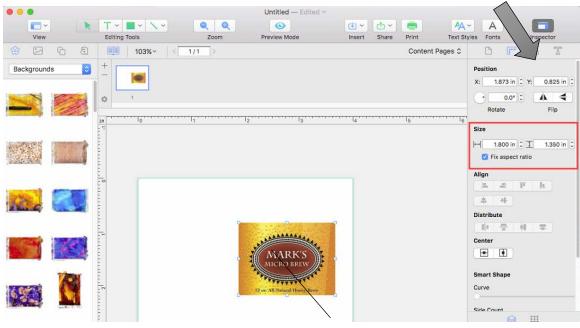
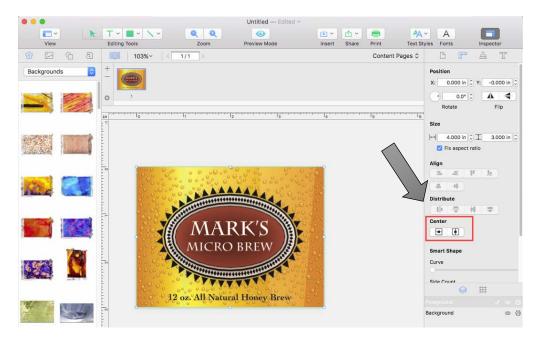


Image Selected

7. Now center the image by clicking both the horizontal and vertical centering buttons.





7. You are now ready to print. Click the Print icon to open the print dialog box.



8. The default label size is 8.5 x 11. You can see this is not correct by looking at the preview. Always adjust the Paper Size to match the label stock size installed in the printer.

Presets: Default Settings
Paper Size: Other 0 11.00 by 8.50 inches Swift Publisher 5 0
Quantity: 1 Scale to fit to paper size
 Arrangement: Horizontal
Mail Merge: Print List

9. In this case we can choose a preset size (4x3) to match the label size installed in the printer.



Choose Manage Custom Sizes... if your label size is not listed



10. You can now see the preview is correct, the paper size is set so you are ready to print.

(() 1 of 1 ))))	Printer: 0 Primera Technology Inc. Color_Label 😌
MARK'S MICRO BREW	Presets: Default Settings 🕞 Copies: 3 🗘 Pages: • All From: 1 to: 1
12 oz. All Natural Honey Brew	Paper Size: 4x3 4.00 by 3.00 inches  Orientation:  + Portrait  + Landscape Swift Publisher 5 Quantity:  Quantity:  Scale to fit to paper size Format as booklet Arrangement: Horizontal Vertical
? Hide Details	Mail Merge: Print List

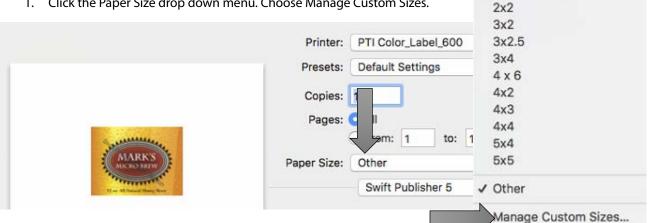


### 5F. Creating a Custom Page Size

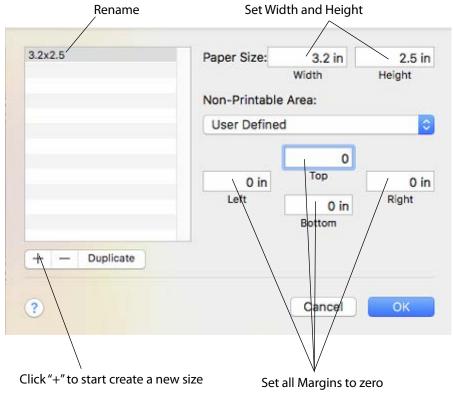
In many programs such as Adobe Illustrator, Photoshop or Acrobat Reader you will need to choose your label/page size before you print. If the label size you need to use is not already on the list of available pages sizes you will need to create a new custom size on the print screen of the program you are using to print.

2x1

1. Click the Paper Size drop down menu. Choose Manage Custom Sizes.



- 11. Click the + to create a new size.
- 12. Enter the actual width and height of your label stock.
- 13. Set all margins to zero.
- 14. Rename the size the same as the width and height.



15. Your custom size will now appear at the bottom of the preset size list in this application and any other application on this Mac.

Note: If you need to overbleed your image to achieve complete coverage of your label, you would use this process to create a custom size which is .03" (or less) larger than your actual label stock. For Example 4.03" x 3.03" for a 4" x 3" label.



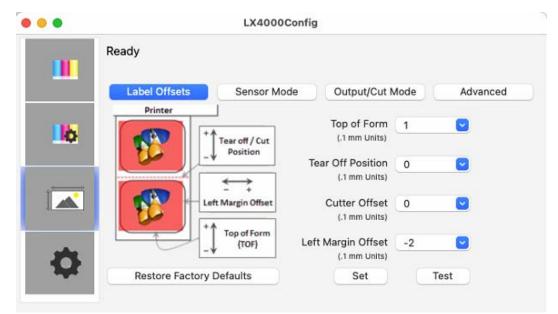
### 5G. Creating a Full Bleed Print

If you are having trouble making the image cover the entire label, first make sure the image is printing at least as big as the label size you have selected. Increase the selected page size by 7.62 cm on the width and 7.62 cm on the height to create an over bleed.

Note: Make sure under scaling options to select 'Fit to Page' in the print dialogue box if printing from Illustrator.

**Left Margin Offset.** You must decrease the Left Margin Offset to center the over bleed on the label. If you over bleed by 0,762 mm, you will need to decrease the Left Margin Offset by 4. This will center the page size increase so there is an over bleed on both the left and right sides.

**TOF.** Increase the Top of Form by 4. This will cause the printer to start printing before the label and ensure a fully printed label.



**Note:** It is best to over bleed as little as possible to avoid excess ink on the label backing. Also, over bleeding too much will cause the printer to skip labels. This is because the printer stops printing too late to sense the next label.



## 5H. Printer Driver Settings

Printer driver settings are accessible on the print window of any application right before you click print.

### **Printing from Swift Publisher**

Click on the Swift Publisher 5 dropdown menu and choose Printer Features.

≪(< 1 of 1 > )>>>	Printer: 🕕 Primera Technology Inc. Color_Label 😒
مرد می مرد مرد مرد مرد مرد مرد م	Presets: Default Settings
ALL ADV/S	Copies: 3 🗘
MARKS MICRO BREW	From: 1 to: 1
	Paper Size: 4x3 4.00 by 3.00 inches
12 oz. All Natural Honey Brew	Orientation: • I Portrait • I Landscape Swift Publisher 5
	Quantity:
	✓ Scale to fit to paper size Format as booklet
	Arrangement: O Horizontal
	Vertical
A 1of 1	Printer: Primera Technology Inc. Color_Label © Presets: Default Settings © Copies: 3 © Pages: All Paper Size: 4x3 4.00 by 3.00 inches © Orientation: • + Portrait • + Landscape Printer Features ©
	Print Quality: Quality2
	Color Matching: Vivid Photos 🧿
	Bi-directional Printing: Yes 📀
	Saturation: 85 📀
? Hide Details	PDF Cancel Print



### **Printing from Preview:**

Click on the Preview dropdown menu and choose Printer Features.

1 of 1   Printer:  Primera Technology Inc. Color_Label  Presets: Default Settings Copies:  Presets:  Presets: Presets:  Presets:  Preset:  Presets: Preset:	
Copies: 1 Pages: • All Pages: • All Paper Size: 4x3 4.00 by 3.00 inches Corientation: • +2 Portrait • +2 Landscape Preview @ Auto Rotate	
MARK'S   MICRO BREW   Paper Size:   4x3 4.00 by 3.00 inches   Orientation:   • E Landscape	
MARK'S   MICRO BREW   Paper Size:   4x3 4.00 by 3.00 inches   Orientation:   • E Landscape	
Crientation: • + Portrait • + Landscape Preview © Auto Rotate	
Crientation: • + Portrait • + Landscape Preview © Auto Rotate	
12 oz. All Natural Honey Brew V Auto Rotate	
✓ Auto Rotate	
O Scale: 100%	
Scale to Fit:     Print Entire Image     Fill Entire Paper	
Copies per page: 1	
? Hide Details PDF 💟 Cancel Pri	rint
1 of 1   Printer:  Primera Technology Inc. Color_Label  Presets: Default Settings Copies:  Presets: Default Settings Copi	
Print Quality: Quality2	
Color Matching: Vivid Photos 😒	
Bi-directional Printing: Yes 😒	
Saturation: 85 📀	
? Hide Details PDF 🕑 Cancel Pri	rint



### Printing from Adobe Reader

First click on Printer... to access settings. Click on the Layout dropdown menu and choose Printer Features.

Print	
Printer: PTI Color_Label_600 Advanced Copies: 1 0 Print in grayscale (blac	Heip ()
Copies: 1 S	k and write)
Pages to Print All Current page Pages Pages More Options	Comments & Forms Document and Markups Summarize Comments
Page Sizing & Handling ①	Scale: 101%
Size Poster Multiple Booklet	
Fit Actual size Shrink oversized pages	Print Printer: PTI Color 600
Custom Scale: 100 % Choose paper source by PDF page size	Presets: Default Settings
Orientation:  Auto portrait/landscape Portrait Landscape  Page Setup Printer	Copies: 1 Pages: • All From: 1 to: 1 Layout Pages per Sheet: 1 Layout Direction: 2 Layout Direction: 2 Layo
Print	Border: None
Printer: PTI Color_Label_600 Presets: Default Settings	Two-Sided: Off C
Copies: 1 Pages: All From: 1 to: 1 Printer Features	PDF      Hide Details     Cancel Print
Print Quality: Quality2 Color Matching: Vivid Photos Bi-directional Printing: Yes Saturation: 85 PDF Hide Details	Cancel Print



### **Print Quality**

There are 4 levels of print quality in the driver. The lower the Quality, the faster the print. Quality 1 provides the fastest print available while Quality 4 provides the best quality. It is recommended that you experiment with the different levels when designing your label to find a good balance between print quality and print speed.

#### **Colour Matching**

Best for Graphics mode is best used for graphical images where accurate colour reproduction is not as essential. Images printed in this mode will look more vibrant because more ink is being used to produce them. However, printing images of people may produce skin tones that have a reddish tint.

Best for Photos mode is best used for photographic images where accurate colour reproduction is very essential. Images printed in this mode will look lighter than those printed in Photo mode. Skin tones especially will look more natural in this mode.

**Note:** Exact colour matching of the printed labels to the screen may never be possible since there are factors that affect this out of the drivers control. The surface of the label reacts with the ink in the cartridge to produce the colour. For this reason, when printing the same image to different types of labels with different surfaces the printed output can look entirely different.

#### **Ink Saturation**

This option controls the amount of ink used when printing an image. The default setting is 100%, which will provide the most accurate colour matching. If the ink is not drying fast enough or is bleeding, you can decrease the Ink Saturation to lessen the amount of ink that is applied to the label.

#### **Enable Bidi (Bidirectional) Printing**

Set to "Yes" for fastest print speed. Requires an alignment print after every cartridge change. Set to "No" for better quality print (in some cases)



## Section 6: Troubleshooting and Maintenance

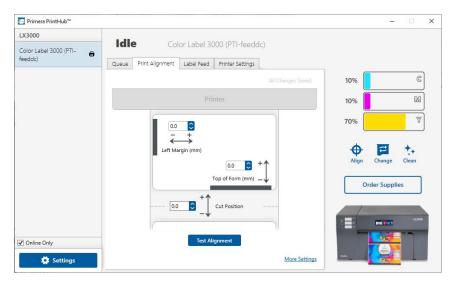
### 6A. Solving Print Alignment Problems

### Image is Vertically Offset

The LX4000e decides where to start printing by detecting the start of die-cut label, detecting a black mark on the back of the label or detecting a through-hole that corresponds to the start of the label.

The following items can cause the label sensor to improperly detect the start of a label:

1. **Top of Form (TOF).** TOF stands for Top of Form and this setting allows you to fine tune the alignment of your printing on your label stock. This will be factory calibrated. If fine tuning is needed, increase this setting to move the image down on the label; decrease this setting to move the image up on the label. The unit of measure is 0.1mm. This setting is found on the Alignment Tab of the PrintHub and Print Utility (Mac).

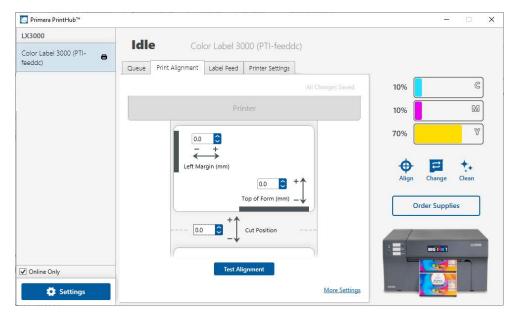


- 2. **Nonstandard / Non-translucent Backing Material.** Test the unit with the label sample material that came with the unit. If it prints correctly, your label stock may not be compatible with the Printer. The label sensor needs to see the difference between a label and a backing material by seeing through the label stock for light variations. If it cannot see through the label, problems will arise. If you must use this type of backing, try label stock that has a black mark on the back to show where the label begins. You will need to change the Stock Sensor Mode in the PrintHub or Printer Utility (Mac).
- 3. Insufficient Label Gap Distance. See Section 2A for label specifications.
- 4. **Page Size is Bigger than Label Stock Size.** If the page size set in the driver is larger than the actual label stock, ink will be printed on the gaps and the sensor will start looking for a gap too late. This can cause label skipping or inconsistent print starting points. Adjust the page size in the printer driver settings.
- 5. **Portrait / Landscape.** If the Portrait / Landscape setting does not correspond to the label stock installed this will also cause the Printer to print over the gap and onto the next label. Make sure this is set correctly.
- 6. **Stock Sensor Position.** Circular, nonstandard label shapes or multiple labels across will require precise adjustment of the label sensor. If you are using circular or other non-rectangular die-cut labels see Section 2C for instructions.

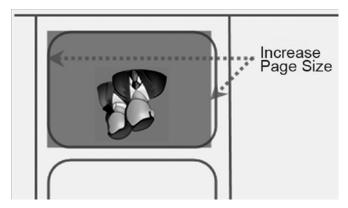


### The image is printing horizontally offset.

- 1. **Label Stock Loading.** It is very important to correctly load the label stock so that there is no space between the throat guides and the label liner edge. If there is a gap between the throat guides and the label stock it may "walk" back and forth causing inconsistent horizontal printing. See section 2B for label stock loading instructions and tips.
- 2. Left Margin Offset. This adjustment is found on the Alignment tab of the PrintHub. See Section 4D.

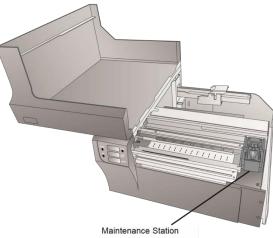


3. **Page Size.** Often the page size is not large enough for the label. If this is the case you may see white space on the right (Printer's left) side of the label and no image over-lap on the opposite side. This indicates that the page size needs to be increased. Increase the page size through the printer preferences enough to cover the label.





- 1. Many factors can affect the quality of the print. The following are listed in order from most likely to least likely:
- 2. **Quality Setting.** Change your quality setting. The lowest (and fastest printing) quality may not be sufficient for many photos or graphics. The highest quality setting may cause ink to bleed on certain graphics in combination with certain label stock. Increasing the quality increases print time because the Printer makes more horizontal movements across the label.
- 3. Clean the Cartridge. Run an automatic cleaning print or manually clean the cartridge as described in Section 6D.
- 4. **Change the Cartridge.** Try a new cartridge. Make sure that the ink cartridge has ink remaining. Check the ink levels via the PrintHub or Printer Utility (Mac).
- 5. Align Print Head. Normally, print head alignment is only necessary after changing a print head. However, in certain cases, running the alignment again can improve print quality. Align the print head by opening the PrintHub or Printer Utility (Mac). Click on the Align Print Head button on the Cartridge Utilities Tab (second tab). Follow the onscreen prompts to load your paper for alignment.
- 6. **Clean the Maintenance Station.** Power off the Printer! Gently move the cartridge to the left to access the maintenance station. Clean the maintenance station located on the right side of the print area. This includes the rubber cartridge nozzle cap and the plastic roller. Under normal use this can become dirty with ink. Clean with rubbing alcohol and a paper towel.



- 7. **Colour Matching.** Change your Colour Matching setting to Graphics or Photos via the printer driver preferences. See Section 4G or 5H.
- 8. **Media.** Make sure your label stock is inkjet printable. Many thermal label stocks look the same as inkjet but do not allow the ink to soak into the surface of the media.
- 9. **Source File Image Mode.** The image mode of the source file may be set to RGB instead of CMYK. This can cause the colour matching to be off. Change the image mode of the original file, resave and reprint.
- 10. **Copper Contacts.** Clean the copper contacts on the back of the print carriage and the contacts on the print head with rubbing alcohol and a paper towel.
- 11. **Image Resolution (DPI).** Try another Image. Perhaps the resolution of the current image is not sufficient for a quality print. Many graphics suitable for viewing onscreen have a DPI of 72. This is the minimum DPI for proper screen display. However, if you print this image it will look blurry and pixilated. 72 is a typical DPI for images or graphics saved from web sites. We recommend a 300 DPI image.
- 12. **Cable.** Try another USB cable. Make sure that it is less than 6ft (2 Meters) long. Faulty cables or cables that are too long interrupt communications which can result in print quality issues.
- 13. Saturation. If ink is bleeding, decrease saturation in driver preferences.



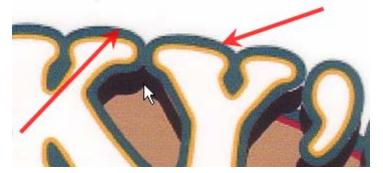
### 6C. Colour Matching and Design Tips

Whether you contract your graphic design or do it yourself, these guidelines will help you get the best quality labels out of your LX4000e.

1. Image Size/Shape. The image size should correspond with the size of the label you will be printing.

**Note:** If the source image is smaller and must be enlarged to fill the entire label space, this will affect the DPI. A 2" x 2" 300 DPI label blown up to fit on a 4" x 4" label would have an effective DPI of 75. This would not be a sufficient resolution. See item 2.

2. Resolution. Resolution is measured in dots per inch or dpi. 300 DPI is sufficient to get the best possible quality from most images. A 72 DPI image will look fine on screen but WILL NOT print well. Graphics and logos found on websites are typically 72 DPI. The image below was printed from a 72 DPI image. Notice the jagged edges. Remember, print quality settings found in the label printer driver will have no effect on improving a low DPI source image. On the other hand, resolutions higher than 300 DPI will not produce better quality but may require more RAM to print and hard drive space to store. They could even slow down the print process.



- 3. 72 DPI Image printed with the LX4000e
- 4. **Image File Format.** Most graphics are created in a graphic application. Since this graphic application is not usually on the same computer as the label printer doing the printing, it is necessary to export the graphic into a universal format that can be read by other programs. We recommend TIF and BMP files for graphics. These formats are uncompressed. JPG files also work well for graphics that include photographs. All three formats can be imported into the BarTender application.
- 5. **Colour Mode.** Set the colour mode in the source graphic application to CMYK. In most cases this will produce the most accurate colour reproduction of the image on screen. However, if CMYK is not producing the desired colour matching try changing the source image to RGB and then exporting the image again in one of the universal formats mentioned above.

**Note:** Often it is useful to request that your graphic designer provide you with several different formats for you to try printing. For example you could request your image in six different formats: A JPG, BMP, and TIF in RGB colour mode and a JPG, BMP and TIF in CMYK colour mode.

6. **Colour Matching Setting.** Experiment with the Colour Matching setting in the printer preferences (Section 4G or 5H) to achieve the best colour matching. There are multiple media type options which correspond with the various types of label stock sold by Primera. Match this setting to the media installed in the Printer to achieve the closest colour match to the screen. Each of these settings employs a slightly different colour table developed specifically for the media type listed.



### 6D. Poor Print Quality – Cleaning the Print Head

It may be necessary to clean the Print Head nozzles if you notice reduced print quality, or if you suspect a cartridge nozzle has become slightly dried out or clogged. If the print head has been left out of the printer more than 30 minutes or the printer has been unused for several weeks, the ink in the print head nozzles may have dried. If you are having print quality problems, follow the steps below:

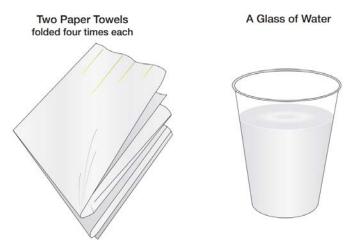
#### **Important Notes:**

- You may open and close the lid up to 8x times before the print head will lose its prime and need to be replaced. Each time you open the lid, air is introduced into the system and transferred inside the printhead. The print head has 17 ml of space and initially carries 3ml of air. You may open the lid 8 times before there is not enough space for ink and the print head loses its prime.
- To keep the printhead ready for printing, do not remove it from the printer and keep the printer powered on. The LX4000e will occasionally clean the nozzles but only if it remains powered on. This will minimize the need for the manual cleaning described below.
- Watch this video to view an alternate cleaning method.

LX3000		
Color Label 3000 (PTI-	Printing Color Label 3000 (PTI-feeddc)	
feeddc)	Queue Print Alignment Label Feed Printer Settings	
	Queued Jobs:	20%
	Name identifier	20%
	*Untitled - Notepad 32	20%
	Cancel All Jobs	Low
	Past Jobs:	
	Name Prints Print Cost <sup>1</sup> Prints per Prints Cartridge <sup>1</sup> Remaining <sup>1</sup> Quote	⊕
	*Untitled - Notepad 24 \$0.2475 762 95	Align Change Clean
	Restore Default \$64.95 per Cartridge	
	the second secon	
Online Only		

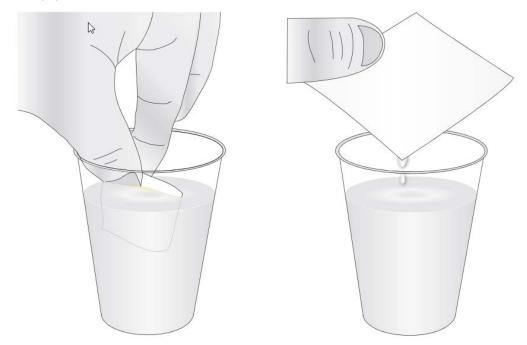
1. First Try cleaning the cartridge using the clean function in PrintHub.

- 2. Determine if printing is now acceptable by printing your image. If the sample has missing colours or voids within a colour strip, remove the cartridge from the printer and proceed to step 4.
- 3. Prepare items needed for the procedure

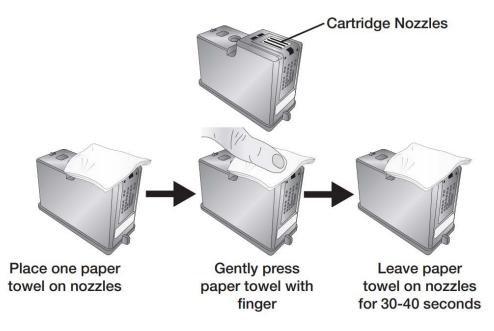




4. Soak the paper towels in water for 5 seconds.

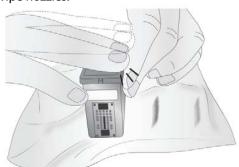


5. Place one paper towel on cartridge nozzles. Gently press the paper towel with your finger. Leave the paper towel on the nozzles for 30-40 seconds.





### 6. Wipe nozzles.





- a. Place second paper towel on flat/hard surface.
- b. Press the nozzles into the paper towel.
- c. Firmly tap the top of the cartridge three times to force the ink out.
- d. Wipe/Drag the cartridge in the direction indicated.
- e. Repeat until all colours are seen on the paper towel. After wiping the nozzles, the paper towel should show all three colours. If all three colours are present, proceed to step 8. If the paper towel doesn't show all three colours, then repeat step 7. If paper towel still doesn't show all three colours repeating step 7, then replace the cartridge.



7. Dry the cartridge.



Dry excess water from cartridge. Ensure cartridge contacts are completely dry. Printer damage may result if cartridge contacts are not completely dry.

8. Verify cartridge is now functioning properly by printing your label.



## 6E. Interpreting the Indicator lights

Most error messages will appear on your computer screen via the PrintHub application or the Printer Utility (Mac). However, if the error prevents communication with the computer the LED lights may be used to help diagnose the problem.

LED	Explanation
Intermittent Flashing	Printer is doing maintenance.
Pause	Appears during start up or after a cartridge change.
Slow Flashing Power	Missing Label Stock.
Solid Power Light	Power is on.
Rotating Ink, Power	Firmware update or start up sequence is in progress - do
and Pause LEDs	not remove power or USB until flashing stops.
Simultaneous Pause and Ink Flashing	Print head is not being recognized. Clean contacts or replace the print head.

### 6F. Technical Support

If you have difficulties in operating your Printer, the procedures in this manual and the software User's Guide should, in most cases, solve the problem. If you still have difficulty, contact the technical support using one of the methods listed below.

Source	Location/Hours
Primera Knowledge Base	www.primera.com/kb
BarTender Software Help files	Open the software. Click on the Help Menu – Contents
Email Support	support@dtm-print.eu
Chat Support	<u>dtm-print.eu</u> – look for the chat prompt on lower right Monday – Thursday 9:00 to 17:00 and Friday 9:00 to 15:00
Online Support	support.dtm-print.eu fill out the online support form



# Section 7: Technical Specifications

Print Method: Print Resolutions: Print Speeds:	Thermal inkjet Up to 4800 DPI Draft Mode: 114.3 mm (4.5") per second Normal Mode: 45.72 mm (1.8") per second High Quality Mode: 20,32 mm (0.8") per second
Print Head: Ink Tanks:	Replaceable Multi-Use Print Head 60 ml Cyan, Magenta, Yellow individual ink tanks; process black
Colours:	16.7 million
Colour Matching:	ICC colour profiles for all Primera-supplied media. Ability to add custom ICC colour profiles for other media types.
Print Width:	13 mm (0.5") to 210 mm (8.25")
Media Width:	38 mm (1.5") to 212 mm (8.375")
Media Types:	Roll-fed pressure-sensitive labels, roll-fed
	tags, fan-fold labels or tags
Media Sensing:	Moveable see-through sensor for die-cut labels; reflective sensor for labels and tags with black stripe; can use continuous and pre-printed labels and tags
Supply Roll:	152 mm (6") maximum diameter on 76 mm (3") core
Ink Level Warning:	Calculates actual number of prints remaining
	based upon ink usage of graphics being printed
la dicator Liabto	(patent-pending)
Indicator Lights: Controls:	Power, Pause, Ink Pause, Load/Feed, Unload
Operating Systems:	Window 7, 8, 10, Mac OS 10.11 – OS 12
Data Interface:	USB 2.0
	Ethernet
Label Design Software:	Seagull Scientific BarTender <sup>®</sup> UltraLite Software
	Version included; can also be used with most other popular label design and graphics
Electrical Rating:	programs 12VDC, 5.0A
Power Requirements:	100-240VAC, 50/60 Hz, 60 watts
Certifications:	UL, UL-C, CE, FCC Class A
Weight:	36.5 lbs. (16.6 kg)
Dimensions:	17.25"W x 9.1"H x 17.25"D

(438 mm W x 231 mm H x 438 mm D)



## **Environmental Policy**

The European Union (EU) has developed the WEEE (Waste Electrical and Electronic Equipment) Directive (WEEE Directive 2012/19/EU) to ensure that systems for collection, treatment, and recycling of electronic waste will be in place throughout the European Union.

Electrical and electronic equipment (EEE) contains materials, components, and substances that may be hazardous and present a risk to human health and the environment when waste and electronic equipment (WEEE) is not handled correctly.

Equipment marked with the below crossed-out wheeled bin is Electrical and electronic equipment (EEE).

The crossed-out wheeled bin symbol indicates that the product is EEE and must be collected separately, in accordance with the WEEE Directive 2012/19/EU.



Users of EEE must not discard WEEE together with household waste. Users must follow local recycling regulations to reduce adverse environmental impacts in connection with disposal of WEEE and to increase opportunities for reuse, recycling, and recovery of WEEE. As a user of this EEE, you have an important role in recycling this equipment and contributing to the protection of the environment and the conserving of natural resources.

When a product reached its end of life, contact us at sales@dtm-print.eu to arrange its recycling. DTM will work with you to arrange for the recycling of the product.

