THERMAL TRANSFER / DIRECT THERMAL LABEL PRINTER

USER'S MANUAL



Agency Compliance and Approvals

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EN 55032, Class A EN 55024

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

FCC part 15B, Class A

FC

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. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Environmental protection



Do not dispose of this product in an unsorted public trash can. You should recycle this product according to local regulations.

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1. Introduction

• Applications

o Manufacturing & Warehousing	o Healthcare
Work in Progress	 Patient Identification
Item Labels	Pharmacy
Instruction labels	 Specimen Identification
 Agency labels 	o Retail Marking
 Compliance labels 	Price tags
Logistics management	Shelf labels
labels	Jewelry tags
 Electronics labels 	 Asset management labels
o Parcel Post	Care labels
Shipping/ Receiving Labels	o Small Office/ Home Office

3

1.2 Product Features

1.2.2 Printer Optional Features

Product option feature	User	Dealer	Factory
	options	options	options
Peeler module		0	0
Regular full cut cutter (Guillotine cutter)		0	0
Media thickness: 0.06~0.19 mm			
Media type: receipt and label liner w/o glue			
Regular full/partial cutter (TextileCare Cutter)		0	0
linerless cutter		0	0
Internal Bluetooth module		0	0
Internal WIFI module		0	0
Internal Bluetooth and WIFI module		0	0

NOTE : Except for the linerless cutter, all regular/heavy duty/care label cutters DO NOT cut on media with glue.

2. Operations Overview

2.1 Unpacking and Inspection

This printer has been specially packaged to withstand damage during shipping. Please carefully inspect the packaging and printer upon receiving the bar code printer. Please retain the packaging materials in case you need to reship the printer.

Unpacking the printer, the following items are included in the carton.

- One printer unit
- One quick installation guide
- One power cord
- One external universal switching power

- One USB interface cable
- 1inch core ribbon shaft for 300m ribbon
- One sample ribbon and Label roll
- One Windows labeling software/Windows

supply

driver CD disk

If any parts are missing, please contact the Customer Service Department of your purchased

reseller or distributor.



2.2 Printer Overview

2.2.1 Front View

PH44(Contains LED indicator's function introduction)



Operation buttons			
Buttons	Function		
FEED / PAUSE / ERROR	In the ready state, press this button, the printer will spit a sheet		
CANCEL button	of paper, in the printing state, press this button, the printer will		
	stop immediately, in the error state, press this button, the		
	printer will cancel the error state and restore printing function.		

LED Indicator				
Online 🕛				
	Error			
	Ribbon See			
	Comm.			
Event	Description			
Thermal transfer mode	Blue(ONLINE) and Green(RIBBON) solid, and the device is ready to use.			
ready				
Direct thermal mode	Blue(ONLINE) solid, and the device is ready to use.			
ready				
Open cover	When the cover is open, a beep sound will be made, and Blue(ONLINE),			
	Red (ERROR), and Green(RIBBON) will flash.			
PAUSE	Press the PAUSE button. When the Blue(ONLINE) flash, the printer will			
	pause.			
FEED	Press the FEED button to print as per demand, Blue(ONLINE) will flash.			
Out of paper	When out of paper, a beep sound will be made, and Red(ERROR) flash			

Out of ribbon	When out of ribbon, a beep sound will be made, and Red(ERROR)
	solid · Green(RIBBON) flash
Label gap/black mark	When label gap/black can't be found, a beep sound will be made, and
error	Red(ERROR) Blue(ONLINE) flash
Cutter error	When cutter can't be found, a beep sound will be made, and
	Blue(ONLINE) < Red(ERROR) Both flash alternately, flash with
	Green(RIBBON)
Print head overheated	When print head overheated ,a beep sound will be made, and
	Blue(ONLINE)and Red(ERROP) alternately flash
Other errors	When other errors ,a beep sound will be made, and Red(ERROP) and
	Green(RIBBON) alternately flash
Ethernet ready	When the RJ45 network cable is plugged in and the connection is
	normal, the Orange(COMM) flash
WIFI ready	When the WIFI's AP or STA mode is connected, the orange(COMM)
	solid
Ethernet +WIFI ready	When the RJ45 network cable is plugged in, and the connection is
	normal, and the WIFI's AP or STA mode is connected, the orange
	(COMM) will be solid for 2 seconds and the orange(COMM) flash.



2.2.2 Interior View all Series (Contains Eco-friendly printing solutions introduction)

- 1. Printer top cover
- 2. Top cover open tab
- 3. The place for new ribbon
- 4. top cover support
- 5. Media guide
- 6. Gap sensor
- 7. Black mark sensor
- 8. Platen roller
- 9. Media holder locker
- 10. Fixing tabs



2.2.3 Front View (All Series)



Paper tearing edge Front bezel; Accessory assembly (Cutter /

2.2.4 Rear View (All Series)



- 1. Power jack socket
- 3. USB host (For USB keyboard or
- 4. RJ-45 Ethernet interface
- 7. External label entrance chute

3. Setup

3.1 Setting up the Printer

Place the printer on a flat, secure surface, then follow the steps below:

1. Plug the power cord into the AC power cord socket at the rear of the printer. Then, plug the

other side into a properly grounded power outlet.

2. Connect the printer to the computer with the provided USB cable.

3. Push the power switch on "-" side to open the power of printer.

NOTE:

- * Please switch OFF printer power prior to plugging in the power cord to printer power jack.
- * The interface picture here is for reference only. Please refer to the product specification for the interfaces availability.



3.2 Install Printer Driver (All Series)





← Settings	General Sharing Ports Advanced Color Management Security
Home Printers & scanners	Seanscha Gainscha
Find a setting P Devices Canon MG3600 series Printer WS	Print to the following port(s). Documents will print to the first free checked port.
 Bluetooth & other devices Printers & scanners Mouse Typing Microsoft Print to PDF Pen & Windows Ink Microsoft XPS Document Writer AutoPlay USB OneNote 	Port Description Printer COM4: Serial Port COM5: Serial Port COM6: Serial Port FILE: Print to File WSD-1 WSD Port Canon MG3600 series Printer WS WSD-d WSD Port Brother MFC-L2715DW series USB001 USB Gainscha Add Port Delete Port Configure Port Enable bidirectional support Enable printer pooling
 11. Users can check whether the installation is completed through the following ways: a. If Windows 10, check from [Windows Settings] → [Devices] → [Printers and Scanners]. b. Check from [Control Panel] → [Devices and Printers]. 	 12. Users can change printer interface through the following ways: a. In Windows 10, [Windows Settings] → [Printers and Scanners] → [Devices] → select the corresponding printer model → [Management] → [Printer Content] → [Port] to change different USB port / COM port as per need. b. From [Control Panel] → [Devices and Printers] → select the corresponding printer model → right-click → [Printer Content] → [Port] to modify it.

3.3 Loading the Ribbon

	Catal		
1.	Insert black ribbon roller into new	2.	Load ribbon left side first and then right
	ribbon.		side, fix it well.
3.	Insert blue ribbon roller into the empty	4.	Open the font cover.
	roll for ribbon collecting after printed.		
5.	Load the empty roll left side first, then	6.	Pull out ribbon and stick into the empty
	right side.		roll. Make sure ribbon is flat and smooth
			when touch print head.
7.	Close the font cover.	8.	Carefully close top cover.
L			

3.4 Loading the Media

3.4.1 Loading the Roll Labels

1.	Press two buttons on printer two sides to lift and open the cover.	2. Load print media into the printer; adjust the paper guide to be same width of print media.
3.	Pull out the print media till it pass gap ser media loading.	sor and cutter (cutter is optional), complete

3.4.2 Ribbon and print media loading diagram



3.5 Loading the Cutter





- Align the cutter with the tenon, and place the wire of the cutter into the hole
- 4. When attaching the cutter, take care not

to press it on the wire, lock the cutter with the screw, and cover the upper

5. After closing the upper cover, turn the printer upside down, remove a screw located on the bottom cover, and open the bottom cover.



3.6 Loading the Peeler





- Align the peeler with the tenon and place the wire of the peeler into the hole.
- When closing the peeler, be careful not to press it on the wire, and lock the peeler with screws.



Turn the printer upside down, remove
 a screw located on the bottom cover,
 and open the bottom cover.



 After opening, pull out the wire just put into the hole and insert it into the wafer 1x10P on the main board.



Note: Please clamp the label roll with the fixing tabs and clamp the media with the media

guide, so as not to cause the media to roll into the peeler and cause the phenomenon that the

media cannot be peeled off.

4. Button Functions

4.1 Regular Button Functions

This printer has one button for feed, pause or cancel errors. There are different functions

Button	Printer status	Function	Description	
Feed button	Ready	Feed	When the printer is ready (Blue LED ON), press this button once, and the label will advance to the front of	
			the next label	
Feed	Wait for push	Print next	When the button Demand function is activated, the	
button	button to		printer will stop after printing and wait for the user to	
	print		press this button before printing the next label.	
Feed	Print mode	Pause	When the printer is printing continuously, pressing	
button			the (PAUSE) button will pause printing. The power	
			indicator is blue flashing. Just press the button	
			again, and the print job returns to normal.	
Feed	Error	Cancel error	When the error RED is on, press the (PAUSE) button	
button	occurred		once, the printer will cancel the error and resume	
			printing function, and reprint the label layout when	
			the error occurs.	

in different modes, as shown in the following table:

4.2 Power-on Utilities

This printer has six power-on functions for setting or testing the printer's hardware. Press these buttons at the same time when the power is turned on, and release the buttons with the light signal to activate these functions.

Follow these steps to enable the boot function:

Event	Description	Status	Веер
		lights	
Self-test	A. Power off the printerB. Make sure the printer is loaded with paper and close the printer coverC. Press and hold the FEED button, and turn on the printer power. Whenthe ribbon Green solid alone, release the button. At this time, the printerwill print a self-test page after turning on the printer.		4 3)
Enter USB storage device function	A. Power off the printerB. Make sure the printer is loaded with paper and close the printer coverC. Press and hold the FEED button and turn on the printer power. Whenthe comm. Orange solid alone, release the button. At this time, theprinter's storage device will appear on the computer.		4 0)
Enter dump mode	 A. Power off the printer B. Make sure the printer is loaded with paper and close the printer cover C. Press and hold the FEED button, then turn on the printer. When the online Blue and the error Red are on at the same time, release the FEED button, and the printer is now turning on After the printer, a beep is heard, and the printer enters the dump mode at this time, and it will print out "NOW IN DUMP MODE" 		()
Skip AUTO.BAS	A. Power off the printerB. Press and hold the FEED button and turn on the printer's power. When the error Red solid alone, release the button. At this time, the printer will hear two beeps after turning on the printer, and the printer will skip AUTO.BAS program		4 1)
Printer initialization	 A. Power off the printer B. Press and hold the FEED button and turn on the printer power. When the online Blue solid alone, release the button. At this time, the printer will hear five beeps after turning on the printer, and the printer will print the meter parameters are restored to the factory default settings 		4 1)
Ribbon inspection	The machine will automatically detect the status of the ribbon after turning on and in each thermal transfer printing mode.		

5. PrinterUtility

Printer Utility is an integrated tool software that helps users query printer settings and status, change printer-related settings, and send commands or files to the printer.

5.1 Start the PrinterUtility

- 1. Please mouse over Printer Utility icon 💻 Printer Utility.exe image Double click left mouse button.
- 2. After opening the main screen, you can see the following function items:

(8) Exit

(1) Port Settings

(5) Command Tool

- (2) Printer Information (6) Language
- (3) Printer Configuration (7) About
- (4) Printer Function



5.2 Printer Function

1. Click the Printer Configuration and APrinter Setup Can open and close the printer general settings

screen.	

Printer Configuration	Printer Function	Command Tool
Printer Setup		
Sensor Setup		
Bluetooth Setup		
▶ RS232 Setup		
Ethernet Setup		
Setting File		
[▶] Unit		

2. Click the Load Button to bring out all printer general setting information through the selected communication interface. Click the Set button to write the setting value to the printer (please execute the reading function before writing).

Printer Setup			
Speed	5 💌	Direction	Top out
Density	7	Mirror	Yes 💌
Thermal Mode	Thermal Tansfe 🔛	X Offset(mm)	0
Label Type	Gap Label	Y Offset(mm)	0
Label Width(mm)	99.4	Draw Reverse	No
Label Height(mm)	76	After Print	Normal
Gap Distance(mm)	3	On Demand	Off 🔽
Gap Offset(mm)	0	Cut Number	1
BLine Thickness(mm)	3	Cut Action	Cut Every Label
BLine FeedLen(mm)	0	Cut Mode	Partial Cut
Continue Offset(mm)	0	Gap Sensor	By Label
Cover Close	Auto Feed		
Generic Default			Load Set
Gap Sensor Setup			
Setting File			

6. Troubleshooting

6.1 Common Problems

The following guide lists the most common problems that may be encountered when operating this bar code printer. If the printer still does not function after all suggested solutions have been invoked, please contact the Customer Service Department of your purchased reseller or distributor for assistance.

Problem	Possible Cause	Recovery Procedure
Power indicator does not illuminate.	• The power cord is not properly connected.	 Plug the power cord in printer and outlet. Switch the printer on.
Out of ribbon	Out of ribbon.The ribbon installation path is incorrect.	 Install new ribbon. Follow the steps for installing the ribbon to reinstall.
Out of paper	 Out of paper. The paper installation path is incorrect. Gap / black mark sensor detection is incorrect. 	 Install new paper. Follow the steps for installing the paper to reinstall. Recalibrate the label sensor.
Paper jam	 Gap / black mark sensor detection is incorrect. The label size is set incorrectly. Label may be blocked inside the printer. 	 Recalibrate the label sensor. Set the correct label size. Cleaning the inside of the printer.
Unable to print	 Cable is not well connected to serial or USB interface or parallel port. 	 Re-connect cable to interface. Change a new cable. Ribbon and media are not compatible. Verify the ribbon-inked side. Reload the ribbon again. Clean the print head. The print density setting is incorrect. Print head's harness connector is not well connected with printhead. Turn off the printer and plug the connector again.

 incorrectly. Dust or adhesive accumulation on the print head. Print density is not set properly. Printhead element is damaged. Ribbon and media are incompatible. 	 Clean the print head. Clean the platen roller. Adjust the print density and print speed. Run printer self-test and check the print head test pattern if there is dot missing in the pattern. Change proper ribbon or proper label media. The print head mechanism does pattern the print head mechanism does
 Label size is not specified properly. Sensor sensitivity is not set properly. The media sensor is covered with dust. Media sensor sensitivity is not 	 not latch the print head properly. Check if label size is setup correctly. Calibrate the sensor by Auto Gap or Manual Gap options. Clear the GAP/Black mark sensor by blower. Calibrate the sensor sensitivity
 Label size is incorrect. The vertical offset setting in the driver is incorrect. 	 again. Set the correct label size and gap size. If using the software BarTender, please set the vertical offset in the driver.
• Wrong label size setup.	• Set the correct label size.
 Ribbon installation is incorrect. Media installation is incorrect. Print density is incorrect. Media feeding is incorrect. 	 Please set the suitable density to have good print quality. Make sure the label guide touch the edge of the media guide.
 The print head is dirty. The platen roller is dirty. The printer is in Hex Dump mode. 	 Clean the print head. Clean the platen roller Turn off and on the printer to skip
	 Dust or adhesive accumulation on the print head. Print density is not set properly. Printhead element is damaged. Ribbon and media are incompatible. Label size is not specified properly. Sensor sensitivity is not set properly. The media sensor is covered with dust. Media sensor sensitivity is not set properly. Label size is incorrect. The vertical offset setting in the driver is incorrect. Wrong label size setup. Ribbon installation is incorrect. Media installation is incorrect. Print density is incorrect. The print head is dirty. The platen roller is dirty.

7. Maintenance

This session presents the clean tools and methods to maintain your printer.

- 1. Please use one of following material to clean the printer.
 - Cotton swab
 - Lint-free cloth
 - Vacuum / Blower brush
 - 100% ethanol
- 2. The cleaning process is described as following,

Printer Part	Method		
Print Head	1. Always turn off the printer before cleaning the print head.		
	2. Allow the print head to cool for a minimum of one minute.		
	3. Use a cotton swab and 100% ethanol to clean the print head surface.		
	Print Head		
	Print Head Element Head Cleaner Pen		
Platen Roller	 Turn the power off. Rotate the platen roller and wipe it thoroughly with 100% ethanol and a cotton swab, or lint-free cloth. 		
Tear Bar/Peel Bar	Use the lint-free cloth with 100% ethanol to wipe it.		
Sensor	Compressed air or vacuum		
Exterior	Wipe it with water-dampened cloth		
Interior	Brush or vacuum		

NOTE:

- Do not touch printer head by hand. If you touch it careless, please use ethanol to clean it.
- Please use 100% Ethenol.DO NOT use medical alcohol, which may damage the printer head.
- Regularly clean the print head and supply sensors once change a new ribbon to keep printer performance and extend printer life.
- The maximum printing ratio per dot line is 15% for this printer. To print the full web black line, the maximum black line height is limited to 40 dots, which is 5mm for 203 DPI resolution printer and 3.3mm for 300 DPI resolution printer.