

EC-JET High Resolution Inkjet Printer

High Resolution Inkjet Printing System

ECH500 Series

User Manual

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EC-JET High Resolution Inkjet Printer

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At all times the printer must be operated with EC-Pack approved spares and consumables.

About This Manual

The purpose of this manual is to provide the operator with sufficient information to carry out operation tasks on the EC-JET High Resolution InkJet Printer ECH500 Series. Products described in this manual are subject to continuous development, and reviews of this manual will be made accordingly in subsequent amendments or reissues.



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Chapter 1 Introduction of EC-JET High Resolution Inkjet Printer

1.1 Specifications

Model: ECH500

Print lines: Arbitrary lines within the printing area Print Height: 0-71.8mm Operating system: Windows7, Windows10, Linux Support message type: Windows fonts, picture (LOGO), barcode, 2D code Print speed: 60m/min @ 180DPI 120m/min @ 90DPI Variable data: date, time, serial number, 2D code, barcode Message Length: 700mm, extendable as option Memory capacity: 2GB Ink type: EC JET authorized ink External I/O: standard USB Host, Standard network port, alarm interface, sensor interface Power supply: 110V-240VAC,50/60Hz Power Consumption: below 60W Working Environment: Temperature 0°C~+70 °C Cabinet material: Stainless steel, aluminum alloy EMI Compliance: EN55011:2009+A1:2010, EN61326-1:2013, EN61000-3-2:2014, EN61000-3-3:2013 Consumable capacity: 500ml/bottle. Print material: Wood, Carton box, building materials, Porous and Semi Porous Surface

Optional:

1. Shaft encoder: make the printer speed automatically adapt to production line speed.

2. Sensor: induce objects, trigger printing information.

1.2 Gentle Reminder

- 1. This is precision equipment, do not attempt to dismantle unless you are fully trained.
- 2. Please read and understand the operation manual before operating this printer.

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- 3. Connect the printer circuit correctly. Please check the wiring instructions when wiring.
- 4. Check the system connection wire regularly.

1.3 Product Photo





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Chapter 2 Installation

2.1 Ink Bottle Installation Figure:



As shown in the figure:

Step 1: the positioning pin of the ink bottle protrusion is as shown by the arrow 1, facing directly to the upper side of the machine;

Step 2: put ink bottle as shown by arrow 2 and insert it into the bottom of the machine ink tank;

Step 3: after inserting the ink bottle, gently turn it by about 3° in the direction of the arrow 3. After the click sound, the ink bottle is inserted. At this point, the system status light flashes green, indicating that the ink bottle chip is properly inserted.



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2.2 Printer Installation Figure:



As shown in the figure:

Step 1: Install the printer bracket the printhead, then adjust the printing position;

Step 2: According to the arrow 1, install the printhead anti-collision board in the product entering direction, the board can be installed on both sides of the printhead, according to the on-site product;

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Step 3: Install the photocell on the other side of the printhead as indicated by arrow 2. The sensor can only detect the outer carton package . If you encounter special application, you can consult the company or agent, they will recommend the corresponding photocell.

Step 4: Adjust the height of the printhead as indicated by the arrow 3. It is recommended that the bottom surface of the printhead should be about 3cm higher than the bottom of the printer cabinet. If there is print missing in the top and still exist after doing ink pressing to remove air, then the printhead height needs to be appropriately reduced.

2.3 External I/O:

USB interface : Standard USB Host.

RJ45 interface : Standard gigabit Ethernet interface

DB9 Female interface	:	as shown in the following table
-----------------------------	---	---------------------------------

DB9 Female interface number	Function
1	None
2	Serial port RX
3	Serial port TX
4	24V DC output
5	GND
6	NPN photocell
7	PNP photocell
8	Shaft encoder A
9	None

DB9 Male interface : as shown in the following table

DB9 Male interface number	Function
1	Machine running status, 0: stop; 24V: running
2	Alarm 0
3	Alarm 1



4	24V DC output
5	GND
6	Alarm 1
7	5V DC output
8	None
9	None



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Chapter 3 ECH500 User Instructions

3.1 Ink Loading for New Printer

Step 1: Install the printer on the production line to ensure that the bottom of the machine is stable and free of jitter. Note that the printhead needs to be installed on the side of the object to ensure that the circulating ink of the new printer can be recycled normally. If you need to print downward, after the ink is loaded, rotate the printhead 90 degrees downward, the lowest surface of the printhead should be 5CM higher than the bottom of the printer cabinet.

Step 2: Install the ink bottle into the printer according to the ink bottle installation figure.

Step 3: Turn on the power of the printer. It will enter standby mode after finishes processing the program . The system indicator will flash between white and green colors (if old ink bottle, it may flash other colors). Color indicates the remaining of ink, as shown the following table:

Green light, buzzer has no sound	The system is normal, the ink bottle is normal, and the system is supplying ink, remaining ink volume more than 50%
Cyan lamp, buzzer has no sound	The system is normal, the ink bottle is normal, and the system is supplying ink, remaining ink volume from 10% to 50%
Yellow light, buzzer has ticking sound	The system is normal, the ink bottle is normal, and the system is supplying ink, remaining ink volume less than 10%
Purple light, buzzer has ticking sound	The system is normal, the ink bottle is empty, please replace the ink bottle, and run the automatic shutdown for 10 minutes.
Red light, Buzzer keep beeping	The ink bottle is empty, please check the ink level.

Step 4: Press the printer start/stop button, the system starts to automatically draw ink. It takes takes about 10 minutes for the system to complete the secondary ink cartridge refilling process. Do not operate the machine during this process. When the ink drawing process is finished, the system will emit a long beep sound. The system status light is in constant green color (if old ink bottle, it may be in constant other colors).

Step 5: Keep pressing the ink pressing button on the printer, do not release it, until the nozzle of the printhead discharges ink and there is no air bubble. The system will automatically recycle the ink, no need to worry about the ink outflow problem. When the button is released, the system will replenishes the secondary cartridge again, until the ink is completed, the system will emit a



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long beep sound and the system status light will be in constant green color. At this point the printer completes the new printer ink loading process.

Note: When printing, the system should be in running state, that is, the status light is always on. If the status light is flashing, press the start/stop button to turn on the ink supply. The system will automatically replenish the ink in future using . The system will record the state before the power is cut off. If it is powered off during running state, it will automatically turn on the ink supply in the next time startup. The ink supply does not need to be turned off before shutdown. Failure to properly install the ink bottle may result in failure to start the printer, or failure to refill the ink, etc.

3.2 Software Introduction

1. Connect the printer cables (such as the power adapter, the controller to the printer, one controller can connect with multiple printers, the number of connected printer is determined by the performance of the controller), turn on the controller and the printer power switch, and wait for the machine to fully enter into the main interface:





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This button is the software turn off button, the printhead must be in stop state before the software is turned off.



This button zooms in or out on the print preview image.

(3) Button :

This button is to start or pause the printing, V is the printing stop state,



(4) Button File

Click this button to enter the file management interface.



This button is to refresh the printer and detect the connected printers. When the system is starting up, it will automatically detect all the printers connected to the controller. Click this button to manually refresh the printer. When the system does not detect the printer, the main interface of the system displays as shown below:



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0							
Ð							
Q							
D							
	Scanner Inp	out:					
		6		Printer	Total	Batch	Speed (t/m)
	File	Refresh	Setting				
		$\left(+ \cdot \right)$	i				
V1.0.5	Edit	Diagnosis	System	<			>

When the system detects the printer, all the detected printers' basic information and print preview are shown in the arrow pointing area:





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Click this button to enter the print related parameter setting interface.



Click this button to edit the print file of the printer showing in the current interface.



(c) Button

Click this button to enter the diagnostic interface to view the status of the printer. When the printer malfunctions, you can remove the general fault according to the system prompts in this menu. If it still cannot be used normally after fault removed, please contact your equipment supplier or manufacturer.



Click this button to enter the system setting interface to set system parameters, such as viewing system basic information, setting system language, automatic power on/off, printhead network parameters, remote communication, barcode scanner, and

testing remote communication, etc. (10) The printer name button in the printer list area, as indicated by the arrow in the

following figure:

Printer	Total	Batch	Speed (t/m)
Printer1	Ū	D	0

Click this button to enter the printer operation interface, it can modify the IP address of the printer, and modify the current printer printing count, etc., and clean the printhead by turning on and off the Purge button. The specific interface is as shown:



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			Exit
Printhead IP:	192.168.0.164	Modify	
Total Count:	0	Modify	Reset
		Purge	eOn
		Purge	eOff

3.3 Edit Message



Step 1: Click the **File** button to enter the file management interface; the area indicated on the figure can choose to view pictures, databases, and log files;



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File	0 +		
Q	Select All	Preview(50%)	
🖶 Printable File	0003.ecj	F=1 HP. F=1	
🖾 Picture	0005.ecj		2019/04/08000
📰 Database	1.ecj		2019/04/08 生产日期: 2017-12-11
🖹 Log	2.ecj	EC-ĴET	生产批号: 20171211G 保质期至: 2019-12-10
	FileNew.ecj		
	gujin.ecj		
	NewFile.ecj		

Step 2: Click the button to enter the message name input interface, enter the name of the new message. If you need to use other delay parameters, you can change the default parameters of the print delay to other value. The print width is automatically adapted when editing the message, no need to modify.

	Job File: NewFile.ecj		Exit
	Print Width:	+ 200.00	
	Print Delay:	+ 100.00	
	Print Hight:	T /1.8	-
		ОК	Cancel
Step 3: click	OK to enter the mess	sage editing inter	face



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You can edit the data needs to print in this interface.



Select the type of printing message required in **Picture**, you can add the required printing

message freely in the editing area.



Example: Add text, click **Text** to enter the add text interface



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Basic Attributes				Exi
Text Content Image Pr	eview		🔟 Delete 🛛 🖉	Edit 🔂 Add
Font:	Arial Unicode MS	Font Ty	/pe:	Regular
Rotate Angle:	+ • -	- Font Siz	ze:	+ 60 -
Vertical Scaling Factor:	+ 1.00 -	- Horizor	ntal Scaling Factor:	+ 1.00 -
			OK	Cancel

Font:	Arial Unicode	MS 🖳	Font Type:	Regular		
Rotate Angle:	+•	-	Font Size:	+ 60	-	
Vertical Scaling Factor:	+ 1.00	-	Horizontal Scaling Factor:	+ 1.00	-	
						to sele

Click

the font attribute of the text ; please note that the horizontal scalling factor is the zoom ratio of the print image in the horizontal direction;





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	Insert Variable	
	Static Text Static Text Batch Number State/Time Shift Code State Remote	
	OK Cancel	
Click		
Static Text	Batch Number O Date/Time O Shift Code O Database Remote to	add a

different field.

As shown in the figure below, static text field and time field have been added. Different colors correspond to different fields. The position of the field can be changed by selecting and dragging it.

Text Content	Image Preview	间 Delete	🖉 Edit	🕂 Add
Made in Chi	na 4.0 2019/04/09			

After adjusting the properties of the text and confirming the preview is consistent with the desired print content, click "OK".





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You have successfully added a "text" to the printing message.

In a similar way, you can add "text", "bar code", "picture" as needed in the message.

In addition: you can use the toolbar to re-edit, delete, paste, adjust the message alignment, zoom the display interface, and fine-tune with direction key to the added filed in the message. You can also select and drag freely.



Click **Attributes** to modify the current message file name, print delay and other attributes, the interface is as shown below:



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Print Width:		+ 120.92	-
Print Delay:		+ 100.00	-
Print Hight:		71.8	-
Automatic Ada	ptation Width		

Step 3: Save and return after editing the message

File		- 🖉 🖬 🔂 🔂 🐯 📀 💷
Q	Select All	Preview(50%)
🖶 Printable File	FileNew.ecj	
■ Picture	gujin.ecj	Made in China 4.02019/04/09
= Database	NewFile.ecj	
	NewFile0.ecj	
🛱 Log	NewFile1.ecj	
	NewFile2.ecj	
	NewFile3.ecj	NewFile3.eci
	NewFile4.ecj	

You can see the edited content in the message preview.



to apply the currently selected message to all printers;



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Click to apply the current selected message to the printer corresponding to the current preview interface. The printer will print the current selected message when start printing. When there are multiple files in the file list, you need to use this function to select different printing messages. Click this button here to execute the last edited test message. After clicking, the system will automatically return to the main interface.

(b)	Printer1-N	lewFile4.ec	j				
	Ma	de in Ch	ina 4.0	2019/04/0	09		
							_
	Scoppor In	put:					
	Scanner in	put.		Printer	Total	Batch	Speed (t/m)
	File	Refresh	Setting	Printer1			
V1.0.5	Edit	Diagnosis	i System				

3.4 Print Settings

Click setting to enter the print setting interface, where the related printing parameters of all printers can be set, and each printers are set in the same way:



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Printer1	After the current parameter interface is modifie Select the printer and do the settings the button to finish the settings.			
Printer1	Job File: 1.ecj		භීර්	onfig Exit
	Printhead Config	ic printing parameters		
Printing	Print Width (mm):		Conveyor Speed (m/min):	+ 13.0 -
Ink	Printhead Offset (mm):	100.0 —	Continuous Print Times:	
Printhead	Print Direction:	ABC→	Protection Distance (mm):	+ 100.0
	PhotoCell Mode:	Related parameters of printhea	d information Print Interval (mm):	+ 0.0 -
	Encoder Mode:		Fire Frequency:	1535.44Hz

Printhead offset: When multi-printheads splicing printing is involved, this parameter can modify the relative position of the printed image between the printheads;

Printer1		
Printer1	Job File: NewFile4.ecj	Config Exit
Printing	Printhead Information	
Ink	Base Voltage (V):	↓ ≥0.8 ─
	Gray (1-8):	
Printhead	Column Offset Voltage (V):	+ 0.0 -
	Heating Temprature (°C):	4 0.0 —
	Column Calibration:	+ 13568
	Horizontal Resolution (DPI):	180



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Base voltage: the reference voltage when the current printhead is printing. This parameter setting is given by the manufacturer's test. The value may be different for different types of ink and different printheads;

Gray(1-8): This parameter is not used yet, reserved;

Column offset voltage: This parameter is offsetting on the reference voltage; it should not be adjusted too much, or it will be easy to burn the printhead;

Heating temperature: The temperature of the ink when the printhead prints an image. This value is given by the manufacturer's test. The value may be different for different types of ink and different printheads;

Column calibration: This value is determined by the speed, the software will automatically calculate, usually no need to modify;

Printer1				
Printer1	Job File: NewFi	le4.ecj	()	Config Exit
	Printing Attributes			
	ID: 00	00000000000000fffbbffb00	08e306	
Ink	IP:	192.168.0.164	Per Purge Cycle Times:	
Duinth and	Port:	7070	Data Mode:	Static
	Print Hight (mm):	-	Buffer Size:	+ ¹ -
	Printhead Name:	Printer1	Auto Cycle Purge:	(iii) Off

ID: Corresponding to the printer, one printer corresponds to an ID and cannot be modified;

IP : The network IP address of the corresponding printer cannot be modified.

Port: the receiving port of printer which for communication between the printer and the controller software;

Print height: print image height, not modifiable;

Printhead name: The name defined by the current printer user can be changed to any name according to the requirements;

Automatic cycle cleaning: This function is not available for now. If the function is available, set the number of cleaning times per cleaning cycle, and set the cleaning frequency;

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Data mode: Static mode means the printing image can not change(except using remote communication mode), it must be set to dynamic mode in the high speed printing application to adapt to the production line speed, wherein the buffer size value is the number of images that the print data buffered to the printer. The value can be adjusted according to the actual scene. (Special note: under the remote mode, when the data mode is static mode, when receiving remote data, it will immediately refresh the print image mirror and no cache; when the data mode is dynamic mode, when the remote data is received, it will refresh the print image mirror when the last printing action is completed, and the printing data is buffered into the printer;



In the basic information interface, you can view basic system information, such as software version, area code, machine serial number, controller IP and other information;

3.5 System Setup



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3.5.1 General Settings

Click "General Settings" to enter the general settings interface:



to save the modified parameters.



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3.5.2 Printhead Network Settings

Click "Printhead Network Settings" to enter the printhead network setting interface:

System Option			Exit
Basic Information	EC-JET		
© General Settings			
Keyboard Management			
Printhead Network Setting		_	
Remote Settings	Host IP:	192.168.0.164	
Remote Test	Client Port:	7070	
Scanner Mode	Payload(X512+32):	5152	
		· · · · · · · · · · · · · · · · · · ·	Setting

Host IP: the IP address of the network card used by the software;

Client port: the receiving port number of the printer, when the controller communicates with the printer;

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Payload: it is the size of the transmitted data packet. This value is generally no need to be modified. If it needs to be modified, modify according to the specified format (integer multiple of 512 +32, and less than 65472);

3.5.3 Remote Settings

Click "Remote Settings" to enter the remote settings interface:





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Remote mode: Remote mode can choose to use serial port or network for communication. When remote mode is serial port, configure the serial port related parameters, open serial port test to send and receive remote data in remote test interface, and test remote communication.

3.5.4 Remote Testing

Click "Remote Testing" to enter the remote testing interface to test the remote communication:



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System Option		Exit
Basic Information	EC-JET	
© General Settings		
Keyboard Management		
Printhead Network Setting		
© Remote Settings		Hex Display
🌣 Remote Test		Clear Receive
Scanner Mode	www.ec-jet.com	
		Hex Send
		Send
		Clear Send

3.5.5 Scanner Mode

Click "Scanner Mode" to enter the scanner mode setting interface:



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System Option		₽			Exit
Basic Information	EC-U	EL			
© General Settings	Scanner Mode Enal	ole:			
Keyboard Management	Scanner Type:		USB		
Printhead Network Setting	Field ID:		A		
Remote Settings	Associated File:				
n Remote Test	Select Associated F	ile:	e/Database/Associa	ated.txt	B
	Content Positioning	0,2],[13,1	5],[6,9],[9,14],		
🌣 Scanner Mode	Effective Content:	217,445,8	993,328944		
	Test Sample:	21779189	93289445		
				*	Setting

Scanner mode enable: Turn on or off the scanner mode;

Scanner type: The scanner type can support both USB and serial ports;

Field ID: corresponding to the filed ID that already exists in the print file, one-to-one correspondence;

Associated file: Whether to associate the scanner scan content with the print execution file, if it's enabled, then the function is enabled;

Select associated file: Click to select the associated file comparison table, where the associated file comparison table is UTF-8 encoded txt text, one data corresponds to an execution file name (Note: the execution file name does not have a suffix, and does not contain a path, otherwise the software cannot parse correctly), the file reference format is as shown in below:



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Associated.txt - 记事本	-	×
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)		
2177918993289445 FileName0		^
2177918993289446 FileName0		
2177918993289447 FileName0		
2177918993289448 FileName0		
9343567358143759 FileName1		
5589017190118768 FileName1		
1725665556073068 FileName1		
8921117002097170 FileName1		
3116777744942172 FileName1		
0352224109927482 FileName2		
5558877982831780 FileName2		
8960976626790592 FileName3		
4236438460705602 FileName3		
0442088814680611 FileName3		
6688537548694712 FileName3		
3864086004539022 FileName5		
9040646429513528 FileName5		
5236191212408636 FileName5		
1432749677423831 FileName5		
7648293400357740 FileName5		
3894840865312940 FileName5		
0050309311377259 FileName4		
6276957053241254 FileName4		
2442404391206969 FileName4		
8628050095190070 FileName4		
4874507540155379 FileName3		
0000160945090388 FileName3		
6246611668064483 FileName3		
3481169123909796 FileName1		
8647710867913893 FileName1		
5963269383838300 FileName1		
1149825076883401 FileName1		
7395372531747711 FileName3		~

Content positioning: locate the location of the content printed by the printer in the content read by the scanner, and support any position where the actual existence exists and any combination;

Test example: used to locate the content to be printed, and fill in the content obtained by the scan. The specific operation refers to the example in the figure;

After the scanner is set, input the identified content in the input field of the main interface scanner, the content will be loaded into the print execution file to perform printing.



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Chapter 4 Precautions

4.1 **Printer Precaution**

1. Prevent liquid (ink/water etc.) from contacting electronics part which may cause short circuit and printer failure.

2. Printer must be electrically grounded.

3. This Printer might not suitable for high humidity, high temperature, very dusty and vibrating environment.

4. Do not connect power adapter to supply which is beyond 110V-240VAC, 50/60Hz, to prevent fire hazard.

5. Printhead is a precision engineering component, do not wipe the nozzle with non-designated materials. User must strictly follow the cleaning procedure to avoid scratching to the nozzle.

6. In case of accident (smoke, burning smell, liquid fell/contact with electronic parts), please turn off the power supply immediately and contact manufacturer for further action.

7. Please contact manufacturer if printer is abnormal, do not dismantle the printer which will void the warranty.

4.2 **Printhead Precaution**

1. Handle the printhead with care. Make sure to open the nozzle cover when using.

2. Gentle reminder: In order to improve the printing effect and extend the lifetime of the printhead, when the printer is continuously working for 8 to 12 hours or doesn't work for more than two days, it is recommended to carry out the ink pressing process and wipe the surface of the printhead with a clean non-woven fabric/non-woven tissue. If the working environment of the printer is dusty, it is recommended to do the printhead maintenance more often.

3. If there is occasional nozzle blocked during printing, first check the nozzle surface for impurities. If there is, do the ink pressing to wash the nozzle surface with ink first, do not wipe the nozzle when the nozzle surface has impurities. When the nozzle surface is no impurity, wipe the nozzle surface with a clean non-woven fabric/non-woven tissue and do the print test.

4. In order to better protect the printer and maintain a stable print quality, it is recommended to do ink pressing for 2-3 times each day before starting.



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4.3 Warnings

1. The printer is sensitive to static electricity. The installation site must be well grounded: the voltage between the neutral and ground does not exceed 1V.

2. Use special cleaning fluid to clean the printhead. It is strictly forbidden to clean inside the printhead and ink path with water or other liquid, otherwise the printhead may be damaged.

3. It is forbidden to plug and unplug all the plugs or connecting wires on the charged printer, otherwise the circuit or the printhead may be damaged.

4. Please wipe the printhead with a special cotton swab or non-woven fabric soaking the cleaning solution to avoid scratching the surface of the printhead. Otherwise, the surface film of the printhead will be damaged, and causing ink dropping or and bad printing on printhead, which will affect the normal use of the printhead.

5. When wiping the nozzle, do dot use too much force, otherwise it will damage the nozzle; when wiping, it can only be wiped in one direction, do not wipe back and forth.

6. The printhead will have a reference voltage when it leaves the factory. Generally, the software reference voltage is consistent with the factory voltage. It depends on the actual environment. The optimal working voltage of the printhead is as low as possible without affecting the printing effect. If the printhead voltage is too high for a long time, the electrode load of the printhead will be too large. When the temperature is too high and the voltage need to be lowered, there might be blurry printing, ink missing or other printing problems.



EC-JET High Resolution Inkjet Printer

Appendix Dimensions of Printer and Printhead



















