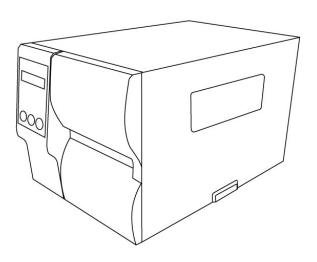


iX6 Pro Series Printer User Manual





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Reorient or relocate the receiving antenna.

Increase the separation between the equipment and the receiver.

Connect the equipment into a different outlet on a different circuit.

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This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to ensure compliance. The user is cautioned that any changes or modifications not expressly approved by Argox Information Co., Ltd. could void the user's authority to operate the equipment.

This is a Grade A product. In living environment, the product may cause interference to radio communications. In this case, the user is encouraged to try to correct the interference by effective measures.

設備名稱:條碼印表機型號(型式): iX6-250 Pro Equipment name Type designation (Type)								
	限用物質及其化學符號 Restricted substances and its chemical symbols							
單元Unit	鉛Lead (Pb)	汞Mercury (Hg)	鎬 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr+6)	多溴聯苯 Polybrominat ed biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)		
印刷電路 板組件	_	0	0	0	0	0		
機殼	_	\circ	\circ	\circ	\circ	\circ		
線材	\circ	\circ	\circ	\circ	0	0		
變壓器		\circ	\circ	\circ	\circ	\circ		
印字頭模組	_	0	0	0	0	0		

備考1. "超出0.1 wt %"及"超出0.01 wt %"係指限用物質之百分比含量超出百分比含量 基準值。

Note 1: "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. "○"係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2: "\[O"\] indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. "—"條指該項限用物質為排除項目。

Note 3: The "-" indicates that the restricted substance corresponds to the exemption.

警告使用者:

這是甲類的資訊產品,在居住的環境中使用時,可能會造成射頻干擾,在這種情況下,使用者會被要求採取某些適當的對策。



警告 危險可動部件請遠離手指及身體其他部位。



Caution

Ensure to connect the power cord of power adapter to a socket-outlet with earth connection.

CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions.

ATTENTION: Risque d'explosion si la batterie est remplacée par un type incorrect. Mettre au rebus les batteries usagées selon les instructions.

Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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1 Introduction Features

1 Introduction

Thank you for purchasing an Argox iX6 Pro Series industrial barcode printer. This manual provides information about how to set up and operate your printer, load media, ribbon and solve common problems. Illustrations are provided to help you quickly become familiar with the printer.

1.1 Features

Fast Print Speed

Max. 6 IPS, completely satisfy the demands in its class.

Communication

Standard: Ethernet, dual USB hosts, USB device, and RS-232.

Option: Wi-Fi, GPIO, and Parallel

Online management

Web management and SNMP v2 support

Dual USB host function

Stand-alone mode of scanner/ keyboard multiple data entry devices

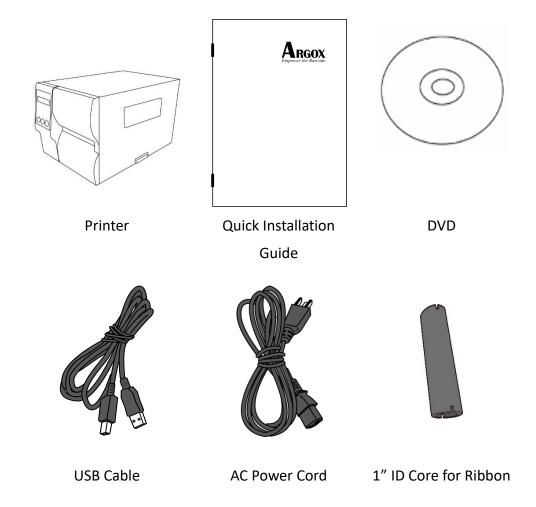
New media calibration

Intelli mode & Smart mode

1 Introduction Unpacking

1.2 Unpacking

Make sure all of the following items are included in your package.



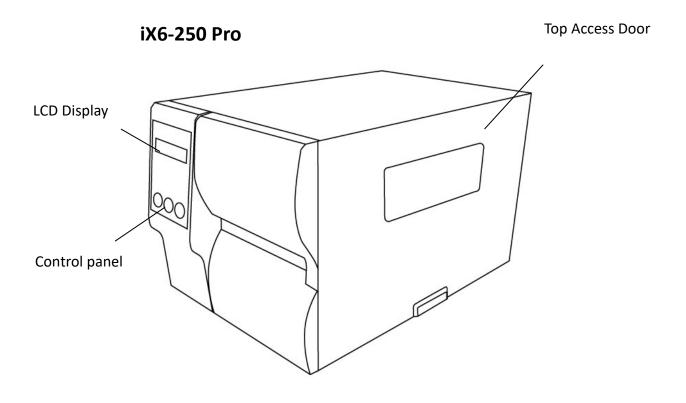
When you receive the printer, open the package immediately and inspect for shipping damage. If you discover any damage, contact the shipping company and file a claim. Argox is not responsible for any damage incurred during shipping. Save all package materials for the shipping company to inspect.



Note If any item is missing, please contact your local dealer.

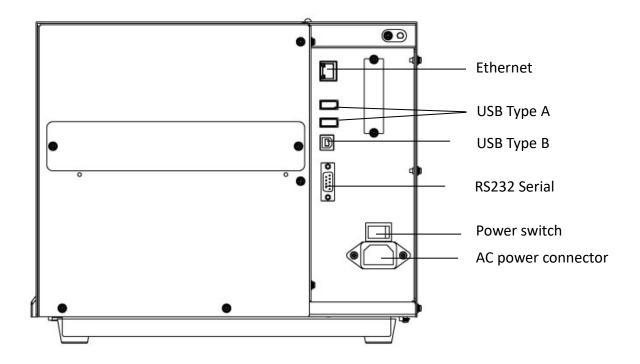
1.3 Understand your printer

1.3.1 Perspective view

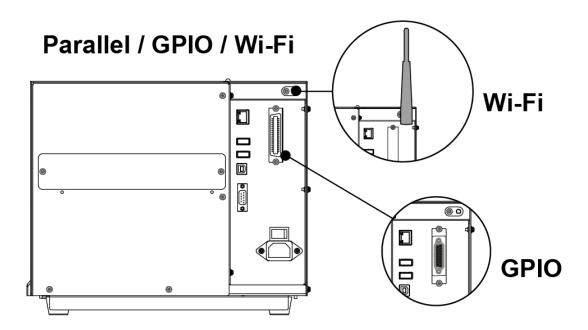


1.3.2 Back view

iX6-250 Pro Standard

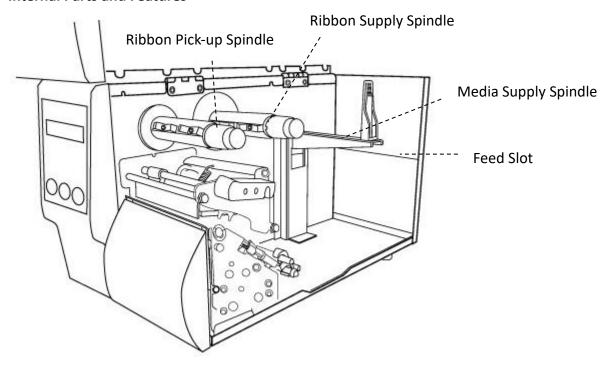


iX6-250 Pro Optional

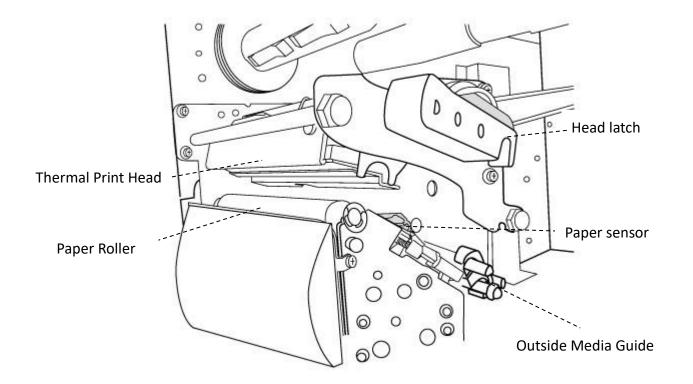


1.3.3 Interior view

Internal Parts and Features



Rotate Head Latch



1 Introduction Printer control panel

1.4 Printer control panel

There are three LEDs on the front panel - READY, MEDIA and RIBBON. These indicators display operation status of the printer. Three Buttons – FEED, PAUSE, and CANCEL can control printer simple functions.

1.4.1 Status LEDs

Status LEDs help you check printer's conditions. The following tables show the status LEDs and the conditions they indicate.

LCD Display	READY	MEDIA	RIBBON	Description
READY	ON	ON	ON	In the ready mode
PRINT HEAD HEAT	ON	Blinking	ON	Print head needs to cool down.
COMMAND	ON	Blinking	Blinking	A command error was found while
ERROR				checking the command sequence.
EEPROM	ON	Blinking	Blinking	An EEPROM for back-up cannot be
ERROR				read/written properly.
MEMORY ERROR	ON	Blinking	Blinking	· An error has occurred in writing
				data into USB memory or flash memory.
				· An erase error has occurred in
				formatting USB memory or flash memory.
				· Saving failed because of the
				insufficient capacity of USB
				memory or flash memory.
				· Firmware update has error.
CANCEL	Blinking	ON	ON	Press CANCEL KEY to interrupt and
				delete a print task

1 Introduction Printer control panel

LCD Display	READY	MEDIA	RIBBON	Description
CLEAR FLASH	Blinking	ON	ON	Clear flash memory.
CUTTER FAILED	Blinking	ON	ON	Cutter has failed, or there is paper jam inside the cutter.
MEMORY FULL	Blinking	ON	ON	Printer buffer is full caused by the loaded soft fonts, graphics or forms.
MEMORY INITIALIZED	Blinking	ON	ON	USB Memory is being initialized.
PAUSE	Blinking	ON	ON	Printer is in PAUSE status. Media sensor cannot index label gaps
PRINTHEAD BROKEN	Blinking	ON	ON	Head broken error
PRINT HEAD OPEN	Blinking	ON	ON	Head latch is not closed.
RESET	Blinking	ON	ON	Press CANCEL KEY + POWER ON to reset NVR table.
SERIAL IO ERROR	Blinking	ON	ON	The format or baud rate of the RS232 communication is inconsistent between the printer and host.
SELF TEST	Blinking	ON	ON	Press FEED KEY + POWER ON to print the self-test label.
UPGRADING FW.	Blinking	ON	ON	Printer is receiving data
RIBBON OUT	Blinking	ON	Blinking	Ribbon is not installed or end-of-ribbon occurred.
CALIBRATION .	Blinking	Blinking	ON	Press PAUSE KEY + POWER ON to calibrate media.

1 Introduction Printer control panel

LCD Display	READY	MEDIA	RIBBON	Description
MEDIA OUT	Blinking	Blinking	ON	Media is not installed or used up.
				Printer fails to detect the media
				gap. The media sensor is out of
				range during calibration. The label
				has run out. The last label has been
				issued normally and the label has
				run out.
PAPER JAM	Blinking	Blinking	ON	A paper jam occurred during paper
				feed.

1.4.2 Buttons

There are three buttons, each with two basic functions.

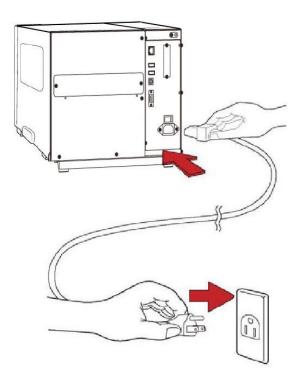
Button	Function 1	Function 2	
FEED	• Feed a label		
PAUSE	Pause printing	Press again to resume printing	
CANCEL	Interrupt and delete a print task	 Force printer to continue after an error is solved. 	

2 Get started

This chapter describes how to set up your printer.

2.1 Attach the power cord

- 1. Make sure the power switch is set to the **OFF** position.
- 2. Place the printer within cable distance from the host (USB or Serial cable.).
- 3. Isolate the power cord from other electrical cables.
- 4. Plug the other end of the AC power cord into the wall socket.





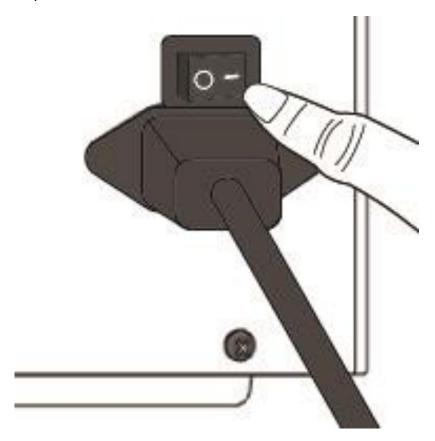
Warning Do not plug the AC power cord with wet hands, or operate the printer and the power supply in an area where they may get wet. Serious injury may result from these actions!

2.2 Turn on/off your printer

When your printer is connected to a host (a computer), it is good to turn on the printer before turning on the host, and turn off the host before turning off the printer.

2.2.1 Turn on your printer

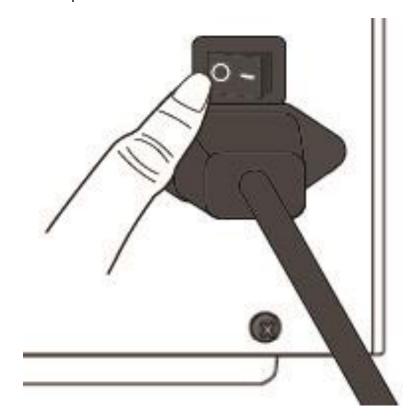
 To turn on your printer, turn on the **Power Switch** as below. The "I" is the ON position.



READY \ MEDIA and RIBBON LEDs are solid blue. Then READY LED turns
off for few seconds while LCD screen shows firmware version. LCD
screen will show Ready to print and READY LED will back to solid blue.

2.2.2 Turn off your printer

- 1. Make sure READY \ MEDIA \ RIBBON LEDs are solid blue before turning off the printer.
- 2. To turn off your printer, turn off the **Power Switch** as below. The "O" is the **OFF** position.





Caution Do not turn off your printer during data transmitting.

2.3 Load media

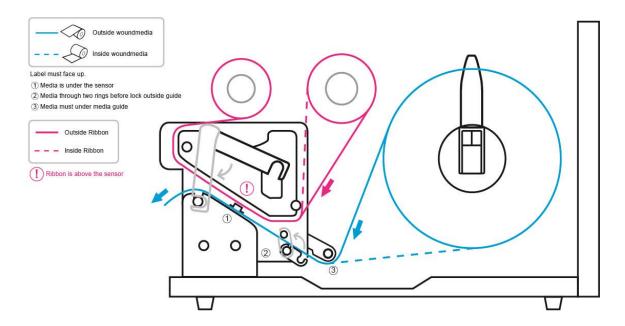
The iX6 Pro Series printers offer three different loading modes: standard, peel-off, or with a cutter.

- Standard mode allows you to collect each label freely.
- Peel-off mode peels backing material away from the label as it prints. After the label is removed, the next label prints.
- **Cutter mode** automatically cuts the label after it prints. There are rotate cutter and guillotine cutter types to cut media.



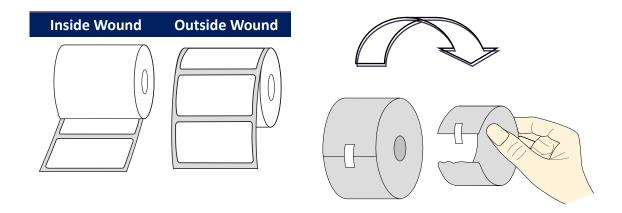
Important The first time to use peel-off mode and cutter mode. Make sure to enable the PEELER INSTALLED or CUTTER INSTALLED setting in front panel. For more information about panel setting, go to CH 3.1.1 LCD Function Setting Procedure.

Thermal Transfer Media Loading Instructions



2.3.1 Prepare media

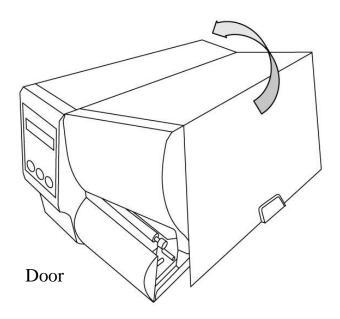
The inside wound and outside wound media roll can be loaded into the printer the same way. In case the media roll is dirty during shipping, handling or storage, remove the outside length of the media. It helps avoid dragging adhesive and dirty media between the print head and platen roller.



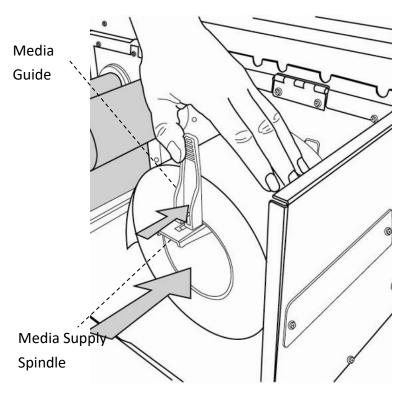
2.3.2 Placing media roll

Load Media in Standard Mode

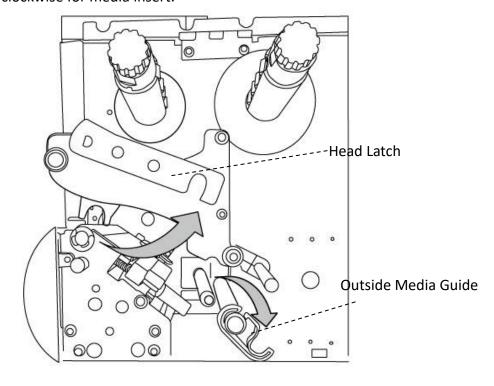
1 Lift the top cover to expose the media compartment.



2 Insert the media roll into the media supply spindle and move the media guide to the inside.

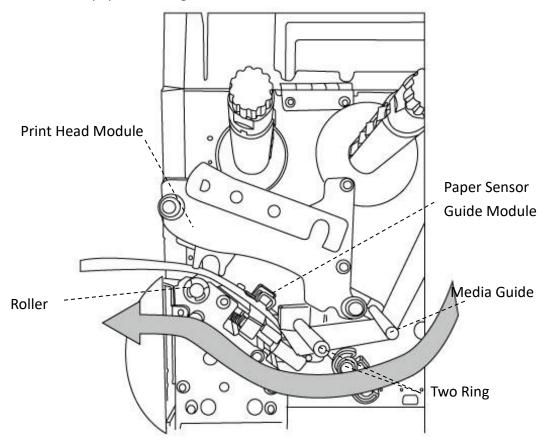


3. Turn the head latch counterclockwise and open the outside media guide counterclockwise for media insert.

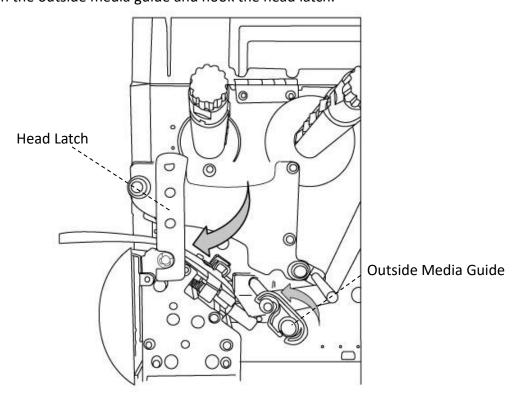


4. Label must face up when lead the media through the print head module. Media is under "media guide" and through two rings before lock "Outside Media Guide".

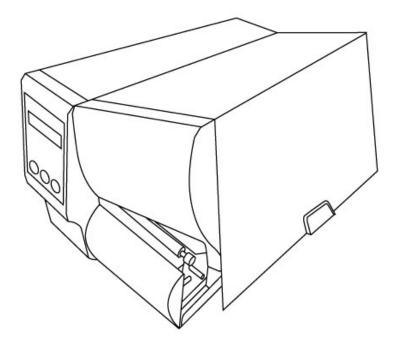
Then, under the paper sensor guide module and over the roller.



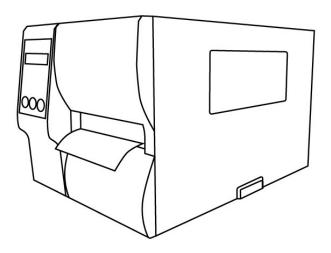
5. Return the outside media guide and hook the head latch.



6. Close the top cover.



7. Press the FEED button if the printer is already on.





Important

After the media is loaded, please perform <u>media calibration</u> to calibrate the label sensor before printing.



Note Make sure the die-cut media's label length is at least 25mm or longer, for direct thermal printing in tear-off mode with perforation.

Load Media in Peel off Mode

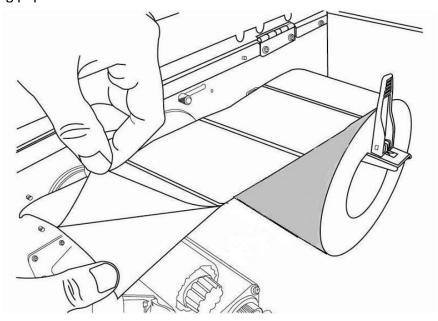
Attention:

To prevent the backing label from rolling into the roller, please stick the supplied sponge (50mm(L) x 5mm(W) x 5mm(H)) on top of the peeler bracket after installing the peeler module. The sponge should be placed 1mm from the bottom edge of the roller and 10mm from the right side of the bracket.

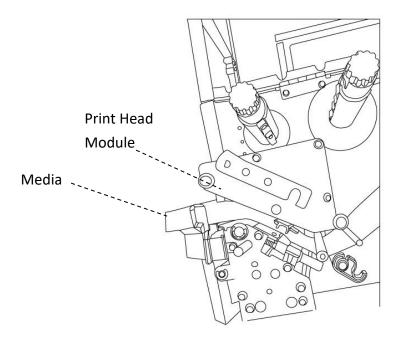
For detailed instructions on installing the sponge, please refer to the Argox quick installation guide. Quick installation guide download link: https://www.argox.com/docfile/usermanual/iX4_iX6_peeler_QIG_v1.1.pdf

The following are the steps to install the label roll. Steps 1 to 3 given below are the similar with those in Standard Mode.

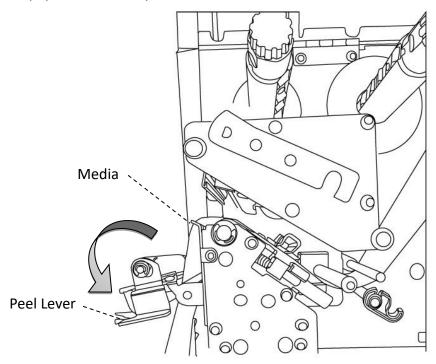
- 1. Lift the top cover to expose the media compartment.
- 2. Insert the media roll into the media supply spindle and move the media guide to the inside.
- 3. Turn the head latch counterclockwise and open the outside media guide for media insert.
- 4. From the leading end of the media roll remove enough labels to expose 6-inches of backing paper.



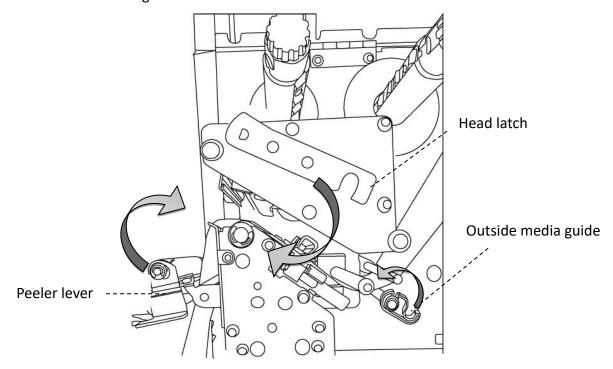
5. Lead the media backing paper under the print head module. For more specific leading media refer to standard mode step 4.



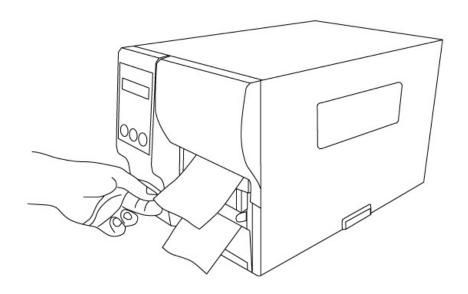
6. Push down the peel-off mechanism release lever and lead the media backing paper behind the peeler module.



7. Close the peeler module using the peel-off mechanism release lever. Return the outside media guide and hook the head latch.



8. Close the top cover and turn on the printer or press the FEED button if the printer is already on.





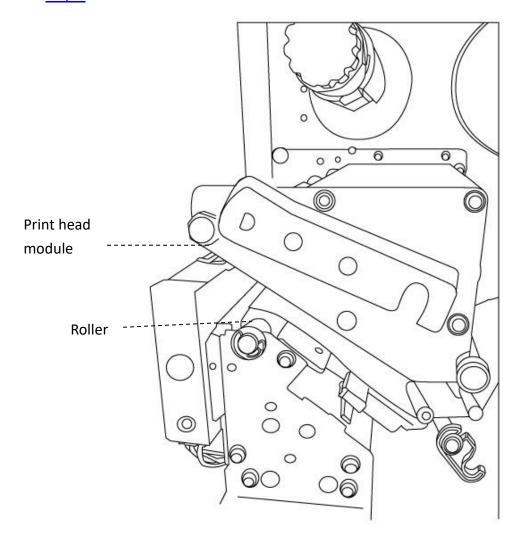
Important

After the media is loaded, please perform <u>media calibration</u> to calibrate the label sensor before printing.

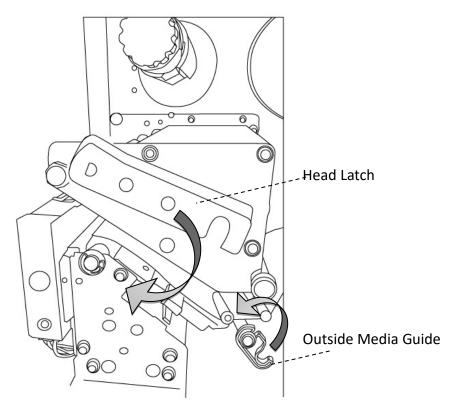
Load Media in Rotary Cutter Mode

Steps 1 to 3 are the similar with "Standard Mode".

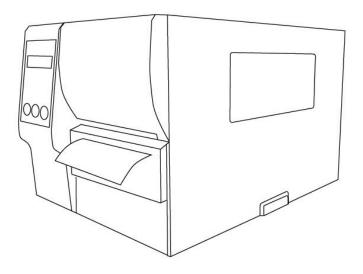
- 1. Lift the top cover to expose the media compartment.
- 2. Insert the media roll into the media supply spindle and move the media guide to the inside.
- 3. Turn the head latch counterclockwise and turn on the outside media guide.
- 4. Insert the media under the print head module and under the paper sensor guide over the roller. For more specific leading media refer to step 4.



5. Return the outside media guide and hook the head latch.



6. Close the top cover and turn on the printer or press the FEED button if the printer is already on. The printer will then feed the labels through the cutter automatically.



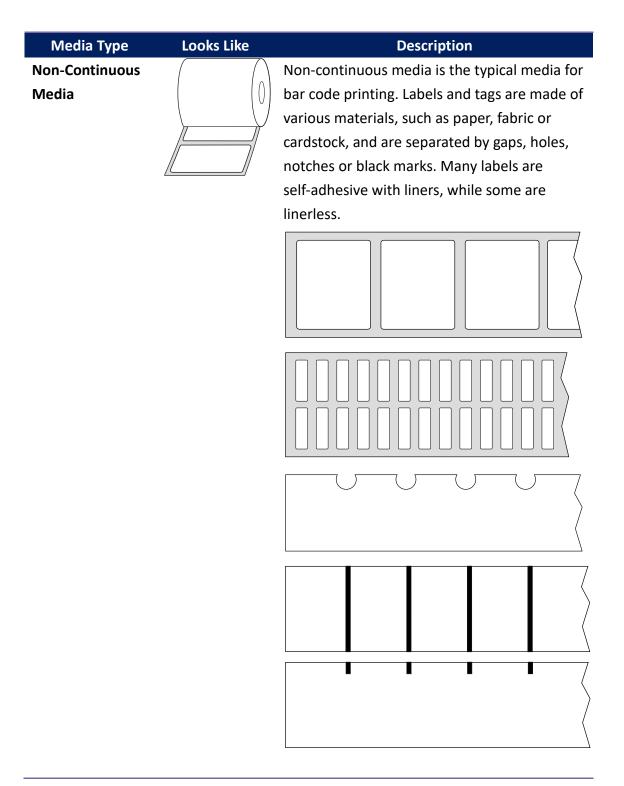


Important

After the media is loaded, please perform <u>media calibration</u> to calibrate the label sensor before printing.

2.3.3 Media types

Your printer supports various media types, including non-continuous media, continuous media, and fanfold media. The following table provides details about them.



Media Type	Looks Like	Description
Continuous Media		Continuous media does not have gaps, holes, notches or black marks. It allows you to print data anywhere on the media. A cutter may be used for splitting labels. Mostly it is used for direct thermal printing.
Fanfold Media		Fanfold media is in continuous form, but it can be used as non-continuous media, because its labels are separated by folds. Some fanfold media also has black marks or liners.
Tag Media	§ 0	Tag media is usually made from a heavy paper, with center hole to index. It does not have adhesive or a liner, and it is typically perforated between tags. The media may also have black marks or other separations.

2.4 Load Ribbon

The following steps only apply to thermal transfer printing mode.

Direct thermal does not need ribbon to be installed.

iX6 Pro Series printers apply to both Inside wound ribbon and Outside wound ribbon.

Printers can switch automatically.

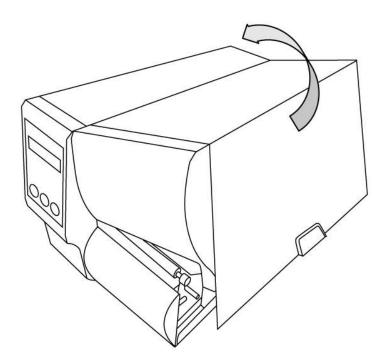
Note



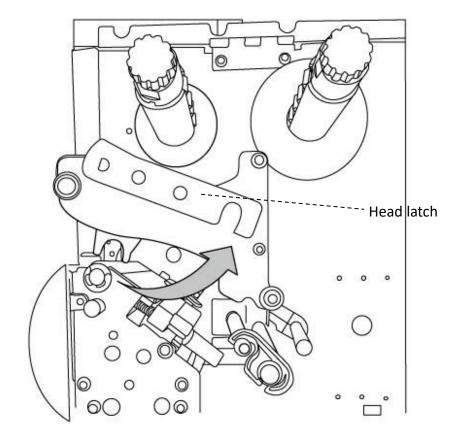
- Media and ribbon types should be matched to provide with optimal print results.
- Always use ribbon that is wider than the media to protect the print head from wear.

2.4.1 Placing Ribbon Roll

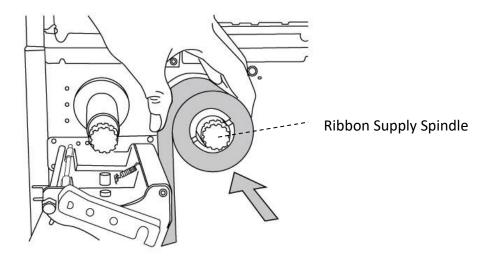
1. Lift the top cover to expose the media compartment.



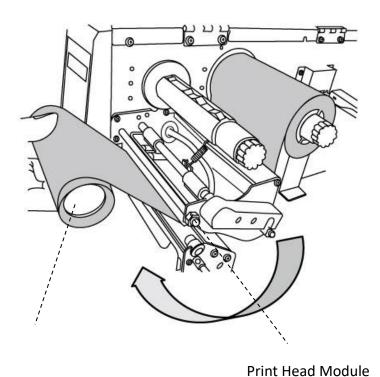
2. Turn the head latch counterclockwise.



3. Unwrap the ribbon and separate the ribbon roll from the bare core. Insert the ribbon roll onto the ribbon supply spindle.

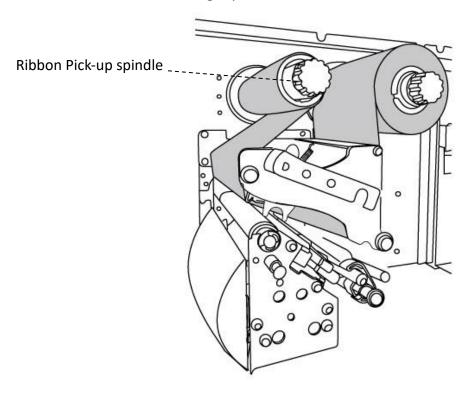


4. Lead the ribbon through the print head module. Attach the edge of the ribbon onto the bare core and wind it a bit onto the core. Make sure the coating side of the ribbon is face down.

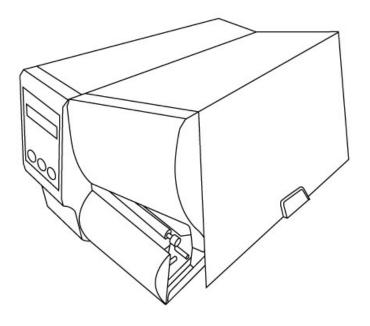


Bare Core

5. Insert the core onto the ribbon pick-up spindle. Turn the pick-up spindle to ensure the ribbon is tightly wound.



6. Close the top cover and turn on the printer.



3 Printer operation Front Panel

3 Printer operation

This chapter provides more specific information about printer operation.

3.1 Front Panel

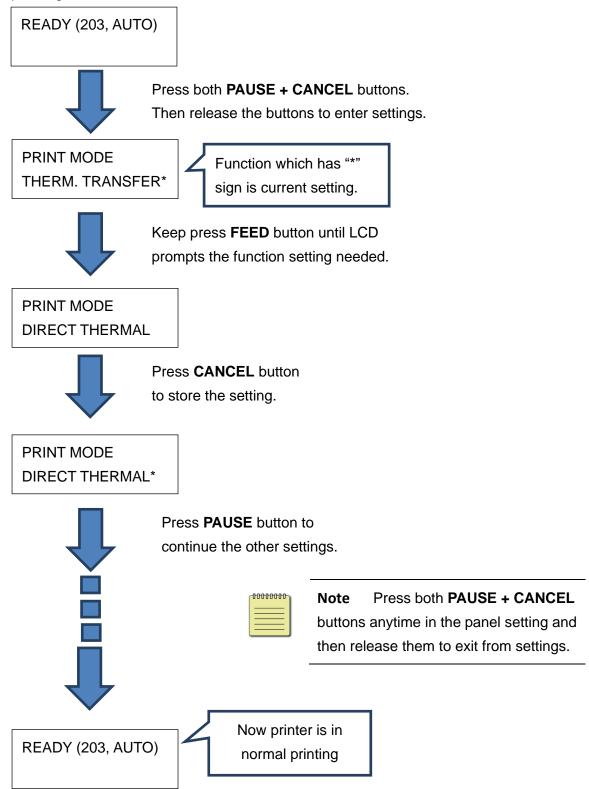
Change settings via buttons on panel:

Buttons	Function				
PAUSE+CANCEL	Press to enter setting mode.				
	Press again to exit setting mode and return to normal mode.				
FEED	Press to show next parameter.				
PAUSE	Press to show next setting item.				
CANCEL	Selects and saves a parameter to permanent FLASH memory. Unless changed via panel or command the parameter is saved even if you restart the printer.				
• Warning	Do not change settings during printing or sending printing data				

3 Printer operation Front Panel

3.1.1 LCD Function Setting Procedure

The following procedure is an example of setting procedure to direct thermal printing mode:



3 Printer operation Front Panel

Press PAUSE + CANCEL over 5 seconds to set different languages.

Item	Ran	ge Factory Default
LANGUAGE	ENGLISH,	ENGLISH
	FRENCH,	
	GERMAN,	
	ITALIAN,	
	SPANISH,	
	PORTUGUESE,	

Press **PAUSE + CANCEL** less then 1 second to set printer function.

NO.	Item	Range	Factory Default	Remarks
1	PRINT MODE	THERM. TRANSFER DIRECT THERMAL	THERM.	(Restart printer after change setting)
2	CALIBRATION MODE	INTELLI PRINT SMART PRINT	INTELLI PRINT	INTELLI PRINT: Just install labels, latch print module, press FEED button once, and then the printer will feed 1-2 labels to detect next gap / black mark before printing. SMART PRINT: Print from the first label immediately according to label length setting. Make sure to carefully align label bottom edge at the tear-off position before printing. (Restart printer after change setting)
3	CONTROL CODE SET	STANDARD ALTERNATIVE 1 ALTERNATIVE 2	STANDARD	Available only in PPLA printer language. (Restart printer after change setting)
4	CUT PEEL OFFSET	-015 ~ 015 mm	000 mm	To adjust cut and peel positions.

5	TPH VER OFFSET	-009~009 mm	000 mm	To adjust offset of vertical print position.
6	RECOVER PRINT	ENABLE, DISABLE	ENABLE	Will not reprint after recovering from media-out or ribbon-out errors.
7	CUTTER INSTALLED	NO YES	NO	(Restart printer after change setting)
8	PEELER INSTALLED	NO YES	NO	
9	STANDLONE FORM FONT	NO YES	NO	Available only in PPLB printer language. (Restart printer after change setting)
10	WIN. CON. LEN.	0 ~ 254 mm	000 mm	Available only in Windows with bundled printer driver and for continuous media.
11	SPEED	2 ~ 6 IPS	5 IPS	Higher cover rate may cause the speed automatic reduction for better quality.
12	COUNTING	DOWN UP	DOWN	
13	MEDIASENSER TYPE	SEE-THROUGH REFLECTIVE	SEE- THROUGH	To select for different media types. After changing sensor setting, make sure to calibrate before printing. (Restart printer after change setting)
14	BACK FEED	DISABLE ENABLE	ENABLE	Available only in PPLA and PPLB printer languages. Once "ENABLE" is selected, printer enters BACK DISTANCE setting.
15	BACK DISTANCE	10~40 mm	22 mm	Available only when BACK FEED is enabled.
16	BASE DARKNESS	-28~28	0	
17	DARKNESS	0~30	16	To select darkness.

		9600 / 19200 / 38400 / 57600 / 115200		(Restart printer after change setting)
19	PARITY (RS232)	NONE ODD EVEN	NONE	Should be as same as setting of host. (Restart printer after change setting)
20	LENGTH (RS232)	8 DATA BITS 7 DATA BITS	8 DATA BITS	Should be as same as setting of host. (Restart printer after change setting)
21	CLEAR FLASH	NO YES	NO	When "YES" is selected, all the label forms, soft fonts, and graphics stored will be deleted. (Restart printer after change setting)
22	SETTING PRIORITY	COMMAND/ LCD PANEL	COMMAND	Choosing priority of LCD settings. It decides which setting method - by command or by LCD panel, is prior.
23	EMULATION	AUTO PPLA PPLB PPLZ	AUTO	(Restart printer after change setting)
24	BUZZER	DISABLE ENABLE	ENABLE	
25	STANDBY	DISABLE 1 MINUTE 2 MINUTES 5 MINUTES 10 MINUTES 20 MINUTES 30 MINUTES	DISABLE	

LAST SAVED:

NO.1~15, NO.17, NO.22, NO.24~25 and language will be loaded.

LAST SAVED

LAST SAVED

LAST SAVED

NO.1, NO6, NO9, NO11, NO14~15, NO17, NO.27~30 will be loaded.

NETWORK:

NO.27~30 will be loaded.

(Restart printer after change setting)

Ethernet settings and parameters

NO.	ltem	Range	Factory Default	Remarks	
27	DHCP	DISABLE	be assigned automatically printer is not connect settings of IP ADDRESS GATEWAY settings will Every time when DISAE	BLE is changed to be ENABLE, LCD	
28	IP ADDRESS SUBNET	xxx.xxx.xxx		oled, default IP address is	
29	MASK	_	If "_" sign appears, that means that DHCP setting is		
30	GATEWAY	<u>x</u> xx.xxx.xxx	disabled. On the contrary, DHCP setting is enabled. 1. <u>FEED/CONFIG.</u> : —change contents.		
31	MAC ADDRESS	Read only	(ex. from 000.000.00 2. PAUSE/CALIBR. shift "_"sign position. (ex. from 255.255.25 3. CANCEL/RESET Select next function sidigit of each parametal. 4. To change IP ADDE SUBNET MASK, enter E CANCEL button once; L UPDATE FINISH"	55.255 to 255.255.255.255) T: Setting. ("_" sign must at the third ter, for example, xxx). RESS or DEFAULT GATEWAY setting, press CD will prompt "ETHERNET CARD er. ion on Ethernet settings, please	

WiFi module (Option)

Item	Range	Remarks
WIFI SSID	Read only	WIFI module is an option for iX6 Pro Series. Connect
WIFI IP	Dood only	printer to PC and use print tool to set WIFI module. To
ADDRESS	Read only	have more information, please refer to Print Tool user
WIFI		guide.
SUBNET	Read only	
MASK		
WIFI	Dood only	
GATEWAY	Read only	
WIFI MAC	Pood only	
ADDRESS	Read only	

3.2 Printing Media Calibration & Configuration

Before calibration, be sure media and ribbon (for thermal transfer printing) have been loaded correctly. The label sensor needs to locate properly to index labels' gaps/ notches/ holes. After the media is loaded, please perform media calibration to calibrate the label sensor in advance. For printer without LCD, please see indicators.

- 1. Turn off the printer
- 2. Press and hold the **PAUSE** button and turn on the power.
- 3. When "CALIBRATION ..." is displayed on the LCD, and both READY and MEDIA indicators blink, release the **PAUSE** button.
- 4. The printer feeds 1 or 2 blank labels.
- 5. When "READY" is displayed, the READY and MEDIA indicators stop blinking but remain illuminated.

3.3 Printing a Configuration Report

To perform a self-test and print a configuration report, helping to check printer's print quality and internal settings. Steps as below:

- 1. Turn off the printer.
- 2. Load media and ribbon.
- 3. Press and hold the **FEED** button while turning on the power.
- 4. When "SELF-TEST ..." is displayed on the LCD, release the **FEED** button.
- 5. The printer now prints out a configuration report. (as the sample in next page) All characters will be printed in 2 columns: the right shows characters received from your system, and the left are the corresponding hexadecimal values of the characters. It allows users or engineers to verify and debug the program.

For printer without LCD, please see indicators.

Sample of Configuration Report

```
LABEL PRINTER WITH FIRMWARE
        iX6-250-V01.01 20170307 PPLB
        STANDARD RAM : 32M BYTES
AVAILABLE RAM : 3676K BYTES
        FLASH TYPE : ON BOARD 16M BYTES
AVAILABLE FLASH : 8448K BYTES
        NO. OF DL SOFT FONTS(FLASH) :
NO. OF DL SOFT FONTS(RAM) :
NO. OF DL SOFT FONTS(HOST) :
        H. POSITION ADJUST .: 0000
        SEE-THRU SENSOR
   10
        REF: 0221 SEE: 0098
RTC TIME: 6/13/16(12:20:49)
MAX LABEL HEIGHT: 100 INCHES
PRINT WIDTH: 812 DOTS
LAB LEN(TOP TO TOP): 79mm
   11
   12
   13
   15
        SPEED: 6 IPS
   16
        DARKNESS: 8
   17
   18
        THERMAL TRANSFER
   19
        PRINT LENGTH: 12M
        CUT COUNT:34
        RS232: 9600, 8, N, 1P, XON/XOFF
CODE PAGE : English (437)
   21
   22
        MEDIA : NON-CONTINUOUS
   23
        CALIBRATION MODE: INTELLI PRINT
   24
        BACKFEED DISABLED
   25
        CUTTER ENABLED
PEELER DISABLED
   26
   27
   28
        CUTTER/PEELER OFFSET: 0 <+-0.01mm>
   29
        IP ADDRESS: 0.0.0.0
        SUBNET MASK: 0.0.0.0
   30
   31
        GATEWAY: 0.0.0.0
        MAC ADDRESS: 00-00-00-00-00
   32
        DHCP: ENABLED
   33
        DHCP CLIENT ID: FFFFFFFFFFFFF
                               FFFFFFFFFFFFF
   35
        DHCP HOST NAME:
        SNMP: ENABLED
   36
        SOCKET COMM.: ENABLED
SOCKET PORT: 9100
   37
   38
        IPV6 MODE: MANUAL
   39
   40
        IPV6 TYPE: NONE
        IPV6 ADDRESS: 0000:0000:0000:0000:
   41
                             0000:0000:0000:0000
   42
       LINK LOCAL
                          : 0000:0000:0000:0000:
                             0000:0000:0000:0000
        PRODUCT SN: 00000000001
   43
        USB SN: 0000000000001
   44
        CG ENABLED
   45
        ot (0,0)<0.1dot,0.01mm>

rm(0,0)<1+ 0-,0.01mm>

sm(0,0)<1+ 0-,0.01mm>

rv(302,250,52)<0.01v><P>

sv(246,100,145)<0.01v><P>
   46
   47
   48
   49
   50
        bv(329,9,320)<0.01v><P>
rso(0)<0.01mm>
   52
        sso(0)<0.01mm>
        This is internal font 1. 0123456789 ABCabcXyz
This is internal font 2. 0123456789 ABCabcXyz
This is internal font 3. 0123456789 ABCabcXyz
   56
        This is internal font 4. 0123456789 ABCXYZ
   57
59
60
61
62
63
```

1. Version Information

The firmware version and its build date.

2. Standard RAM

Total SDRAM size.

3. Available RAM

RAM is able to be used.

4. Flash Type

The flash memory type and size.

5. Available Flash

Flash is able to be used.

6. No of DL soft fonts (FLASH)

The number of fonts is downloaded in Flash.

7. No of DL soft fonts (RAM)

The number of fonts is downloaded in RAM.

8. No of DL soft fonts (HOST)

The number of fonts is downloaded in USB HOST.

9. H. Position Adjust

Move the print position horizontally.

10. Sensor Type

The media sensor type such as reflective sensor.

11. Label-less Calibration Value

Check if a label-less calibration has been performed on the printer. If not, the value is 0000.

12. RTC Time

The date and time of the real-time clock (RTC). The default format is month/day/year (hour:minute:second). If your printer has a built-in RTC, the RTC time shows here.

13. Max Label Height

The max label length you can print at a time. For 200 dpi models, it is 100 inches; for 300 dpi models, it is 50 inches.

14. Print Width

The print width in dots.

15. Lab Len (Top to Top)

For non-continuous media, it is the length between the tops of two labels.

16. Speed

The speed of printing. The unit is inch per second (ips).

17. Darkness

The current darkness.

18. Print Method

It is either thermal transfer (TT) or direct thermal (DT) printing. TT requires ribbons and DT doesn't.

19. Print Length

The total print length.

20. Cut Count

It counts the times the cutter cuts.

21. RS232 Protocol

It lists RS-232C settings in the following order: baud rate, data length, parity check, stop bit and flow control.

22. Code page

The character set table.

23. Media

The media type in use.

24. Calibration mode

There are intelli mode and smart mode.

Intelli mode: Just install labels, latch print module, press FEED button once, and then the printer will feed 1-2 labels to detect next gap / black mark before printing. The printer will feed 1-2 labels automatically before printing, if FEED button is not pressed.

Smart mode: Print from the first label immediately according to label length setting. Make sure to carefully align label bottom edge at the tear-off position before printing.

25. Backfeed Enabled/Disabled

Enable or disable backfeed during the printing process. When it is enabled, the printer moves the paper forward in a predefined length 1 second after printing, and pulls the paper back in a predefined length once the printing begins again. When it is disabled, the printer won't move the paper at all.

26. Cutter Enabled/Disabled

Enable or disable the cutter during the printing process.

27. Dispenser Enabled/Disabled

Enable or disable the dispenser during the printing process.

28. Cutter/Dispenser Offset

Move the cutting line or the peeling position forward or backward. The value in the angle brackets is the offset unit.

29. IP Address

The static IP address of the printer. The default value is "192.168.1.1".

30. Subnet Mask

The manually specified subnet mask of the printer. The default value is "255.255.255.0."

31. Gateway

The manually specified gateway of the printer. The default value is "0.0.0.0."

32. MAC Address

The unique address assigned to the printer that connects to the internet.

33. DHCP

When DHCP is enabled, it assigns an IP address to the printer automatically.

34. DHCP Client ID

It is an arbitrary value sent to the DHCP server to reserve an IP address for the printer.

35. DHCP Host Name

The name of a DHCP client.

36. SNMP

When it is enabled, the host gets or sets parameters registered as SNMP entities.

37. Socket Communication

When it is enabled, the host communicates with the printer via the socket.

38. Socket Port

The socket number of the printer.

39. IPv6 Mode

It determines how you get the IPv6 address of your printer. There are three modes: MANUAL, DHCPv6 or AUTO.

40. IPv6 Type

It is the IPv6 address type of your printer. There are four types: NONE, NORMAL, EUI and ANY.

41. IPv6 Address

The static IPv6 address of your printer.

42. Link Local

The IPv6 address that used in a network segment. It is allocated automatically.

43. Product SN

The serial number of product.

44. USB SN

The Serial number of USB host.

45. CG Enable

Printer is able to use True Type font.

46. TPH and Cutter Offset

For developers to debug.

47. Reflective Sensor Gap Calibration

For developers to debug.

48. See-Through Sensor Gap Calibration

For developers to debug.

49. Reflective Sensor Profile

For developers to debug.

50. See-Through Sensor Profile

For developers to debug.

51. Ribbon Sensor Profile

For developers to debug.

52. Reflective Sensor Offset

For developers to debug.

53. See-Through Sensor Offset

For developers to debug.

54-58. Font Image

You can use them as the reference to check your label font.

59-64. TPH Test Pattern

You can use them to check broken pins on the printhead.

If your printer has a Wi-Fi module, your PPLB configuration label will contain the following entries:

```
WLAN FW VERSION: 1.00-
         DATE: 2015.05.26-
WLAN IP ADDRESS: 0.0.0.0-
WLAN SUBNET MASK: 0.0.0.0
WLAN GATEWAY: 0.0.0.0 -
WLAN MAC ADDRESS: 00-80-92-4F-77-35-
WLAN DHCP: AUTO -
WLAN DHCP HOSTNAME: 00-80-92-4F-77-3-8
               : 5
WLAN SOCKET PORT: 9100 -
WLAN COUNTRY CODE: USA
                                     - 12
WLAN CHANNEL: AUTO -
                                    - 13
WLAN NETWORK AUTHENTICATION: Open -
WLAN WEP: OFF-
```

1. FW Version

WLAN board firmware version.

2. Date

WLAN board firmware version date.

3. IP Address

The IP address of your printer. When DHCP is enabled, it shows the automatically assigned IP address; when DHCP is disabled, it shows the manually specified IP address.

4. Subnet mask

The netmask of your printer. When DHCP is enabled, it shows the automatically assigned netmask; when DHCP is disabled, it shows the manually specified netmask.

5. Gateway

The gateway of your printer. When DHCP is enabled, it shows the automatically assigned gateway; when DHCP is disabled, it shows the manually specified gateway.

6. Mac address

The unique address assigned to your printer that connects to the internet.

7. DHCP

When DHCP is enabled, it assigns an IP address to your printer automatically.

8. DHCP Hostname

The name of a DHCP client.

9. Socket Port

The socket number of the printer.

10. SSID

Short for service set identifier. It is the name of a wireless local area network.

11. Mode

There are ad-hoc and infrastructure mode. Refer to Print Tool Network type description from Technical manual.

12. Country Code

The country or region.

13. Channel

The Wi-Fi channel.

14. Network Authentication

There are six mode. Refer to Printer Tool Network authentication description from Technical manual.

15. WEP

Refer to Printer Tool Wep description from Technical manual.

PPLA

```
R8/E94/PC/PCA/PCB/L
Courier Fonts:
ASD Smooth font (18 points) - 12
ASD Smooth font (14 points) - 123456789
ASD Smooth font (12 points) - 123456789 ABCa
ASD Smooth font (1 points) - 123456789 ABCabcXyz
ASD Smooth font (8 points) - 123456789 ABCabcXyz
    123456789
 This is internal font 7. OCR-A ABCabc
 THIS IS INTERNAL FONT 4. 012345678
THIS IS INTERNAL FONT 3. 0123456789 ABCABC
This is internal font 2. 8123456789 RBCabcXWz
sso(8)<8.81mm>
rso(8)<8.81mm>
bu(329.9.328)<8.81u><P>
su(246.100.145)<0.01u><P>
ru(382.250.52)<0.01u><P>
sm(8.8)<1+ 0-.8.81nm>
rm(8.8)<1+ 0-.8.81nm>
 ot(8.8)<8.1dot.8.81mm>
CG ENABLED
USB SN: 0000000000001
PRODUCT SN: 888888888881
8888:8888:8888:8888:8888
LINK LOCAL : 8888 :8888 :8888 :8888 :8888
PEELER DISABLED
CUTTER ENABLED
CUTTER EMBLED
BACKFEED DISABLED
CRLIBRATION MODE: INTELLI PRINT
MEDIA: NON-CONTINUOUS
STD CTRL CODES
CODE PAGE: PC-850
RS232: 9600.8.N.IP.XON/XOFF(SOFTLARE)
CUT COUNT:34
CUT COUNT:34
PRINT LENGTH: 12M
THERMAL TRANSFER
DARONESS: 18
SPEED: 6 IPS
LAB LENCTOP TO TOP): 79mm
PRINT WIDTH: 681 DOTS
MRX LABEL HEIGHT: 108 INCHES
RTC TIME: 6/13/16/12/22/44)
REF: 0221 SEE: 0098
SEE-THRU SCNSOR
H. POSITION BOLUST: 0000
SEE-THRU SENSOR
H. POSITION ROJUST.: 0000
NO. OF OL SOFT FONTS(RON): 0
NO. OF OL SOFT FONTS(RON): 0
NO. OF OL SOFT FONTS(RON): 0
RUPILIABLE FLASH: 0446K BYTES
FLASH TYPE: 0N BORRO 16M BYTES
RUPILIABLE RAM: 3676K BYTES
STRNOARD RAM: 32M BYTES
IX6-250-001.01 20178307 PPLA
LRBEL PRINTER WITH FIRMWARE
```

PPLZ

```
LABEL PRINTER WITH FIRMWARE
1X6-250-V01.01 20170307 PPLZ
STANDARD RAM : 32M BYTES
STANDARD RAM : 32M BYTES
AVAILABLE RAM : 3676K BYTES
FLASH TYPE : ON BOARD 16M BYTES
AVAILABLE FLASH : 8448K BYTES
NO. OF DL SOFT FONTS(FLASH) : (
NO. OF DL SOFT FONTS(RAM) : (
NO. OF DL SOFT FONTS(HOST) : (
NO. OF DL SOFT FONTS(HOST) : (
H. POSITION ADJUST.: 0000
REF: 0221 SEE: 0098
RTC TIME: 6/13/16(12:25:11)
MAX LABEL HEIGHT: 100 INCHES
MAX LABEL HEIGHT: 100 INC
PRINT WIDTH: 801 DOTS
LAB LEN(TOP TO TOP): 79mm
SPEED: 6 IPS
ABS. DARKNESS: 16
TRIM. DARKNESS: 0
THERMAL TRANSFER
PRINT LENGTH: 12M
CARET CONTROL CHAR : <^>
DELIMITER CONTROL CHAR : </>
CARET CONTROL CHAR : </>
CARET CONTROL CHAR : </
                                                            5EH
                                                             2CH
TILDE CONTROL CHAR
CODE PAGE : USA1
GATEWAY: 0.0.0.0
MAC ADDRESS: 00-00-00-00-00
DHCP: ENABLED
DHCP CLIENT ID: FFFFFFFFFFFFFF
                               FFFFFFFFFFFFF
DHCP HOST NAME:
SNMP: ENABLED
SOCKET COMM.: ENABLED
SOCKET PORT: 9100
IPV6 MODE: MANUAL
IPV6 TYPE: NONE
LINK LOCAL : 0000:0000:0000:0000:0000
PRODUCT SN: 00000000001
USB SN: 000000000001
CG ENABLED
ot(0,0)<0.1dot,0.01mm>
rm(0,0)<1+ 0-.0.01mm>
sm(0,0)<1+ 0-.0.01mm>
ru(302.250.52)<0.01v><P>
su(246,100,145)(0.01v)(P)
bu(329,9,320)(0.01v)(P)
rso(0)(0.01mm)
sso(0)(0.01mm)
THIS IS FONT B. 0123ABCABC
THIS IS FONT C. 0123ABCabc
THIS IS FONT D. 0123ABCabc
THIS IS FONT E. 0123ABCabc
THIS IS FONT F. 0123ABCabc
                                                               FONT
This Is Font CG Triumv Bd Condensed.
```

3.4 Resetting to Factory Default

Settings

Be cautioned that this will reset all printer settings back to defaults; if possible, print the configuration label in advance before reset. All settings stored in FLASH memory are retained even after turning off the printer. Printer mode without LCD can see indicators.

To reset the printer to factory default settings:

- 1. Turn off the printer.
- 2. Press and hold the **CANCEL** button and turn on the printer.
- 3. When "RESET ..." is displayed on the LCD and the READY indicator blinks, release the **CANCEL** button.
- 4. When "READY" is displayed on the LCD, the READY indicator stops blinking but remains illuminated.
- 5. The following information is now back to defaults:
 - Label parameters
 - Heat (Darkness)
 - Speed
 - Others for specific emulation

For more detail information, refer to CH 3.1.1 NO.26 Load default



Note:

Print length meter which indicates label length already printed cannot be reset.

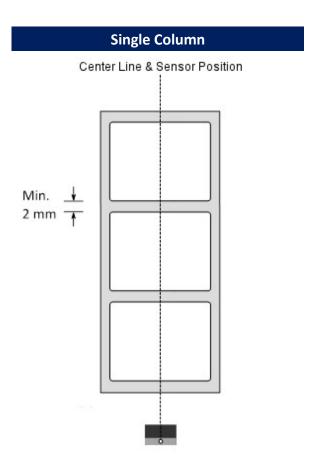
3 Printer operation Media sensing

3.5 Media sensing

Printer offer two types of media sensor: transmissive and reflective. They are used for detecting specific media types. Both sensor types are installed together as a movable module.

3.5.1 Transmissive sensor

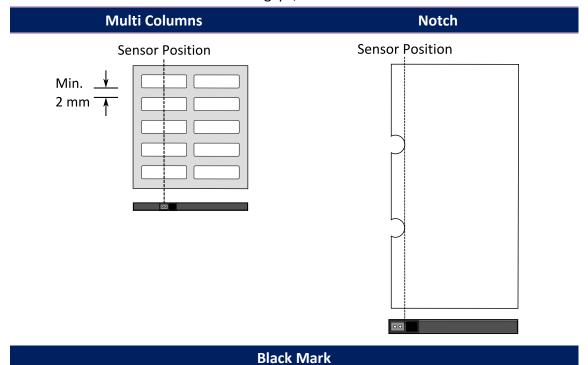
The transmissive sensor is used for detecting gaps across the entire width of the label.



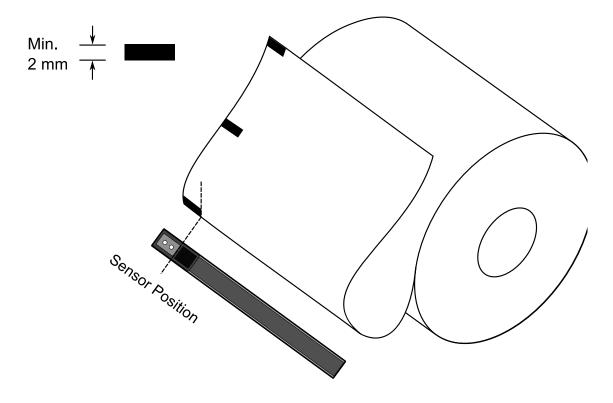
3 Printer operation Media sensing

3.5.2 Reflective sensor

The reflective sensor detects gaps, notches and black marks.



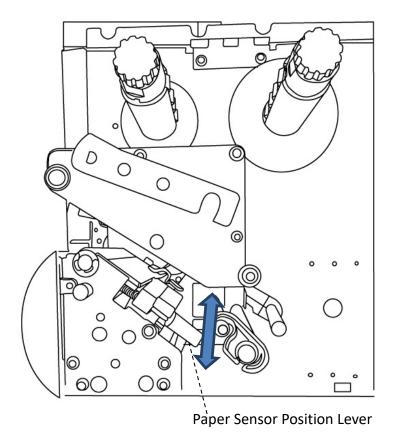
Flip the media so the black-mark side is facing down to align with the sensor.



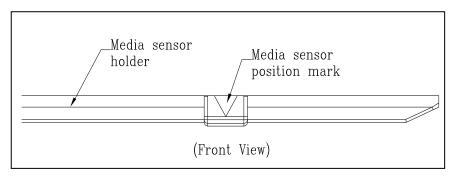
3 Printer operation Media sensing

3.5.3 Adjust Position of Label Sensor

Function of the label sensor is to detect the gap, notch, or holes of labels, to help the printer for accurate print positions and label length. For labels with gaps, label sensor can be positioned wherever media locates. If labels with notches or holes are in use, pull in or out Paper Sensor Position Lever, to horizontally adjust position of label sensor



- Make sure the Media sensor position mark locates right on notch or hole of labels. Check below.



3 Printer operation Communications

3.6 Communications

3.6.1 Interfaces and Requirements

This printer comes with two USB type A and a type B interface, a nine-pin Electronics Industries Association (EIA) RS-232 serial data interface, a standard Centronics parallel interface(Option), GPIO interface(Option), .

USB Interface Requirements

The Universal Serial Bus (USB) interface is compatible with your existing PC hardware. The USB's "plug and play" design makes installation easy. Multiple printers can share a single USB port/hub. The different usage of type A and B as below.

USB type A	USB Flash drive, USB keyboard or USB Scanner.
USB type B	PC to set printer.

■ Serial (RS-232) Port

The required cable must have a nine-pin "D" type male connector on one end, which is plugged into serial port located on the back of the printer. The other end of the cable connects to a serial port on the host computer. For technical and pin-out information, please refer to RS-232C in this manual.

Centronics Parallel Port(Option)

You can connect the printer to the host computer's parallel port using any standard Centronics cable. The required cable must have a standard 36-pin parallel connector on one end, which is plugged into the parallel port located on the back of the printer. The other end of the parallel interface cable connects to the printer connector at the host computer. For pin-out information, please refer to Centronics in this manual.



Note

Centronics allows a much higher communication speed than serial.

3 Printer operation Communications

■ General-purpose input/output (GPIO)

Pins depend on usage and the signal is user selectable. The function is diversity. For general-purpose, I/O signals programmed as inputs can cause CPU interrupted. For more information, contact local dealer.

Ethernet Module Status Indicators

The indicators with two different colors help users understand status of Ethernet:

LED Status	Description		
Both Off	No Ethernet link detected.		
Plinking	The printer waits for printer ready.		
Blinking	It will take about few seconds to be ready.		
Orongo	Duplex/COL LED	On: Full duplex	
Orange (Yellow)		Off: Half duplex	
(Tellow)		Blinking: Collision occurs	
	Link/Activity LED	On: link up	
Green		Off: link down	
		Blinking: activity	

3.7 Driver installation

The bundled printer driver can be applied to all applications under Windows XP/ Vista/ Windows 7/ Windows 8/ Windows 10, supporting 32-bit/ 64-bit operation systems. With this driver you can operate any popular Windows software applications including Argox Bartender UL label editing software or MS Word, etc., to print to this printer.

Drivers can be downloaded from Argox website

3.7.1 Installing a Plug and Play printer driver (for USB only)

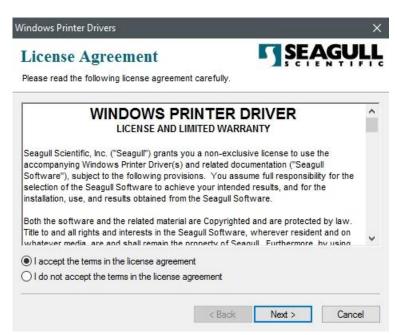
Note:



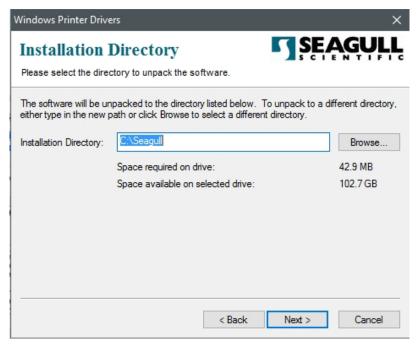
We strongly recommend that you use the Seagull Driver Wizard instead of the Microsoft Windows Add Printer Wizard when installing and updating your Drivers by Seagull.

(Even though the "Add Printer Wizard" is from Microsoft, it too easily performs a number of tasks incorrectly when updating existing drivers. It also badly handles the situation where a printer driver is already in use by a Windows application.)

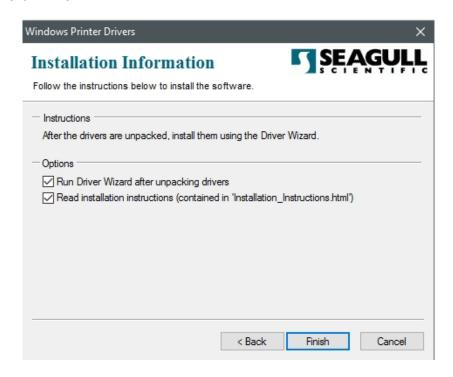
- Turn off the printer. Plug the power cable into the power socket on the wall, and then connect the other end of the cable to printer's power socket. Connect the USB cable to the USB port on the printer and on the PC.
- Turn on the printer. If the printer supports Plug-and-Play, and you have successfully
 connected it using a USB cable, then the Windows Add Hardware Wizard will
 automatically detect the printer and display a dialog that allows you to install a
 driver. Click Cancel and do not install the driver using this wizard.
- 3. Run the driver from Argox website. On the prompt, Windows Printer Driver, select "I accept..." and click "Next".



4. Assign the directory to keep Seagull driver, (for example: C:\Seagull) and click "Next".



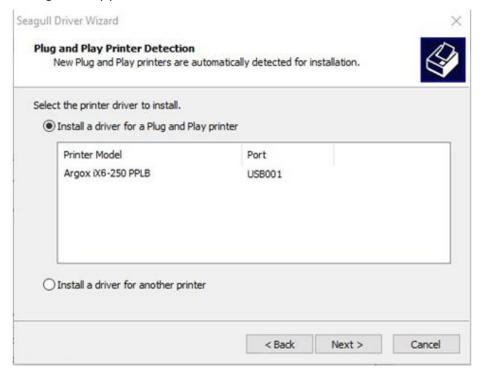
5. Click "Finish".



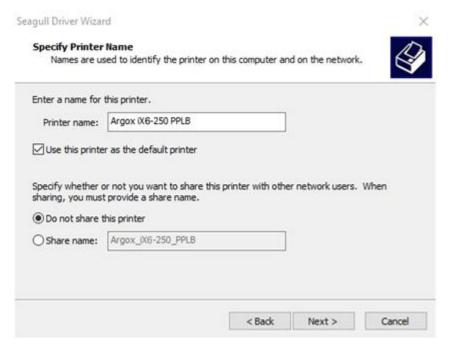
6. Select Install printer drivers and Click "Next"



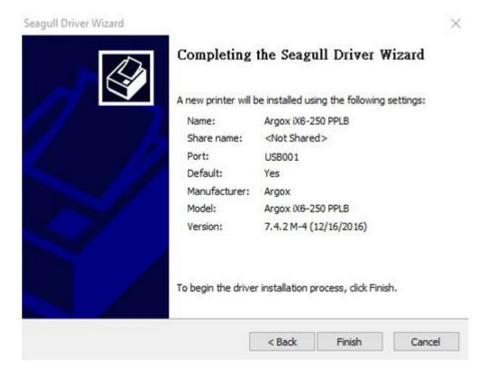
7. On the Seagull Driver Wizard prompt, select the first radio button to "Install a driver for a Plug and Play printer" Then click "Next."



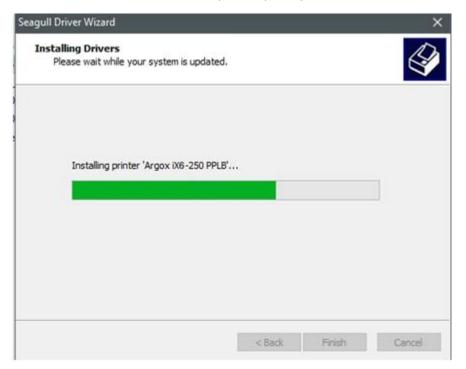
8. Enter Printer name (i.e. Argox iX6-250 PPLB) and select "do not share this printer", and click "Next"



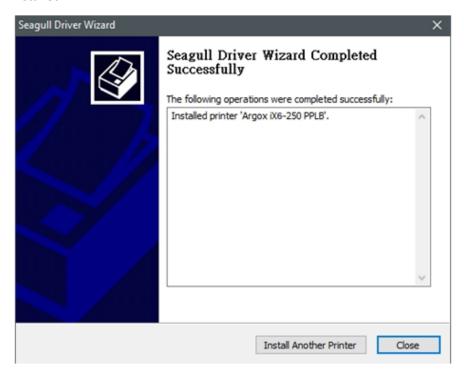
9. Check all the data on the showing screen, if it is correct, click "Finish".



10. After the related files have been copied to your system, click "Finish".



11. After driver installation is complete, click "Close". The driver should now be installed.



3.7.2 Installing a Printer Driver

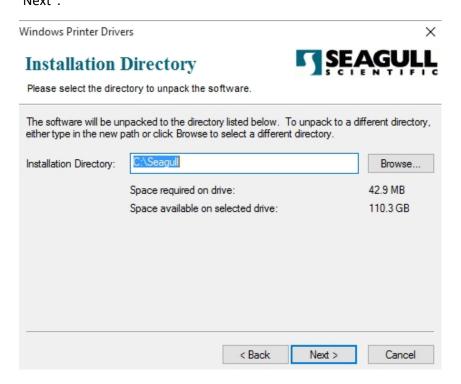
(for other interfaces except USB)

 Turn off the printer. Plug the power cable into the power socket on the wall, and then connect the other end of the cable to printer's power socket. Connect the Parallel cable, Serial cable, or Ethernet cable to the proper port on the printer and on your computer.

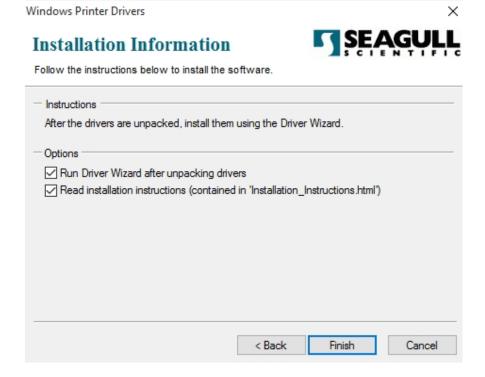
2. Run the driver from Argox website. On the prompt, Windows Printer Driver, select "I accept..."and click "Next".



Assign the directory to keep Seagull driver, (for example: C:\Seagull) and click "Next".



4. Click "Finish".



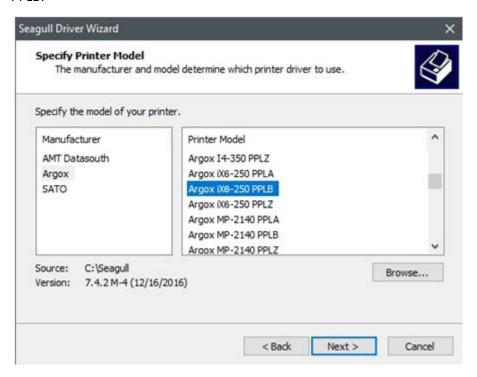
5. Select Install printer drivers and Click "Next"



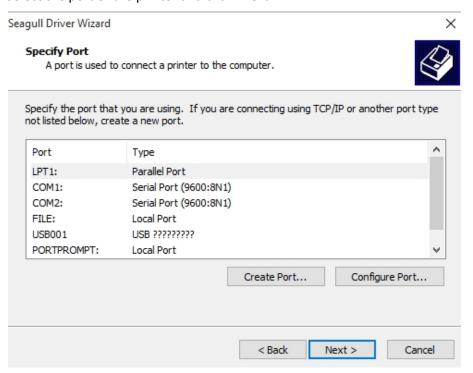
6. Make sure printer is connected to PC, select "Other" and click "Next":



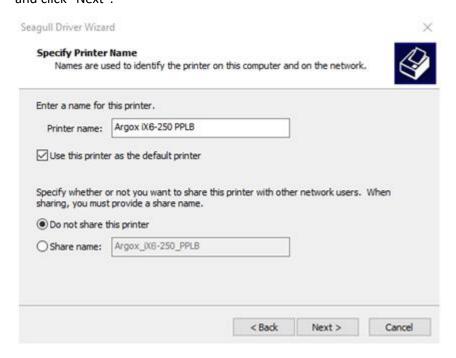
Select model & emulation - the following examples are based on model iX6-250
 PPLB:



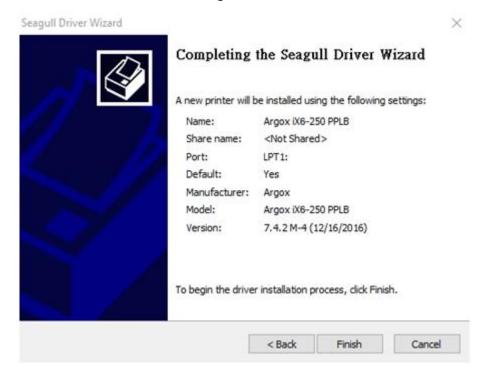
8. Select the port of the printer and click "Next".



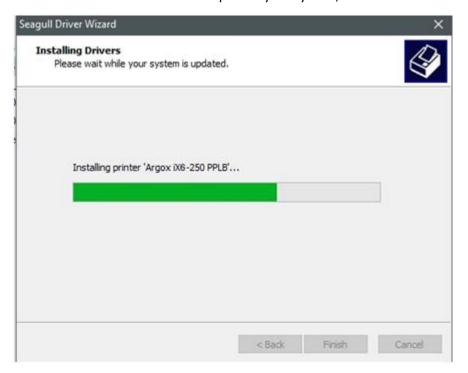
9. Enter Printer name (i.e. Argox iX6-250 PPLB) and select "do not share this printer", and click "Next".



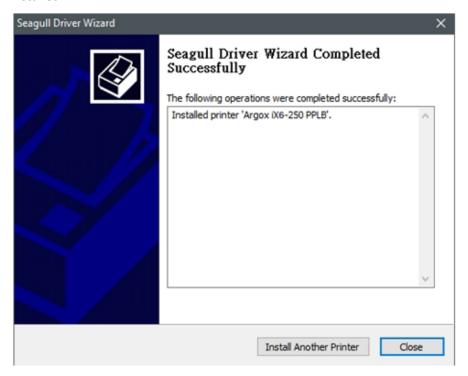
10. Check all the data on the showing screen, if it is correct, click "Finish".



11. After the related files have been copied to your system, click "Finish".



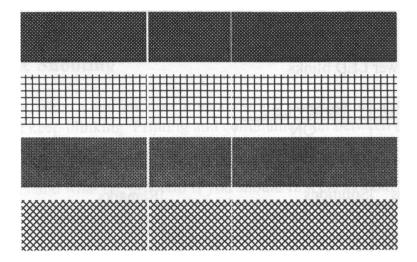
12. After driver installation is complete, click "Close". The driver should now be installed.



4 Maintenance Driver installation

4 Maintenance

Vertical streaks in the printout usually indicate a dirty or faulty print head. (Refer to the following examples.) Clean the print head. If the problem persists, replace the print head.



For unstable ribbon roll rotation, check the label path and make sure the head latch is securely closed.

Poor printout quality:

- The ribbon may not match the media in use.
- Adjust the Darkness (heat temperature).
- Slow down the print speed.
- Refer to the following and clean the related spare parts.

4 Maintenance Cleaning

4.1 Cleaning

To maintain print quality and prolong the printer's life, you need to perform some routine maintenance. Daily maintenance should be done for high volume printing, and weekly for low volume printing.



Warning Always turn off the printer before cleaning.

4.1.1 Printhead

It is essential to keep printhead clean if you want the best print quality. We strongly recommend that you clean the printhead when you load a new media roll. If the printer is operated in critical environment, or the print quality declines, you need to clean the printhead more frequently.

Keep in mind these things before you clean:

- Keep the water away in case of corrosion on heating elements.
- If you just finish printing, wait until the printhead cools down.
- Do not touch the printhead with bare hands or hard objects.

Cleaning steps:

- 1. Moisten a soft cloth or a cotton swab with ethyl alcohol.
- 2. Gently wipe the printhead in one direction. That is, wipe it only from left to right or vice versa. Do not wipe back-and-forth, in case dust or dirt attaches to the printhead again.



Note Printhead warranty becomes void if printhead's serial number is removed, altered, defected, or made illegible, under every circumstance.

4 Maintenance Cleaning

4.1.2 Platen Roller

The platen roller is also important for print quality. Dirty platen roller may damage the print head. Clean the platen roller right away if the adhesive, dirt or dust accumulates on it.

- 1. Moisten a soft cloth with absolute ethyl alcohol.
- 2. Gently wipe the platen roller to remove the dust and adhesive.

5 Troubleshooting Printer issues

5 Troubleshooting

This chapter provides the information about printer problems and solutions.

5.1 Printer issues

The printer won't turn on

- Did you attach the AC power cord?
- Check the power connection from the wall socket to the printer. Test the power cord and the socket with other electrical devices.
- Disconnect the printer from the wall socket, and connect it again.

The printer turns itself off

- Turn on the printer again.
- If the printer keeps turning itself off, check the socket and make sure it has enough power for the printer.

The printer does not feed the media out

- The media is not loaded correctly. See Section 2.3, "Loading Media" to reload the media.
- If there is a paper jam, clear it.

5 Troubleshooting Media issues

5.2 Media issues

The media is out

Load a new media roll.

The paper is jammed

- Open the printer and clear the jammed paper.
- Make sure the paper is held properly by the Media Guides.

The printing position is not correct

- Did you use the correct media type for printing?
- The media is not loaded correctly. See Section 2.3, "Loading Media" to reload the media.
- The media sensor needs to be calibrated. See Section 3.2, "Printing
 Media Calibration & Configuration" to calibrate the sensor.
- The media sensor is dirty. Clean the media sensor.

Nothing is printed

- The media is not loaded correctly. See Section 2.3, "Loading Media" to reload the media.
- The print data might not be sent successfully. Make sure the interface is set correctly in the printer driver, and send the print data again.
- Make sure the media and ribbon are both matched.

The print quality is poor

- The print head is dirty. Clean the print head.
- The platen roller is dirty. Clean the platen roller.
- Adjust the print darkness, or lower the print speed.
- The media is incompatible for the printer. Use appropriate media roll instead.

5 Troubleshooting Ribbon issues

5.3 Ribbon issues

The ribbon is out

Load a new ribbon roll.

The ribbon is broken

- Check the print darkness and adjust it if it is too high, and take the following steps to fix the broken ribbon:
 - 1. Unload the ribbon supply roll and take-up roll from the printer.
 - 2. Pull the ribbon from the supply roll so it overlaps the broken end of the take-up roll.
 - 3. Tape the overlapped parts together.
 - 4. Reload both rolls into the printer.

The ribbon is "printed out" with the media

- The ribbon is not loaded correctly. See Section 2.4, "<u>Loading Ribbon</u>" to reload the ribbon.
- The print head temperature is too high. Reload the ribbon and print a configuration label to check the settings (See Section 3.2, "Printing Media Calibration & Configuration"). If the print darkness is very high, adjust it in printer preference, or reset your printer (see Section 3.3, "Resetting to Factory Default Setting").

The ribbon is wrinkled

Make sure the ribbon is loaded correctly.
 Rotate Thumb Wheel of Ribbon spindles to straighten the ribbon.

5 Troubleshooting Other issues

5.4 Other issues

There are broken lines in the printed label

The print head is dirty. Clean the print head.

The print head temperature is extremely high

The print head temperature is controlled by the printer. If it is extremely high, the printer will stop printing automatically, until the print head is cool down. After that, the printer will resume printing automatically, if there is any unfinished print job.

The print head is broken

Contact your local dealer for assistance.

6 Specifications Printer

6 Specifications

This chapter provides specifications for the printer.

6.1 Printer

Model	iX6-250 Pro
Print method	Direct Thermal & Thermal Transfer
Resolution	203 dpi (8 dots/mm)
Operation Mode	Standard: Continuous mode, Tear-off mode
Operation Mode	Optional: Cutter mode, Peeler mode
	Media Reflective sensor x 1 (movable) &
Sensor	Media Transmissive sensor x 1 (movable) /
	Head open switch / Ribbon end sensor
Operation interface	LED indicator x 3, Button x 3, LCD display
Print Speed	2-6 ips (51~152 mm/s)
Print Length	Max 100"(2540 mm) / Min 0.2"(5mm)
Print Width	6.6" (168 mm)
	Standard: Ethernet, dual USB hosts, USB device, RS-232
Communication Interface	Option: Wi-Fi (IEEE 802.11 b/g/n), GPIO, Parallel, Buzzer
Programming Language	PPLA+PPLB+PPLZ
Accessories	Rotary Cutter, Peeler
	128MB DRAM (32MB available for user)
Onboard Memory	128MB Flash ROM (100MB available for user)
	USB storage up to 32 GB (FAT32 format only)
CPU Type	32 bit RISC microprocessor
Coftware Label edition	Windows Driver (Windows XP/Vista/ Win 7/ Win 8/
SoftwareLabel editing	Win 10), BarTender® from Seagull Scientific
Software Utility	Printer Tool
Agency Listing	CE, FCC, ICES, CB/LVD, BSMI



Note Print quality and speed is based on 15% print coverage.

6 Specifications Media & Ribbon

6.2 Media & Ribbon

Properties	Description
Media Size	Max. width: 6.8" (173mm) / Min. width: 2" (50.8 mm)
	Thickness:0.0025"~0.01" (0.0635mm~0.254mm)
	8.26"(210mm) OD on a 3"(76mm) ID core.
	7"(177.8mm) OD on a 1.5"(38mm) ID core.
	Min. length 1" (25.4mm) for cutter options.
Media Type	Roll-feed, die-cut, continuous, fan-fold, tags, ticket or plain
	paper or label.
Ribbon Size	Width: 2"~6.78"(25.4mm~172mm)
	Length: max 450m Wax, 450m Semi-Resin.
	Max OD 3.2" (81.3 mm).
	Core size ID 1" (25.4 mm).
Ribbon Type	Wax, Wax/Resin, Resin (Ribbon wound ink-side out or
	ink-side in)

6.3 Electrical and operating environment

Properties	Description	
Power Supply	Voltage: AC 100 V \sim 240 V \pm 10 % (full range)	
	Frequency: 50 Hz - 60 Hz ± 5 %	
Temperature	Operating: 40°F~104°F (4°C~40°C)	
	Storage: -4°F~122°F (-20°C~50°C)	
Humidity	Operating: 25 %RH ~ 85 %RH (non-condensing)	
	Storage: 10 %RH ~ 90 %RH (non-condensing)	

6.4 Physical dimension

Dimension	Size and Weight	
Size	W 318mm x H 262mm x D 470 mm	
Weight	14kgs (31lbs), Net Weight	
	18kgs (40lbs), Gross Weight	



Note The specifications may be changed at any time without prior notice. For more information about the new specifications, visit Argox website or contact your dealer.

6.5 Fonts, Barcodes, and Graphics Specification

The specifications of fonts, bar codes and graphics depends on the printer emulation. The emulations PPLA, PPLB, and PPLZ are printer programming languages, through which the host can communicate with your printer.

Printer Programming Language PPLA

Programming Language	PPLA
	9 fonts with different point size
Internal fonts	6 fonts with ASD smooth font.
	Courier font with different symbol sets.
Symbol sets	Courier font symbol set: Roman-8, ECMA-94, PC, PC-A,
(Code pages)	PC-B, Legal, and PC437 (Greek), Russian.
Soft fonts	Downloadable soft fonts by Print Tool
Font size	1x1 to 24x24 times
Character rotation	0, 90, 180, 270 degree, 4 direction rotation
Graphics	PCX, BMP, IMG, GDI and HEX format files
	Code 39、UPC-A、UPC-E、Code 128 subset A/B/C、
	EAN-13、EAN-8、HBIC、Codabar、Plessey、UPC2、
	UPC5、Code 93、Postnet、UCC/EAN-128、,
1D Barcodes	UCC/EAN-128 K-MART、UCC/EAN-128 Random weight、
ID parcodes	Telepen、FIM、Interleaved 2 of 5 (Standard/with
	modulo 10 checksum/ with human readable check
	digit/ with modulo 10 checksum & shipping bearer
	bars) 、GS1 Data bar (RSS)
2D Barcodes	MaxiCode、PDF417、Data Matrix (ECC 200 only) 、QR
ZD Daicoues	code、Composite Codes、Aztec

Printer Programming Language PPLB

Programming Language	PPLB		
Internal fonts	5 fonts with different point size		
	8 bits code page : 437, 850, 852, 860, 863, 865, 857, 861,		
	862, 855, 866, 737, 851, 869, 1252, 1250,		
Symbol coto	1251, 1253, 1254, 1255		
Symbol sets (Code pages)	7 bits code page: USA, BRITISH, GERMAN,		
(Code pages)	FRENCH, DANISH, ITALIAN,		
	SPANISH, SWEDISH and		
	SWISS		
Soft fonts	Downloadable soft fonts by Print Tool		
Font size	1x1 to 24x24 times		
Character rotation	0, 90, 180, 270 degree, 4 direction rotation		
Graphics	PCX , Binary Raster, BMP and GDI		
	Code 39、UPC-A、UPC-E、Matrix 2 of 5、UPC-Interleaved 2 of		
	5、		
	Code 39 with check sum digit 、 Code 93、 EAN-13、 EAN-8		
	(Standard, 2 /5digit add-on) 、 Codabar、 Postnet、 Code128		
	subset A/B/C、		
1D Barcodes	Code 128 UCC (shipping container code) 、		
1D Darcodes	Code 128 auto、UCC/EAN code 128 (GS1-128) 、Interleave 2		
	of 5、Interleaved 2 of 5 with check sum、Interleaved 2 of 5		
	with human readable check digit ς German Postcode ς Matrix		
	2 of 5 $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $		
	2/5 digit add-on、UPCE 2/5 digit add-on、		
	GS1 Data bar (RSS)		
2D Barcodes	MaxiCode、PDF417、Data Matrix (ECC 200 only) 、QR cod Composite Codes、Aztec		

Printer Programming Language PPLZ

Programming Language	PPLZ
	8 (A~H) fonts with different point size.
Internal fonts	8 AGFA fonts: 7 (P~V) fonts with fixed different
internalionis	point size (not scalable).
	1 (0) font with scaling point size.
	USA1, USA2, UK, HOLLAND,
	DENMARK/NORWAY, SWEDEN/FINLAND,
Symbol sets	GERMAN, FRANCE1, FRANCE2, ITALY,
(Code pages)	SPAIN, MISC, JAPAN, IBM850, Multibyte Asian Encodings,
	UTF-8, UTF-16 Big-Endian, UTF-16 Little-Endian, Code page
	1250, 1251, ,1252, 1253, 1254
Soft fonts	Downloadable soft fonts by Print Tool
Font size	1x1 to 10x10
Character rotation	0, 90, 180, 270 degree, 4 direction rotation
Graphics	GRF, Hex and GDI
	Code39、UPC-A、UPC-E、Postnet、Code128 subset A/B/C、
	Interleave 2 of 5
	Interleaved 2 of 5 with check sum \
1D Barcodes	Interleaved 2 of 5 with human readable check digit、Code
	93、Code 39 with check sum digit、
	MSI、EAN-8、Codabar、Code 11、EAN-13、Plessey、GS1
	Data bar (RSS) 、Industrial 2 of 5、Standard 2 of 5、Logmars
	MaxiCode、PDF417、Data Matrix (ECC 200 only) 、QR code、
2D Barcodes	Composite Codes、Aztec

6.6 Wireless LAN (Option)

	Properties		Wireless LA	AN I/F	
Hardware	Protocol	IEEE 802.	11 b/g/n		
	Enabled Device	WIRELESS	PRINTER		
	Operating	-20°C ~ +8	35°C		
	Temperature				
	Destination	USA	E	urope	
	Frequency	2412 ~ 24	62 MHz 2	412 ~ 2	472 MHz
	(Center Channel)				
	Channel	1 ~ 11 ch	1	. ~ 13 cł	า
	Spacing		5 MHz	Z	
	Transmission Speed/	IEEE	Transmission		Conformin
	Modulation	802.11b	Method		g to IEEE
					802.11b
					DSSS
					method
			Channel		Depending
					on the
					country
			Data Transmis		11/5.5
			Speed/Modul	ation	Mbps: CCK
					2 Mbps:
					DQPSK
					1 Mbps:
			-		DBPSK
		IEEE	Transmission		Conformin
		802.11g	Method		g to IEEE
					802.11g
					OFDM method
					DSSS
					method
			Channel		Depending
			Silainiei		on the
					country

6 Specifications Wireless LAN (Option)

Properties		Wireless LAN I/F	
		Data Transmission	54/48
		Speed/Modulation	Mbps: 64
			QAM
			36/24
			Mbps: 16
			QAM
			18/12
			Mbps:
			QPSK
			9/6 Mbps:
			BPSK
	IEEE	Transmission	Conformin
	802.11n	Method	g to
			IEEE802.11
			n OFDM
			method
		Channel	(US)1-11ch
			(JP/DE)1-1
			3ch
		Data Transmission	20MHz :
		Speed/Modulation	6.5M /
			7.2M /
			13M /
			14.4M /
			19.5M /
			21.7M /
			26M
			/28.9M /
			39M /
			43.3M /
			52M /
			57.8M /
			58.5M /
			65M /
			72.2M(Aut
			o-sensing)
Antenna	External a	ntenna	

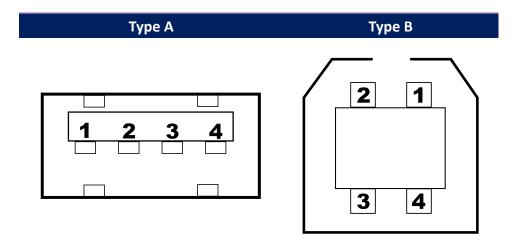
	Properties			Wireless LAN I/F
	Aerial power		802.11b	Max +15 dBm
			802.11g	Max +17 dBm
			802.11n	Max +17 dBm
Software	Connection	n mode	Infrastruc	ture, Adhoc
	Default IP	Address	192.168.1	1
	Default Su	bnet Mask	255.255.0	0.0
	Default ES	SID	WIRELESS	PRINTER
	Security		IEEE 802.:	11i
		Cryptograp	WEP 128	bit, TKIP (WPA), AES (WPA2)
		hy		
		Authorizati	Open Key	(for WEP), PSK
		on		
	Protocol (*) Wireless LAN Parameter Setting and		TCP/IP, So	ocket, DHCP
			Paramete	r Setting: Command (PC Setting
			Tool)	
	Status Mo	nitor		

6.7 Interfaces

This section provides information about IO port specifications for the printer.

6.7.1 USB

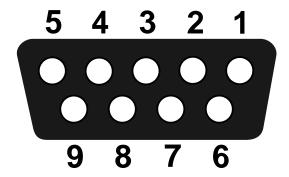
There are two common USB connectors. Typically, type A is found on hosts and hubs; type B is found on devices. The figure below shows their pinouts.



Pin	Signal	Description
1	VBUS	+5V
2	D-	Differential data signaling pair -
3	D+	Differential data signaling pair +
4	Ground	Ground

6.7.2 RS-232C

The RS-232C on the printer is DB9 female. It transmits data bit by bit in asynchronous start-stop mode. The figure below shows its pinout.

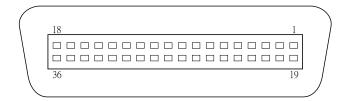


Pin	Signal	Description
1	NA	No Function
2	TxD	Transmit
3	RxD	Receive
4	NA	No Function
5	GND	Ground
6	NA	No Function
7	CTS	Clear to Send
8	RTS	Request to Send
9	NC	No Connection

	Host (DB9)			Printer (DB9)	
Signal	Description	Pin	Pin	Description	Signal
CD	Carrier Detect	1	1	No Function	NC
RxD	Receive	2	2	Transmit	RxD
TxD	Transmit	3	3	Receive	TxD
DTR	Data Terminal Ready	4	4	No Function	NC
GND	Ground	5	5	Ground	GND
DSR	Data Set Ready	6	6	No Function	NC
RTS	Request to Send	7	7	Clear to Send	RTS
CTS	Clear to Send	8	8	Request to Send	CTS
CI		9	9	No Function	NC

6.7.3 Centronics

The 36-pin Centronics on the printer uses parallel communication, and complies with IEEE 1284 compatibility mode (also called SPP, Standard Parallel Port). The figure below shows its pinout.



Pin	Signal Direction	Signal	Pin	Signal Direction	Signal
1	To Printer	/STROBE	19	S-GND	Signal-GND
2	To Printer	Data 1	20	S-GND	Signal-GND
3	To Printer	Data 2	21	S-GND	Signal-GND
4	To Printer	Data 3	22	S-GND	Signal-GND
5	To Printer	Data 4	23	S-GND	Signal-GND
6	To Printer	Data 5	24	S-GND	Signal-GND
7	To Printer	Data 6	25	S-GND	Signal-GND
8	To Printer	Data 7	26	S-GND	Signal-GND
9	To Printer	Data 8	27	S-GND	Signal-GND
10	From Printer	/ACK	28	S-GND	Signal-GND
11	From Printer	BUSY	29	S-GND	Signal-GND
12	From Printer	PE	30	S-GND	Signal-GND
13	From Printer	SELECT	31	To-Printer	LPTINIT
14	To Printer	AUTO	32	From Printer	/FAULT
15	NC		33	NC	
16	S-GND	Signal-GND	34	NC	
17	P-GND	Power-GND	35	NC	
18	Power	5V	36	To Printer	SELIN

6.7.4 GPIO

The input and output definition is below.

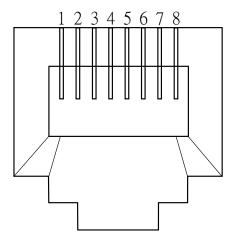
DB15	Direction	Name	Port No.
Pin No.	(Power/In/Out)	CND	V
1	Р	GND	X
2	Р	5V	X
3	Input	Start Print	CS4 bit0
4	Input	Feed	CS4 bit1
5	Input	Pause	CS4 bit2
6	Input	Reprint	CS4 bit3
7	Р	24V	X
8	Р	GND	X
9	NC	NC	X
10	Output	Serv_Req	PC18
11	Output	End_Print	PB21
12	Output	Meida Out	PC17
13	Output	Ribbon Out	PC18
14	Output	Data Ready	PC16
15	Output	OPT_Fault	PA25

Initialize:

- (1) During initialize process, please set all of output port to high for status clear, it means all of outputs are active low.
- (2) The active level maybe customize needed to modify.
- (3) The input normal state (idle) is high level, so the all of inputs are also active low.

6.7.5 Ethernet

The Ethernet uses RJ-45 cable, which is 8P8C (8-Position 8-Contact). The figure below shows its pinout.



Pin	Signal	
1	Transmit+	
2	Transmit-	
3	Receive+	
4	Reserved	
5	Reserved	
6	Receive-	
7	7 Reserved	
8	Reserved	

7 Dimensions Interfaces

7 Dimensions

