

JF-240UV User Manual



http://www.GCCworld.com



GCC GCC Club

V.7 2019 May.



JF-240UV User Manual

Dear Sir / Madam,

Thank you for choosing GCC and the JF-240UV Flatbed Printer. You can be assured that this machine meets the highest safety standards while using technological innovations shared by no other UV printer. JF-240UV Flatbed Printer is backed by GCC, a truly international company that is dedicated to help your business grow.

We at GCC are proud to introduce the JF-240UV Flatbed Printer, our most technologically advanced UV printer to date. This easy to operate machine has been designed with quality, productivity, and safety in mind. With innovations like SmartMESH[™], patented color varnish, and outstanding quality with high productivity, the JF-240UV is clearly on the cutting edge of all UV inkjet systems. GCC understands that a creative technical background is the key to successful growth in the ever-changing information economy. We have a strong team of R&D experts who propel our company to new heights. From product development to manufacturing, our engineers are dedicated to innovation and quality.

Guiding our solid technical base is a world-class management team. At GCC, our leaders bring together marketing, technical support, research development and distribution experts to create an international network to meet your demands. Over the years, this network has been able to span throughout the globe. Our technical support staff is committed to provide you with impeccable service, and when your business is ready to grow, our team will be there!

Sincerely, Leonard Shih President of G.C.C.



Release Note

Version	Change		
	Add Release Note page		
V.1 2016 Sep.	Add 6.9 Reset Pressure Gauge with Atmospheric Pressure		
	Delete Chapter 7 and Chapter 8 (Optional items)		
V.1-1 2016 Nov.	Re-organise chapter structure		
	Add 4.2 Time Locker (page 36)		
V.2 2017 Jan.	Add 5.2.10 How To Create Custom Pattern for Varnish Printing		
V.2 2017 Jan.	Add 5.3.6 5.3.6 How To Set Arc mode for Dome Shaped Braille Characters/Patterns		
	Printing		
V.32017 Jun.	Add 5.3.7 How To Create Raised Printing Effect		
V.4 2017 Aug.	Rename printing mode, change from production mode to high speed mode.		
V.4 2017 Aug.	Add 5.3.8 How to set UV lamp Curing mode for bright color printing.		
V.5 2018 Jan.	Removed wiper and ink sponge, capping sponge		
V.5 2018 Jan.	Add Chapter 6.7 Lubrication and Chapter 7 Caldera setup		
	Add QR Code		
	Add 5.2.4 The adjustment value of brightness is not 0, hence, the value has		
V.6 2018 May.	been set to 0 as default		
	Add 6.8 How to replace alignment rule		
	Update FlexiPRINT GCC Edition V12		
V.7 2019 May	Add 5.3.9 How to set CorelDraw for Spot White		



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Chapter 1 Introduction

1.1 Warning

These symbols are applied in the user manual for the safety precaution and to prevent equipment from damage. These symbols are informational notice. Please do understand meanings for each of these symbols and its related safety precautions prior operate the equipment.

No.	Safety label	Graphic	Content
1	Warning		The symbol indicates that fire is prohibited. The ink and the fluid discharged out are highly flammable.
2	High Voltage	HIGH VOLTAGE ELECTRIC SHOCK OPERATE CAREFULLY	The symbol indicates high voltage. Remove the lid could lead to expose to high voltage or electric shock.
3	Warning		The symbol indicates that the ink is health hazardous. The ink and fluid discharged out is health hazardous, avoid body contact.
4	Ink Leaking	Avoid the ink Leaking. Turn off all valves above printheads before switching off the printer	The symbol indicates to avoid the ink leaking. Turn off all valves of print heads before switching off the printer.
5	Ground Wire	Electronic shock Keep the ground wire connected.	The symbol indicates the machine should be grounded before conducting any maintenance or cleaning operation due to possible electrostatic discharge.



6	Printing Warning		The symbol indicates that during the printing process do not put your hands in the printing area to avoid injury.
7	Avoid Injury Warning	WARNING Avoid injury keep hands away from moving parts	The symbol indicates that during the printing process do not put your hands in the area to avoid your hands being pinched by moving parts.
8	Keep Clear Warning	WARNING Keep this area clear at all times	The symbol indicates that do not put objects in addition to print media on the print area at all times to prevent print head being crashed by obstacles.
9	Do Not Push Warning	WARNING	The symbol indicates that do not push carriage axis while moving the machine.

1.2 Inks Safety Information

Health Effects of Exposure to Ink

Contact by	Effect
Inhalation	Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea,
	and headache.
Skin	Can cause dermatitis or irritation that may last for hours or days, but
Skin	unlikely to result in permanent harm.
- Evro	Can cause severe irritation, tearing, and burns that may eventually lead to
Eye	permanent impairment, including blindness.
Guallaur	Can cause severe irritation to mouth, throat, and stomach, may further
Swallow	inflict abdominal discomfort, nausea, vomiting and diarrhea.



Disposal Considerations

Waste ink contains hazardous substances. Do not dispose waste ink with household rubbish. Do not allow product to reach sewage system. Recommend to dispose waste ink according to official regulations.

1.3 First-Aid Measures

Contact by	Remedy	
Inhalation	Breathe in fresh air and consult a doctor in case of complaints.	
Chin	Immediately wash with soap and water then rinse thoroughly. If skin	
Skin	irritation continues, consult a doctor.	
	First and for most, flush your eyes with plenty of water. Then, tilt your head	
Evo.	to prevent chemical from transferring to the uncontaminated eye. Finally,	
Eye	seek immediate medical attention and monitor the eye as advised by your	
	physician. Inform your physician that your eye was exposed to chemical ink.	
Swallow	Do not induce vomiting. Drink copious amount of water or milk to dilute	
Swallow	and breathe in fresh air, then, seek medical attention immediately.	

1.4 Personal Protection

Protection	Solution	
Respiratory Protection	Ventilation may be required depending upon conditions of use.	
Skin Protection	Avoid skin contact by wearing safety gloves. Clean protective equipment regularly. Then, wash hands and other exposed areas with soap and water before eating, drinking. When leaving work, drink a lot of water.	
Eye Protection	Wear safety glasses with side shields when handling ink to avoid the possibility of eye contact by slashing or spraying liquid. Do not wear contact lenses.	



1.5 Equipment Installation Precautions

GCC JF-240UV shall be installed in a relatively clean, free from dust environment and the surface for the equipment to be installed shall be stable and flat. We suggest that you install the equipment in an air-conditioned environment to control the appropriate temperature and humidity. To ensure the equipment and the materials reach to the room temperature 24 hours prior in operation. For the environment shall meet following conditions:

	WARNING	
Prohibit on exposure under direct sun light	Prohibit on setting up on tilt surface	Temperature and humidity
		The operation environment for this equipment: 22 to 30°C (71.6°F to 86°F) 40% to 60% (humidity)
Avoid locations with vibration	Avoid locations with strong air current	Avoid locations with flame



1.6 Ink Operating and Storage Environment

Store the inks away from direct sunlight or other lighting sources, including fluorescent lighting. Store them away from acids, alkalis, and oxidizing material as well. Additionally, keep container tightly closed in a dry, cool, well ventilated place.

The recommended ink storage temperature as following:

* Temperature: 22°C to 30°C (71.6°F to 86°F). Humidity: 40% to 60%.

Please do ensure the ink storage temperature and humidity.



Chapter 2 Equipment Main Body Introduction

JF-240UV flatbed printer is designed for printing on rigid, cylinder and roll materials. Cylinder or roll materials are only available with the rotary attachment or roll to roll system optional items.

JF-240UV Maximum material width: 610mm x 508mm (24" × 20")

2.1 Flatbed UV Printer

The innovative GCC Flatbed UV Printer can complete short runs and on-demand printing.

Following the high quality of GCC products, the new GCC Flatbed UV Printer comes with high throughput, reliable printing preference, user-friendly interface, touch screen control panel and creative features. GCC Flatbed UV Printer accommodates standard four colors CMYK, and optional Varnish and White color that offer you the outstanding printing quality.

In addition to the application for sign industry, like signage and signboard, GCC JF-240UV Flatbed Printer is dedicated to applications of custom items, including promotional items, décor, stickers, packages, personalized products and much more to fulfill all your needs.

With applicable to a maximum of 30cm tall object and supportive to pass through printing ability, GCC JF-240UV Flatbed Printer eliminates the limitation of printing. Along with the optional roll-to-roll system and rotary system, users are allowed to work on a wide variety of applications, including flexible media, such as vinyl, wall stickers and heat transfer film to rigid material, such as acrylic, PC and foam board; furthermore, users can print preferred patterns on personalized items, such as phone cases, bottles, etc. GCC JF-240UV Flatbed Printer is the most suitable equipment for custom items with stunning quality.

2.1.1 JF-240UV Flatbed Printer Key features

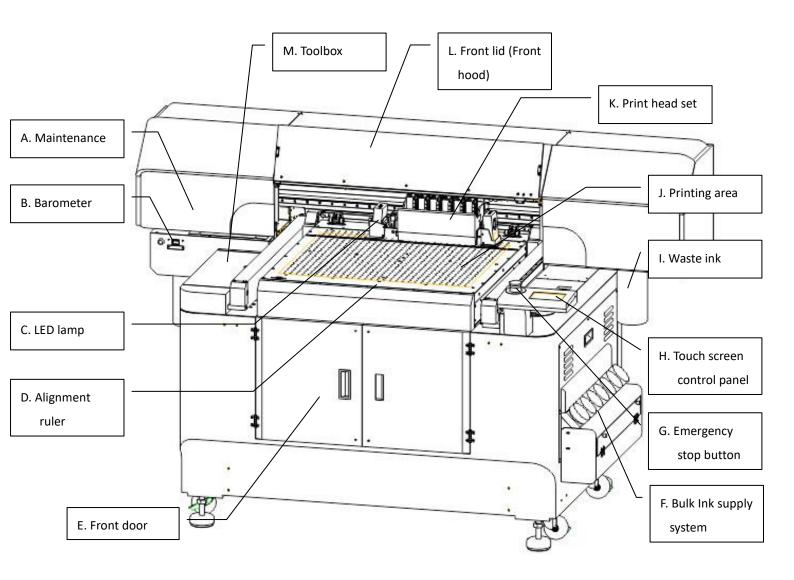
Features:

- 1. Maximum print area: 610x508mm (24"x20")
- 2. Media thickness up to 300mm (11.8")
- 3. Print resolution of up to 1,440dpi
- 4. Acceptable media weight up to 15Kg
- 5. Maximum Print Speed: 5.78 m²/hr
- 6. Auto Media Calibration (AMC[™])
- 7. Bundled FlexiPRINT GCC Edition RIP software
- 8. Touch screen control panel
- 9. Roll to Roll (Optional)
- 10. Rotary Attachment (Optional)
- 11. Dual LED lamp
- 12. Pass through doors to accommodate long working objects
- 13. Motorized Z axis adjustment
- 14. High printing speed model is available, which can uplift two times printing speed of the 512 print head model.



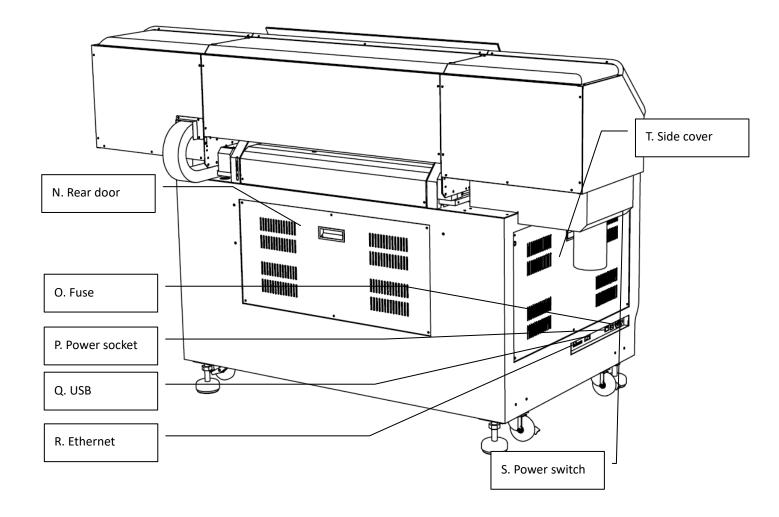
2.2 JF-240UV Appearance

2.2.1 JF-240UV Front View





2.2.2 JF-240UV Rear view





2.2.3 JF-240UV Parts Description

Parts Name	Description
A. Maintenance	Maintain print head cleanness
B. Barometer	Ink pressure adjustment and display.
C. LED Lamp	LED Lamp for curing after printing
D. Alignment Rulers	Media can be aligned with the guide line marks
E. Front Door	Keep closed. Unless in necessary to open it up for loading the
	material.
F. Bulk Ink supply	Where the bulk ink bottle are installed
system	
G. Emergency Stop	Stop the machine under emergent condition.
Button	
H. Touch Screen	Set and display JF-240UV printing settings.
Control Panel	
I. Waste Ink Bottle	Waste ink area. When waste ink is full, please take down the
	waste ink bottle and dispose it.
	(Please follow the local regulations to dispose the waste ink to
	prevent contaminating the environment)
J. Printing Area	The area where JF-240UV conducts the inkjet printing.
K. Print Head Set	Printing graphic image
L. Front Lid	Keep closed to prevent eyes from being damaged by LED UV light.
M.Toolbox	Store commonly used tools.
N. Rear Door	Keep closed. Unless in necessary to open it up for loading the
	material.
O. Fuse	3 Amp fuse to protect the circuits.
P. Power Socket	Hold the AC power cord.
Q. Ethernet	Provide network connection between JC-241UV and computer.
R. USB	USB connection.
S. Power Switch	Switch on / off the power supply
T. Side Cover	The side cover of JF-240UV



Chapter 3 Installation Procedure

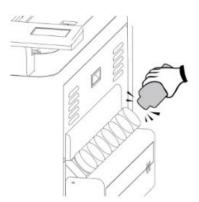
3.1 Machine Setup

3.1.1 Turn On The Power

Step 1 Please check the ink chip is inserted properly into the corresponding slot.

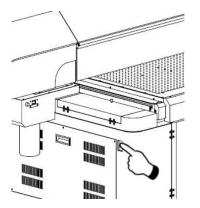


Step 2 Fill each color of ink bottle with corresponding color of ink. It is suggested to horizontally shake the White ink 15 times before filling in the bottle or stir the White ink manually before printing.



Step 3 Plug in the power plug and connect to the internet, then turn on the machine.

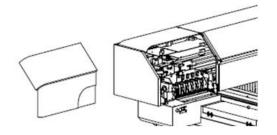
Note: Please wait for 5 seconds to turn on/turn off the power if you need to restart the machine.



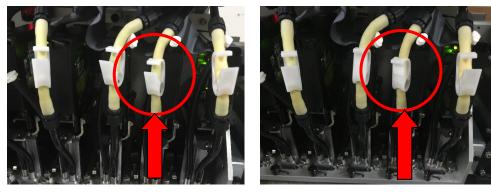


3.1.2 Set Ink Flow To Printer Heads

Step 1 Remove the thumbscrew and open the left cover.



Step 2 Open the ink valve.



Ink valve is opened

Ink valve is closed



1. Entre FLATBED mode.





3. Select MAINTENANCE



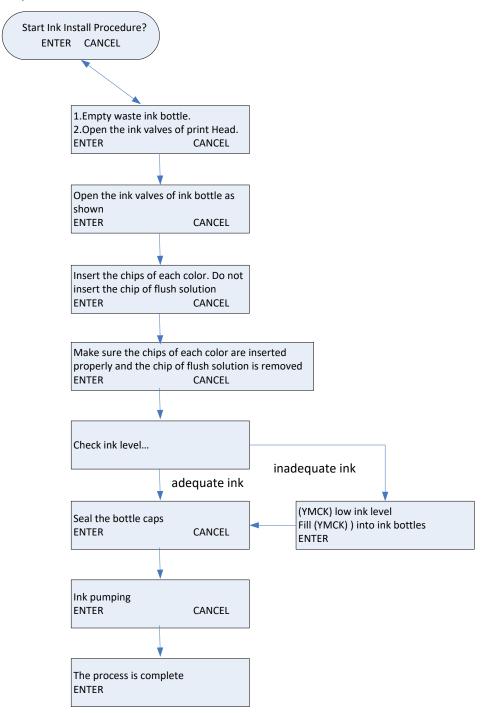
4. Select INK INSTALL/DRAIN



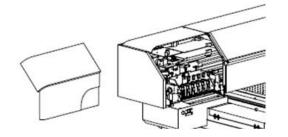
5. Select INK INSTALL FLOW



Step 4 Ink install flow:



Step 6 Close up the left cover and fix it with thumbscrews.





3.2 Software Setup

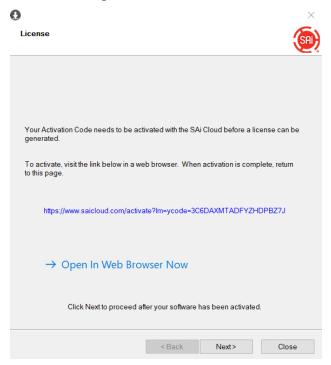
3.2.1 Softkey Installation Instructions

Insert the DVD and run the installation and follow the instructions. Disable your antivirus software before installing FlexiPRINT GCC Edition.

When the Install Manager dialog comes up, enter your password here:

0	\times
Activation Code Enter an Activation Code to get a license	(SA)
When you purchase new software it comes with an Activation Code. Enter the Activation Code below.	
Activation Code:	
If you are having trouble getting the license directly, you can get a license from our website.	
Get License From Website	
< Back Next > Clo	se

1. Select "Open In Web Browser Now."



2. Select "I am new to the SAI Cloud", then select Create Account and click confirm



Activate Software



Step 1. Login to your SAi Cloud Account

Create A Free SAi Cloud Account
◯ I am a returning customer
I am new to the SAi Cloud
Enter your email address to get started.
Important: The email address you select for this SAi Cloud account will be the owner of the software. It will be used for all SAi software services. It is recommended you use a permanent business email address.
(ex. john@example.com) Create Account

3. Select "Activate Now"

Activate Software

	Software ID	0571258	SAD SIMPLIFYING EXCELLENCE	FlexiPRINT 1 Edition	2 TechJET Pro
FH	Product	FlexiPRINT 12 TechJET Pro Edition	echJET Pro Edition	Software ID	0571258
	Troduct	FICAL PART 12 FECHDE F FIO Edition		Product	FlexiPRINT 12 TechJET Pro Edition
	License Type	TRIAL		License Type	TRIAL
			//	Expires	2018-05-28
	Options		Activation Code 3C6DAXMTADFYZHDPBZ7J	Language	All Languages
				License Date	2018-04-26
Step 2. Add Software to your SAi Cloud Account		Active Build -	Getting Started		
Add To SAi Cloud Account		History Software Activated Cote:	Download Now Step 2 - Install	d buffen below will download a small application. Run the application to download your software	
This software license will be added to your SAi Cloud Account.			Once the download is co application.	mplete, run the installer. The final step in the install process will run a "License Manager"	
			Step 3 - License The "License Manager" a 3C6DAXMTADFYZ "License Manager" can't		



4. The FlexiPRINT GCC Edition is installed.

License Success		×
	Licensing Successful	
	< Back Finish	Close

5. Select "Yes,I want to restart my computer now."

FlexiPRINT 12 TechJET Pro Edition

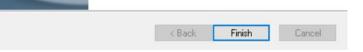
InstallShield Wizard Complete

The InstallShield Wizard has successfully installed FlexiPRINT 12 TechJET Pro Edition. Before you can use the program, you must restart your computer.

Yes, I want to restart my computer now.

O No, I will restart my computer later.

Remove any disks from their drives, and then click Finish to complete setup.



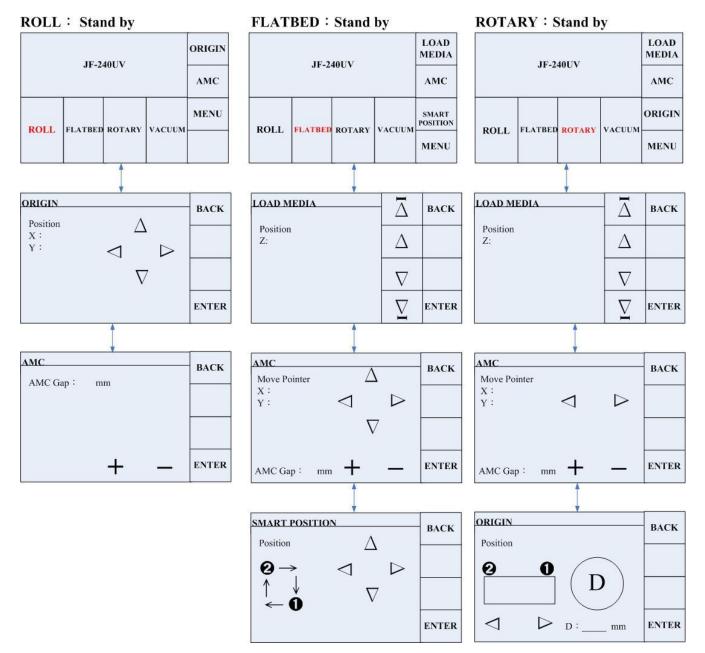


Chapter 4 Control Panel

This section mainly describes JF-240UV Flatbed Printer's touch screen control panel, work flows and key operations.

4.1 Control Panel Workflow

Operating work flow:

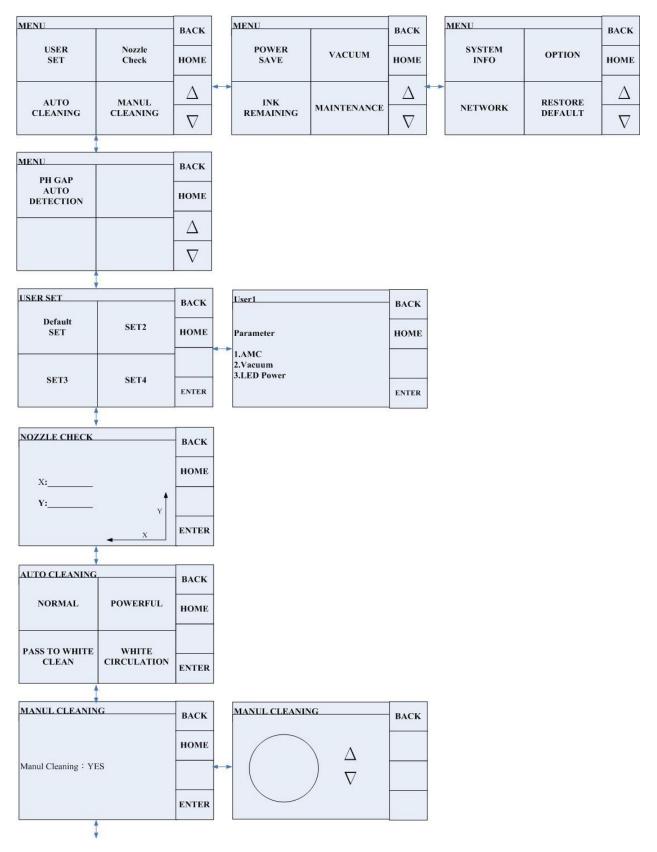




	F-240UV	F-240UV
Position: X: Y:	Position: Z:	Position: Z:
AMC AMC Gap:	AMC Move Pointer X: Y: AMC Cap:	AMC Move Pointer X: Y: AMC Cap:
	Position :	Position: D: mm



Operating work flow:

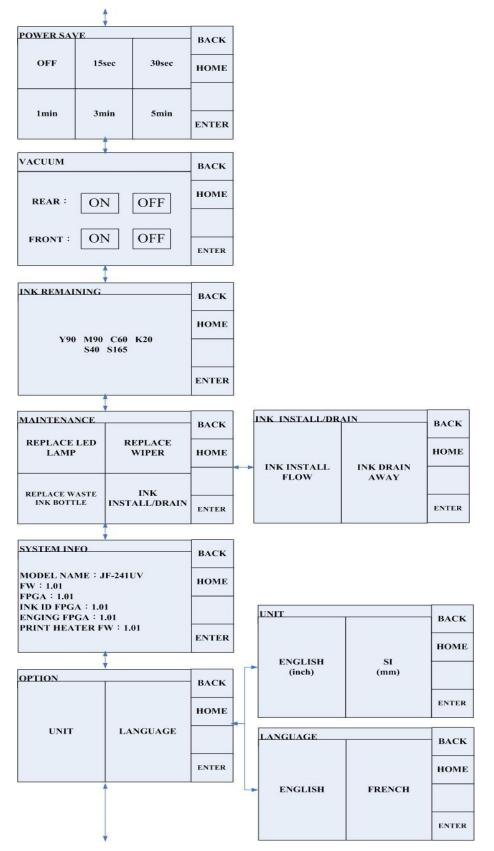




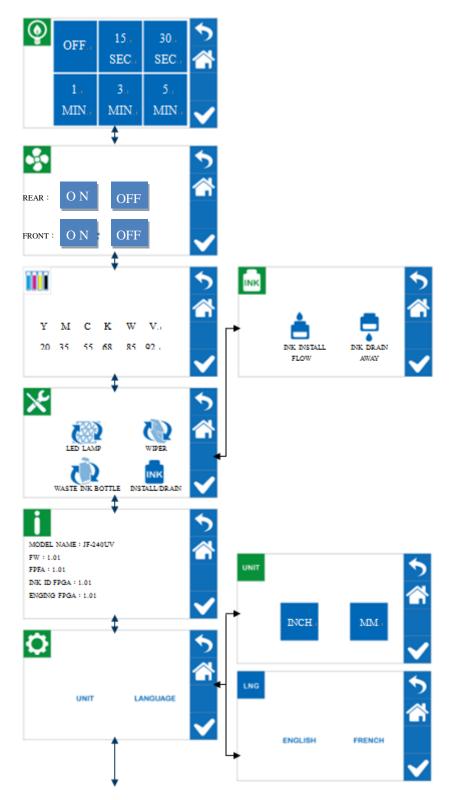
Control panel flow: ۲ l f USER SET SYSTEM INFO NOZZLE CHECK POWER SAVE VACUUM OPTION 3 AUTO CLEANING MANUL CLEANING INK REMAINIING MAINTENANCE NETWORK RESTORE 5 谷 ▲ E PH GAP AUTO DETECTION ित PARAMETER : АМС DEFAULT SET1 VACUUM υl SET3 LED POWER SET2 x : _ Y: Y Х 3 POWERFUL NORMAL W SW2 PASS TO WHITE CLEAN W CIRCULATION \$ I. MANUL CLEANIING : YES



Operating work flow:

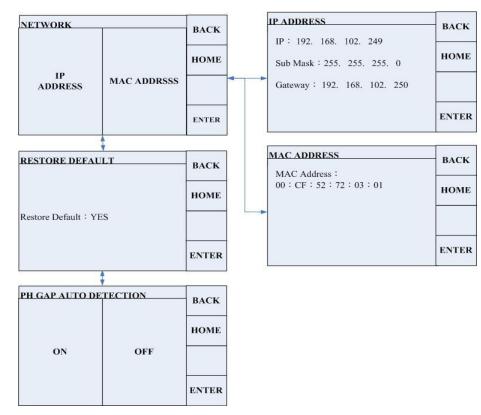


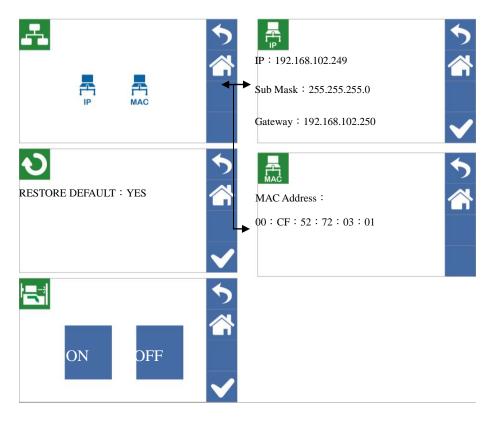






Operating work flow:





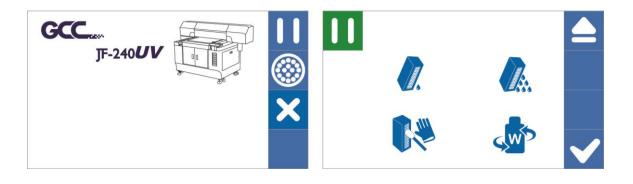


PAUSE while printing: Users can pause on the printing job by pressing the PAUSE button and proceed to cleaning procedure to improve printing quality.

Operating work flow:

Printing

	PAUSE	PAUSE	RESUME	
JF-240UV	TAUSE			RESUME
31-2400 7	LED LAMP	NORMAL CLEANING	POWERFUL CLEANING	номе
Printing	CANCEL JOB	MANUL	WHITE	-
rinning		CLEANING	CIRCULATION	ENTER





4.2 Control Panel Layout Description

Control Panel Layout Description						
Function	Description	Setting	Default			
Media sizing						
3	Adjustment menu setup key for roll media printing settings (work with roll to roll system)	Optional				
ROLL (Media Roll)						
		AMC (AMC) Automatically detect the media height				
	Adjustment menu setup key for rigid media printing settings					
FLATBED						
	(LOAD MADIA) Set/Place media height					
	AMC (AMC) Automatically detect the media height					
	(SmartPOSITION) Set printing area					
ROTARY	Adjustment menu setup key for rotary attachment printing settings (work with rotary attachment)	Optional				



	LOAD MADIA) Set/Place media height AMC (AMC) Automatically detect the media height		
	(ORIGIN) Set printing origin		
	USER SET		
USER DEFAULT/ SET1/SET2/SET3	 USER DEFAULT : Initial parameters settings SET1~3 parameter settings (Adjust VACUUM/ BAND/AAS OFFSET/BI-UNI setting) 	Can store up to 3 groups	User DEFAULT
	NOZZLE CHECK		
NOZZLE CHECK	Perform print head nozzles checking		



	Normal print head cleaning		
NORMAL			
	Powerful print head cleaning		
POWERFUL			
	Purge white ink for print head cleaning		
	after the defined printing passes are		
W	performed. Select PASS TO WHITE		
	LEAN can define the number of		
PASS TO WHITE	passes for white ink clean.		
CLEAN			
	White ink circulation		
WHITE CIRCULATION			
	MANUL CLEANING		
	When cleaning the print head		
	manually, the cartridge will move to		
	maintenance area on the left hand		
•	side automatically for cleaning.		
MANUL CLEANING			
	POWER SAVE		
	Automatically switches off the display		3 MIN.
	of control panel when the device		
	hasn't been used for a set period of		
=	time, allowable setting are 15 sec., 30		
	1	I	L



POWER SAVE	sec., 1 min., 3 min. and 5 min.		
	VACUUM		
VACUUM	Vacuum function is to ensure material's flatness. This setting can be enabled or disabled. Default is enabled. If choose disable, then there will be no vacuum sucking during the printing operation.	ON/OFF	OFF
	NG		
	Check remaining ink volume * 99 means there is sufficient ink * 0 means short of ink, need to refill ink immediately.		
INK REMAINING			
REPLACE LED LAMP	Automatically move the cartridge to the maintenance area on the left hand side for LED lamp replacement.	YES	YES
REPLACE WIPER	Replace the wiper	YES	YES
REPLACE WASTE INK BOTTLE	Replace waste ink bottle	YES	YES



INK INSTALL/DRAIN	Ink-install flow		
	SYSTEM INFO		
i	MODEL: Display the equipment dimension and model based on factory version settings FW: Display Firmware version serial		
SYSTEM INFO	number based on factory version settings. FPGA : Display FPGA version serial number based on factory version settings. INK ID FPGA : Display Ink ID FPGA version serial number based on factory version settings. ENGINE FPGA : Display ENGINE FPGA version serial number based on factory version settings.		
	OPTION		
INCH	User can choose between Metric or Imperial measurement.	Metric (cm, g) Imperial unit (inches, oz)	Metric (cm, g)
LANGUAGE SET	LCM display language		



	NETWORK		
	IP address		
IP ADDRESS			
MCA ADDRESS	MAC address		
	RFACTORY DEFAULT		
FACTORY DEFAULT	Reset machine setting to factory default.		YES
	PH GAP AUTO DETECTIO	'n	
PH GAP AUTO	Automatically detect the gap between print head and media.		ON
DETECTION			



TIME LOCKER	Set the period of time that the machine can be operated. The Time Locker function can be used for hire of a machine to schools or organizations to manage the rent duration of a hired machine.		OPTIONAL
	PAUSE while printing Descri	iption	
	AMP→		
	Set LED Lamp Curing energy while	ON/OFF	ON
	printing		
LED LAMP			
	CEL JOB→		
X	Delete current print job		ON
CANCEL JOB			
PRINT PAUSED→		I	
NORMAL CLEANING	Normal print head cleaning		ON
	Powerful print head cleaning		ON
POWERFUL			
CLEANING			
	When cleaning the print head manually, the cartridge will move to maintenance area on the left hand side automatically for cleaning.		ON



MANUL		
CLEANING		
	Circulation of white ink print head	ON
WHITE CIRCULATION		



Chapter 5 Operating the JF-240UV

5.1 Hardware Operation

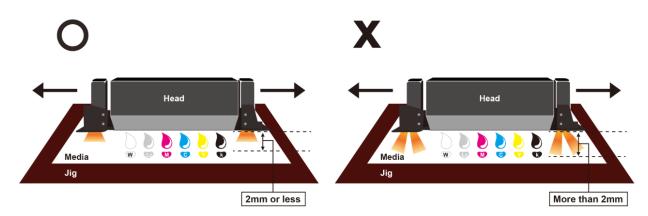
5.1.1 How to Set Flatbed Printing Mode

NOTICE:

The factory setting of the height between print media and print head is 1.5mm.

If the height between print media and print head is more than 2mm, it may cause ink droplet misting or splashing and lead to a grainy and uneven printing.

When the height between print media and print head is more than 2mm, the reflected light from UV curing lamp increases and it can cause the misting ink to be cured, increase the ink visocosity and nozzel clogging, and hence damage print heads.



5.1.2 How To Set PH Gap Auto Adjustment Mode

The PH Gap Auto Adjustment mode:

It is suggested to set the settings to be "**ON**" (the default setting). Turning on the PH Gap Auto Adjustment mode provides the fastest way for users to start printing on the media of which the surface may be not flat or even, and the definite highest position of the media for AMC cannot easily be found. Also, it protects print heads from being scratched by automatically adjusting the print heads to optimized position when obstacle is detected.

When the setting of PH Gap Auto Adjustment Mode is "ON":

If there is obstacle being detected, three steps can be applied,

- **1. Cancel job:** cancel current job and redefine the highest position of the media for AMC to obtain the best printing quality.
- 2. Continue to print by the mode set in FlexiPRINT: The print quality may be decreased, because the print head gap is not the optimum value.



3. Continue to print by uni-direction: The throughput may be decreased and the quality may be slightly affected, because the print mode is forced to set to uni-direction and the print head gap is not the optimum value.

Under the following conditions, the PH Gap Auto Adjustment Mode can be set to **OFF** for advanced users,

- 1. The media is flat or the highest position of the media for AMC is easily to be determined.
- 2. High print quality is high priority:

The platen will not automatically be adjusted to optimized position and the print job will be canceled when obstacle is detected. The optimum print head gap defined by AMC is a critical element for printing quality especially when performing bi-direction printing.

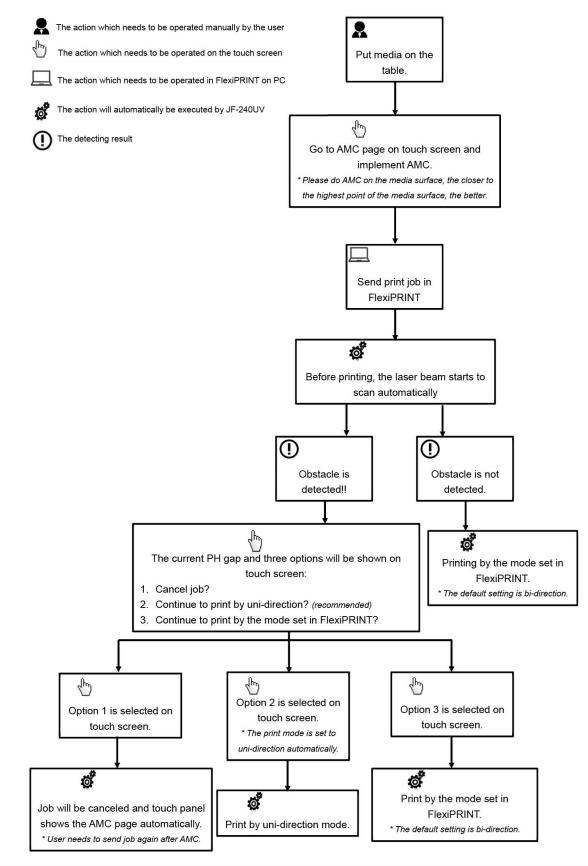
3. High throughput is high priority:

The laser beam scanning speed is faster when the setting is OFF than it is ON, and the default print mode (bi-direction) will not be changed for higher printing speed.



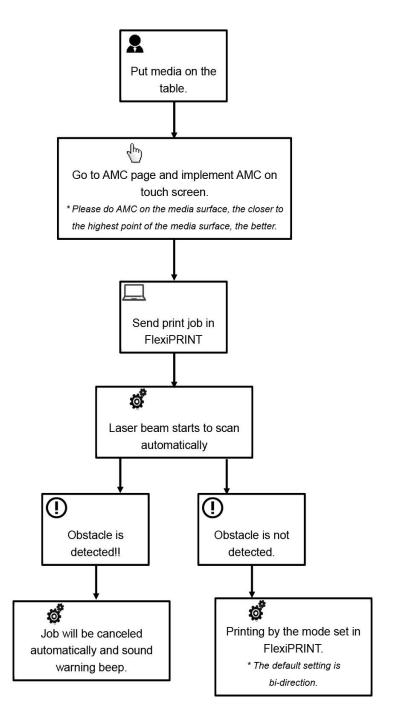
Workflow

A. Set the "PH Gap Auto Adjustment" to be "ON" on control panel: (The default setting)





B. Set the "PH Gap Auto Adjustment" to be "OFF" on the control panel:



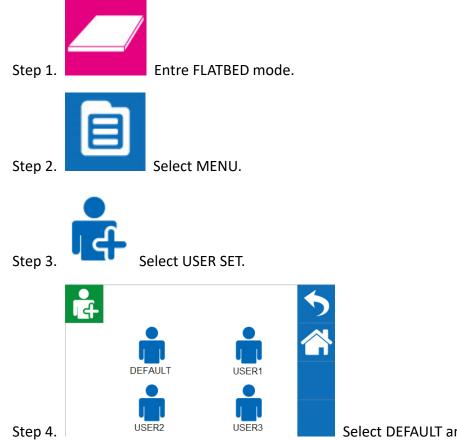


5.1.3 How To Print On Rigid Material

When the setting of PH Gap Auto Adjustment mode is "OFF", refer to the following two exsamples for the instructions of rigid material printing:

Example 1: Set parameter settings of full table print size

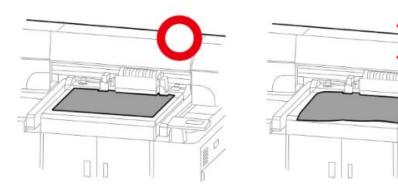
Please load the rigid material correctly according to following steps.



Select DEFAULT and select BACK icon .

Step 5. Place print media on the lower right corner of the platen of JF-240UV.

(CAUTION)



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Step 6. Select LOAD MADIA, and then adjust the height of platen of JF-240 to proper position.

(Note: the printing side should always be adjusted BELOW the print head.)



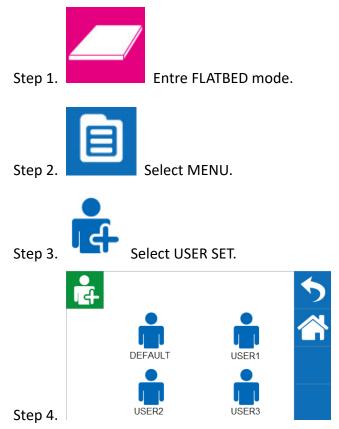
Step 7. Select AMC to autamatically detect the height between print media and print head.

(Note: It is suggested to apply AMC onto the highest position of the media.)

Step 8. Send the file from FlexiPRINT GCC Edition RIP software, and printing is complete.

Example 2: Set parameter settings of SmartPOSITION (define a diagonal as print size)

Please load the rigid material correctly according to following steps.



Select USER 1 and select BACK icon .

(Note: Choose USER1/USER2/USER3 to save the settings of SmartPOSITION, so user can print on the same area without repeatedly setting)



Step 5. Place print media on platen of JF-240UV.



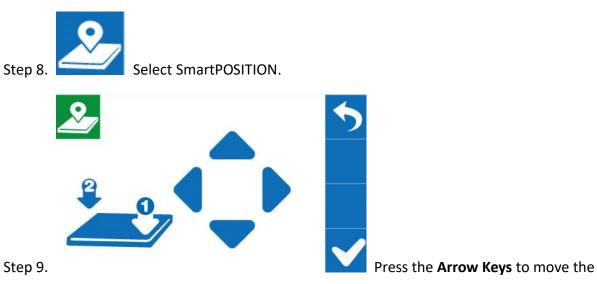
Step 6. Select LOAD MADIA, and then adjust the height of platen of JF-240 to proper position.

(Note: the printing side should always be adjusted **BELOW** the print head.)



Step 7. Select AMC to autamatically detect the height between print media and print head.

(Note: It is suggested to apply AMC onto the highest position of the media.)



cartridge to the lower right corner of the print material and then press **Position** 1 icon



; then move cartridge again to the upper left corner of the print material and press



Position 2 icon

Step 10. Send the file from FlexiPRINT GCC Edition RIP software, and printing is complete.



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5.1.4 How To Set IP

Check the IP address of JF-240UV.

Step 1



1. Select MENU on the control panel.

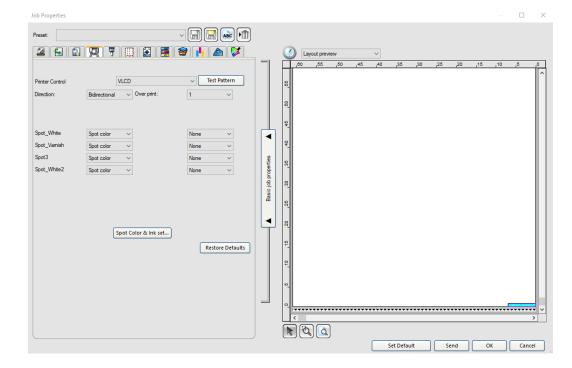


2. Select NETWORK



3. Select IP

Step 2 Go to IP, select IP/Sub Mask/Gateway and adjust the value and select ENTER.



Step 3 Go to Job Properties in FlexiPRINT Select VLCD in Printer Control and click Test Pattern.



Step 4. Start JF-240UV (VLCD) and click Open.

		ID Address	Ded	
Open	Close	IP Address 192 . 168 . 50 .	Port 240 18767	Save
		•		

Step 5. Enter the IP address acquired from the control panel in the "IP Address" column and click Save.

		IP Address	Port	
Open	Close	192 . 168 . 50 . 24		Save

5.1.5 Simplified Output Procedure

Basic Output Message

Please make sure test tuning / printing / quality / LED lamp are ok.

Note: The tuning setting confirmation prior machine printing is very important; please double check to ensure they are correct.

	Print
Check Nozzle	v
Check Bi-directional	v
Check Calibrate	v
Check AMC	v



5.1.6 Reset Back To The Factory Settings

If messed up the parameter settings in the above operation, user can select from the control panel, follow the steps to reset back to the factory default.

Step 1.



1. Select MENU on the control panel.



2. Select RESTORE DEFAULT.

Enter RESTORE DEFAULT, select YES option then press ENTER to complete the restore to factory default settings.

Note: YES to restore the factory default settings.

5.1.7 Check Print Head Condition

If the printing quality deteriorates during the process or daily operation, we recommend printing a print head test chart to make sure the print heads are defect or not. If there is defect in the print heads, recommend cleaning up the print heads.

Step 1 Perform NOZZLE CHECK



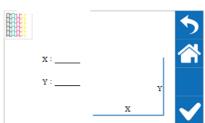
1. Select MENU on control panel



2. Select NOZZLE CHECK



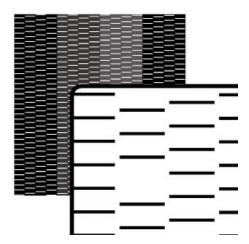
JF-240UV User Manual



3. Set X and Y coordinates of NOZZLE CHECK pattern on the

material and select CONFIRM.

Step 2. JF-240UV will execute Nozzle Check automatically to ensure the print head quality.



(Please refer to Chapter 6.3.3 and Chapter 6.3.4 for detailed instructions)

If there is blocked pixel in print head, recommend to conduct following steps:

Step 3. Conduct normal cleaning (Suggest for first time cleaning). If the problem persisted, please repeat the cleaning process.



1. Select MENU on the control panel.



2. Select CLEANING



3. Select NORMAL and the machine will proceed to NORMAL Cleaning.

Step 4. Conduct POWERFUL cleaning (when NORMAL cleaning does not clean throughout, it is suggested to conduct POWERFUL to clean up).



1. Select MENU on the control panel.



2. Select CLEANING.



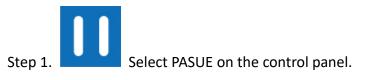
3. Select POWERFUL and the machine will proceed to POWERFUL cleaning.

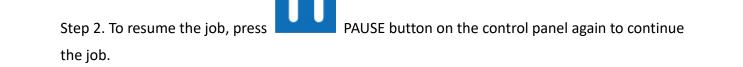
Step 5. Conduct the printing test, to ensure the print head blocked problem has been solved. If the problem continues, please conduct the 2nd cleaning cycle. If the machine has been used for a long time, recommend to clean manually.

5.1.8 How To Pause/Clean/Delete The Job While Printing

When it is printing incorrectly or error occurs, it is suggested to use the PAUSE button on the control panel to stop printing.

Pause while printing:



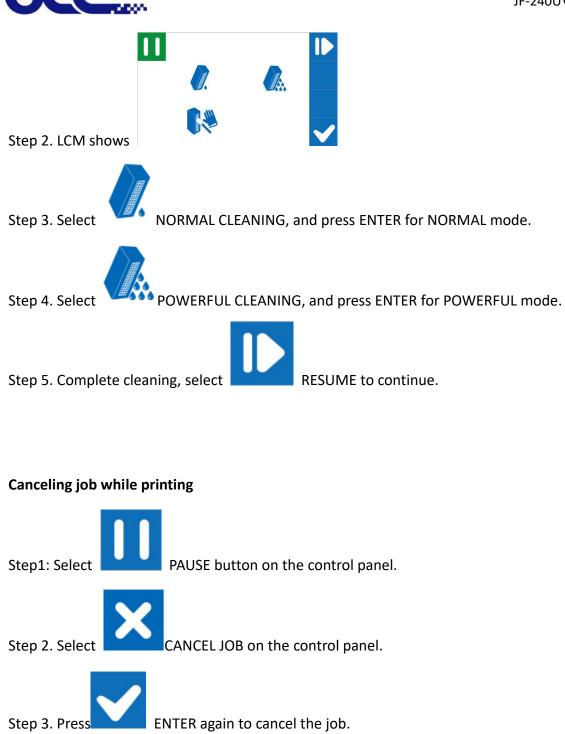


Clean while printing: (when cleaning print heads is required while printing)



PAUSE button on the control panel.

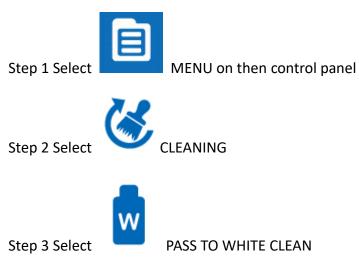






5.1.9 How To Set Pass To White Clean

When PASS TO WHITE CLEAN function is turned on, the purge of white ink will be automatically performed after the defined pass is printed in order to keep the print head cleaning.



Step 4 Complete



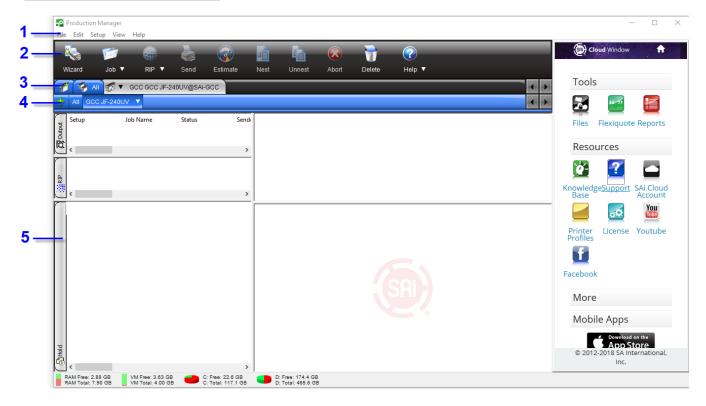
5.2 FlexiPRINT GCC Edition Operation

Recommended System Requirements

Operating System : Windows 7, Windows 8, Windows 10 RAM : 4GB Install Space : 700 MB for base program Working Disk Space : 4 GB Other : Broadband Internet connection or Available port for hardware key and Available port for output device

5.2.1 Basic Elements for FlexiPRINT GCC Edition

Basic elements including:



- 1. Classic Menu
- 2. Toolbar
- 3. Device Section
- 4. Setting Section
- 5. Operation Section



Toolbar

Launch FlexiPRINT GCC Edition program. The toolbar is the fastest way to browse through it. Launch "Toolbar", right click on the blank section on the toolbar, then select the toolbar or content to be displayed.

If you want to view the layout for the main page, please refer to the software basic elements.

	Wizard	Launch "Wizard" dialog box
C	Job	Click on "Job" button to add job. Click on "Job" menu button to check on the quick menu.
۲	RIP	Click on "RIP" button to conduct RIP for the selected job. Click on "RIP" menu button to check on the quick menu.
	Send	Send the selected job to output to the output device, if necessary conducts RIP for it.
	Estimate	Estimates the amount and cost of ink used in a job. Helps calculate the true cost of any print job. Can also prevent running out of ink in the middle of a job.
	Nest	Nests the selected jobs together to use the minimum amount of the output media.
G	Unnest	Unnests the selected set of nested jobs.
•	Abort	Abort the RIP process or output process for the selected document.
T	Delete	Delete selected job or jobs.
•	Help	Click on "Help" button to open HTML help document. Click on "Help" menu button to check on the quick menu.



5.2.2 How To Setup For Printing and Import File

Before starting Setup process, make sure the Ethernet cable is connected to your computer. For the installation of FlexiPRINT GCC Edition software, refer to Chapter 3.2.

Step 1. Right-click on FlexiPRINT GCC Edition Icon and FlexiPRINT EDITOR Icon and select properties.



Step 2. Select Compatibility and "Change settings for all users".

🧟 Production Man	ager 12 Properties	×
Security General	Details Shortcut	Previous Versions Compatibility
If this program isn't v try running the comp	vorking correctly on thi patibility troubleshooter	s version of Windows,
Run compatibility How do I choose co	rtroubleshooter	nually?
Compatibility mode	am in compatibility mod	e for:
Windows 8		\sim
Settings Reduced color 8-bit (256) color	rmode	
Run in 640 x 4	80 screen resolution	
	am as an administrator	
Change hig	h DPI settings	
Change settir	ngs for all users	F
	ОК	Cancel Apply

Step 3. Tick "Run this program as an administrator" and select "OK".



app2.exe Properties

 \times

Compatibility for all users
If you have problems with this program and it worked correctly on an earlier version of Windows, select the compatibility mode that matches that earlier version.
Compatibility mode
Run this program in compatibility mode for:
Windows 8 \checkmark
Settings
Reduced color mode
8-bit (256) color 🗸
Run in 640 x 480 screen resolution
Disable fullscreen optimizations
Run this program as an administrator
Change high DPI settings
OK Cancel Apply

Step 4. The settings is completed and open FlexiPRINT GCC Edition.





Step 5. From menu "Setup→Add Setup" setting to open up "Add Setup" dialog box (Short cut key Ctrl+N).

Add Setu	р				\times
		evice type inters ybrid Devices	○ Cutters	ı	
		evice he brand name of yo GCC he model name of yo	nter?	~	
		GCC JF-240UV		~	
			Back	Next	ancel

Step 6. Select the output device model from the menu, select Hybrid Devices and select JF-240UV.

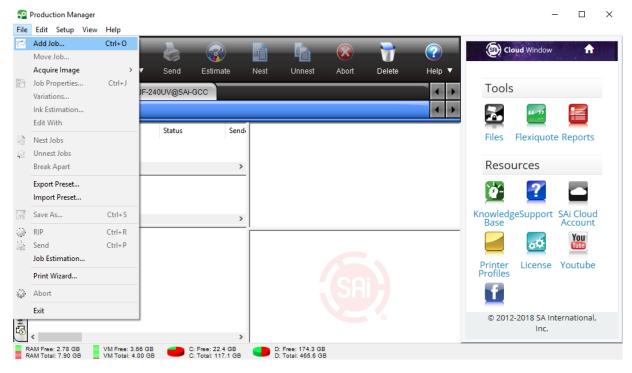
Add Setu	p		\times
	Choose a device type		
	Drintern		
	Printers	Cutters	
	Hybrid Devices		
	Choose a device		
	What is the brand name of your color	printer?	
	GCC	~	
	What is the model name of your GCC	?	
	GCC JF-240UV	~	
		Back Next	Cancel



Step 7. After the new device is added, complete the operation.

Add Setup	\times
What do you want to call your new setup? GCC JF-240UV	
Do you want to print to your GCC JF-240UV from other applications?	
Yes, install the desktop driver	
How is your GCC JF-240UV connected to your computer?	
SAi-GCC V Bro <u>w</u> se	
Sharing Back Finish Cance	

Step 8. Select "Add File→Add Job" (Short Cut Key Ctrl+O).

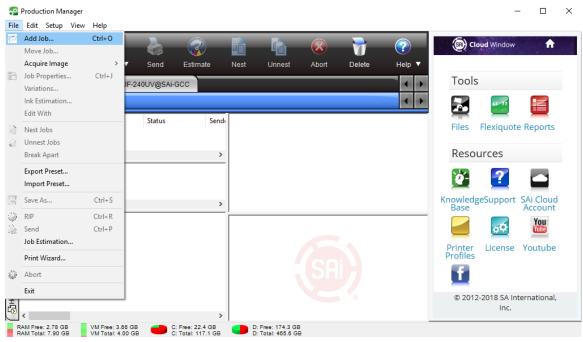




Look in:	🚢 OS (C:)		•	🗢 🗈 💣 📰 🔻		
e.	Name	^		Date modified	Type ^	Add
Recent places	AsusVibeData eCut Support GCC JihSun Onyx11 Program Files Program Files (x86) Temp Users			2015/5/27下午 03 2013/10/7 上午 07 2015/3/18 上午 09 2015/5/7 下午 02:45 2015/11/3 上午 09 2015/5/8 下午 02:16 2015/11/12 上午 1	File fol File fol File fol File fol	Cancel
	Windows GCC-JF File name: Files of type: Preset:	GCC-JF All Readable	erties	2015/10/5 下午 05 2015/11/9 下午 02 文	File fol EPS Fil	C Open job properties

Step 9. At the "Add Job" window select the file name to be printed, and click Add to add the file.

Step 10. The open file operation is complete.





5.2.3 Add Image Setting

Add job (Short cut key Ctrl+O)

The jobs can be transferred to the software via several channels.

Add job through file

- 1. Proceed with following operations:
- a. Select "Add Job" from the "File" drop menu.



b. Click on the job menu button, and select add job from the quick men.





2. Select the file to be added.

Look in:	🚢 OS (C:)		•	🗢 🖻 💣 💌		
C.	Name	^		Date modified	Type ^	Add
Recent places Desktop Libraries Computer Owner Network	AsusVibeData eCut sCupport GCC JihSun Onyx11 Program Files Program Files Frogram Files (x86) Temp Users			2013/10/7 上午 07 2015/5/27 下午 03 2013/10/7 上午 07 2015/3/18 上午 09 2015/5/7 下午 02:45 2015/11/3 上午 09 2015/5/8 下午 02:16 2015/11/12 上午 1 2014/1/20 下午 05 2015/5/5 下午 01:32	File fol File fol File fol File fol File fol File fol File fol File fol File fol File fol	Cancel
	Windows GCC-JF File name: Files of type: Preset:	GCC-JF All Readable Use Default Job Pro	perties	2015/10/5 下午 05 2015/11/9 下午 02 	File fol EPS Fil >	C Open job properties

- 3. Select the options required:
- a. Select "Preview" to view the thumbnail for the selected file.

FlexiPRINIT
Preview Copy to job folder Open job properties

b. Select "Copy to job folder" to copy the file to local working folder.

* If job is stored in removable disk or network drive, you need to copy it to the local working folder, to continue operation when the storage device is removed or network is disconnected.

FlexiPRINIT
Preview Copy to job folder Open job properties



c. Select "Open job properties" to automatically launch "job properties" dialog box once the job is added to the "retention queue". \circ

FlexiPRINIT
✓ Preview
 Copy to job folder
🗹 Open job properties

4. From the settings list, select the settings that you want to apply to print the file.

5. From the preset list, select the preset settings that you want to apply to the job.

6. Click on the save, and name it as frequently used media parameters.

Job Properties

Preset FlexiPRINT		
4 5 6 7 8 6] 🛒 🗐	
Save Preset		×
Settings from each of the selected tabs will	be saved with	n this preset.
🔽 💋 Layout tab	☑ 🔄	Workflow tab
🗹 👔 Color management tab	☑ 📳	Printer options tab
🗹 🛒 Color adjustment tab		Labels and marks tab
🖂 嶜 Separation tab	🗆 🔯	Object color control tab
🔲 🛄 Tile tab		Finishertab
🔲 🐺 Cut tab		Step and repeat tab
Se	elect All	OK Cancel



Select the preset options you want to save.



Save the default Layout tab value.

Save the default Color management tab value.

- Save the default **Color adjustment tab value**.

Save the default Separation tab value.

ł

Save the default **Tile tab value**.

Save the default **Cut tab value.**

Save the default Workflow tab value.

Save the default **Printer options tab value.**

- Save the default Labels and marks tab value.

Save the default **Object color control tab value.**



Save the default **Finisher tab value**.



Save the default Step and repeat tab value.

7. Completion.

Selecting Setups

To select job, please click in the job list to select it.

Use standard Windows operation, combine CTRL and SHIFT key to select multiple jobs :

- Hold the CTRL key to select multiple independent jobs.
- Hold the SHIFT key to select the first job and the last job to select a range of jobs. •

To select all jobs, please click the select all in the Edit menu.



Deleting Setups

To delete jobs, please execute the following steps :

- Select the Delete or Backspace key in the keyboard.
- Select the job, and select the delete from the Edit menu.
- Select the job, and click the delete button in the toolbar.
- Right click on the job, and select the delete from the pop up menu.

5.2.4 Editor

Layout Tab

The Layout tab controls how the job is positioned on the output media, what size it is and the layout of the output.

Job Properties

Preset	
a s a p a s s s s s s s s s s s s s s s	Media Size
Media size	adjustment
24.000 x 20.000in	area
← 24.000in ÷ 1 20.000in ÷	
0.000in 🖨 🗂 0.000in	Media Sizing
0.000in 🖨 🖬 0.000in	
Dual roll printing Edit	
Job size	
9.458in	Image size
100.000%	setting area
🏛 🗌 Fit to media 📫 🗹 Proportional	
Total size: 9.458in x 2.233in	Position setting
Position	-
□+ 0.000in 🜩 🖵 0.000in 🗣	
Copies	
1 🗘 0.100in	Copies
Page range: Page nesting	
PDF Image setting Us for rotate and mirror	



- Media SizeThe size of the media loaded into your output device. Select from one of the preset
sizes, or specify unique dimensions below.
- The width and height of the media.
- The margins of the printable area.

Media sizing: When you specify a set of custom dimensions, it is automatically added to the list of preset sizes.

- Job Size Editing these options allows you change the output size and orientation of the page.
- 🖽 🚺 The width and height of the job.
- The width and height of the job as a percentage of the original.
- **Fit to Media** Scales the job proportionally so that it is as large as possible while still fitting within the printable area of the output media.
- **Proportional** Increases or decreases width and height together to keep the original proportions intact.

Position Changes the position of the job on the media.

The distance between the job and the right and bottom margins of the

printable area.

Places the job at the specified distances from the lower and right edges of

the printable area of the output media.

- Centers the job along the width of the printable area.
 - Centers the job in the middle of the printable area. Only available for sheet

material.

Places the job at the specified distances from the lower and left edges of

the printable area of the output media.

The number of copies to be output.





The amount of space between the various tiles, copies and/or nested jobs that are output as part of the job.



Page Range Specifies the range of pages that are output for a multi-page job. Format is **x-y**. Also accepts "," to put in multiple ranges.

- Ex: 5 Prints page 5.
 - 2-5 Prints pages 2, 3, 4 and 5.
 - 3, 5-10 Prints pages 3, 5, 6, 7, 8, 9 and 10.

Page Nesting Check to automatically nest pages, tiles and separations of the job.

Flips the selected image on the vertical axis, so that the image is mirrored when printed. Rotates image on the media in 90-degree increments. Click the button until you achieve the desired orientation. You can also rotate a job in 90° increments by selecting it in the Preview Area and clicking its center rotation handle.

Workflow Tab

The Workflow tab displays settings related to the time and order that the job is processed in.

Job Properties		
Preset:	- 🔲 🔛 🜬 ÞÍ	
2 🕤 🕻		
Job name:	ADA_ARC -02 0.eps	
Path:	C:\Users\jim.you\Desktop\	
Setup:	GCC JF-240UV	
After output:	Delete ~	
Priority:	Medium ~	
Repeat job	Send job 1 🜲 times	Basic job properties
Send after:	上午 12:00:00 🜲	Bas
	~ ~	



After output	Sets what to do with the job after output.				
	Delete	Removes jobs from the queue after output.			
	Hold	Places jobs in the Hold Queue after output or at the bottom of the			
		queue.			
Send	Sets what par	rt of a combination print and contour job will be output.			
	Print only	Only the printed part of the job will be output.			
Repeat Job	Enter the number of times you would like the software to automatically re-send t job. * This feature saves you from having to manually send the job each time you wa				
	to output i	t.			

Color Management Tab

The Color Management tab displays the settings related to the printing device. The layout of this tab may differ depending on the output device.

Job Properties

Preset: [Use Defa	ault Job Properties]	
2] 🖫 🌐 🛃 🚍 🗣 🚹 🛆 💙	
Color correction		
Use color corre	ection ~	
Output profile:	UV-R High Density Mode 1440x1440 .icc $$	
Media:	UV-R 🗸	
Resolution:	High Density Mode 1440x1440 V DPI	
Color mode:	CMYK V Choke	
Dither:	Enhanced Stochastic 2 V	
Simulation:	Advanced None	Basic job properties
Use color ma	pping	
Ignore overpr	int Anti-aliasing	\square
Variable dot profi	ile: V	



Color Correct	rection Select the desired type of color correction.					
		color correction	Activates the color correction settings from the			
	036 (selected ICC Profile			
	Use	only linearization	Activates the linearization settings only from the			
			selected ICC Profile.			
	No d	color correction	The software uses a generic CMYK profile, instead of a profile generated from actual color measurements of output from the device. Orange and green inks will not be used			
Output profil	e Selec	t a profile from the	e list or select Add to add an ICC profile.			
Media	Selec	ct the media type th	ne output is printed on.			
Resolution	Sele	t the output resolution. The setting may differ according to different				
	outp	output device used.				
	1. H	igh Speed Mode: 72				
		uality Mode: 720 x				
3. High Density Moc						
		_	gs: The higher the value is the better the quality is, but			
	the	longer the outputti	ng time will be.			
Color Mode	Select the	color mode that m	atches the inks set in the printer.			
	СМҮК	The image prints inks.	using a combination of cyan, magenta, yellow and black			
Dither	Select the	dithering for the o	utput.			
Dither Type is the pattern in which the individual dots that make an i applied to the media. Each dither type has advantages in terms of quas speed. The default dither type is usually the best setting for your mac			ither type has advantages in terms of quality and RIP			
-			ithering options to optimize your output. Usually, off, with KF Diffusion offering the highest quality and offering the fastest processing times.			
	The availa	ble patterns (in des	cending order of quality) are:			
	1. SO Dif	fusion				
	2.Error D	Diffusion				
			68			



3.Error Diffusion2

- 4.FMXPress
- **5.KF Diffusion**
- 6.Random Diffusion
- 7.LX Diffusion
- 8.Angle Screen

Description : 1. SO Diffusion

SO Diffusion is the default diffusion method for all newly created profiles. It eliminates banding and produces the smoothest gradients and most vibrant and accurate output of any other diffusion method. SpotON RIP speeds are slightly slower than FMXpress, but yield higher quality output.

2.Error Diffusion

Produces high-quality images. The enhanced image quality requires intensive processing (3-4 times more than FMXPress), and the time it takes to RIP a file using this method is the second longest of the available options.

- 3.Error Diffusion2
- 4.FMXPress

The default diffusion method. It's the fastest in terms of RIP time and is suitable for most prints.

5.KF Diffusion

An enhanced version of the error diffusion method. While it takes longer to RIP (5-6 times more than FMXPress), it provides the highest detail and contrast for most inkjet printers.

6.Random Diffusion

Provides a balance between image quality and RIP time. It takes 2-3 times longer than FMXPress.

7.LX Diffusion

A faster option, as far as RIP times are concerned. It is best used for large prints that are viewed from a considerable distance.

8. Angle Screen

Designed for use with thermal printers to produce vibrant, saturated colors. This is also produces screen print positives. Click **Edit** to set advanced options.

```
Gradient Smoothness Select Normal, Enhanced or Super. The higher settings cause the software to render gradients using more elaborate algorithms that produce smoother dithering.
```



Use color mappingCheck to print spot colors based on settings in global and custom color
mapping. Click Color Mapping to set custom color mapping options.Ignore overprintIgnores any overprint settings that may exist in jobs it outputs.

Printer Options tab

The Printer Options tab displays driver settings related to the selected output device. Every output device supports different driver options.

Job Properties		
Preset: [Use Default	Job Properties]	
Printer Control Direction:	VLCD Bidirectional ~ Over print:	V Test Pattern
Spot_White Spot_Vamish Spot3 Spot_White2	Spot color ~ Spot color ~ Spot color ~ Spot color ~	None None
	Spot Color & Ink set	Restore Defaults

Printer ControlPrint out the test pattern for VLCD,Nozzle Check, Head Angle, Color Offset,
BiDirectional Offset, Band Offset, AAS Offset

DirectionSelect the type of print direction you want your output device to use.UnidirectionalThe print head prints in one direction to ensure precise



alignment.

Bidirectional The print head prints in both directions to increase the speed of printing while sacrificing precise alignment.

Tiling and Cropping Jobs

The Tiling and Cropping Jobs shows the settings that related to output device. The setting options may differ according to different output device.

Job Properties	
Preset: [Use Default Job Properties]	
2 5 B P B 5 5 9 I A V	_
Panel size	
6 0.000cm	
Selected tile	
1 • 6.897cm •	<u> </u>
✓ Print	
All tiles	es
□ 1	ropert
□ 1 + 2.540cm +	Basic job properties
0.500cm Automatic tile flip	Basi
	Ŷ
Print Tilemap	
Print memap	

The tiling feature of the software allows you to split a print job into a number of smaller tiles that are then output separately.

When you rotate or resize a job, all tiling is removed. If the job is larger than the output media after it rotates, it will automatically be retiled.

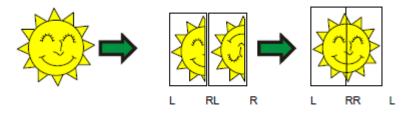
* If a job is larger than the output media, it automatically tiles into pieces small enough to output.



- Panel sizeThe panel splits the job into tiles and is output by the software. If the panel reduces
in size so that it does not cover the entire job, only the parts covered by the panel
are output.
 - Shows the width and height of the panel. To adjust, enter a number or use the spinner controls.
 - The size of the margin. The margin is the part of the panel that extends outside of the boundaries of the job.
- Selected tile Selects which tile's width and height display in the fields below.
 - Selects a tile to edit. The selected tile highlights in the preview pane.
 - Shows the width and height of the selected tile. To adjust, enter a number or use the arrows.
- PrintCheck to output the selected tile with the rest of the job.Clear to prevent output by marking the tile with a mesh overlay in the preview pane
- All tilesThese settings apply to all tiles and help you quickly set up automatic tiles of equal size.Image: Selecting this option divides the job vertically into the number of columns
 - specified. Each column is of equal width.
 - Selecting this option divides the job into the number of rows specified. Each row is of equal height.
 - ↔ ‡
- Enter the values for the width and height of the tiles here. All tiles change to the specified size.
 - Set the amount of overlap between tiles. Enter a negative number to create an offset between tiles.

Reset Restores the default settings.

Automatic tile flip Check to rotate every other printed tile 180° so that adjacent vertical edges always print with the same side of the print head. This helps them match up cleanly.





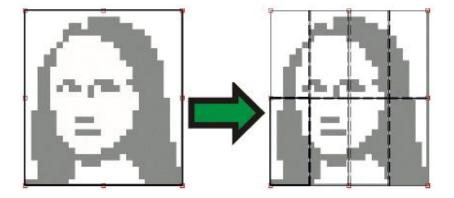
Dividing a Job into Uniform Rows and Columns of Tiles

1. Check the 📴 or 🗄 fields to tile the job vertically or horizontally into evenly divided columns or rows

or rows

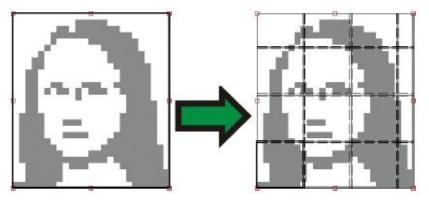
- 2. Set the 12 fields to the desired width for the tiles.
- 3. Set the \square fields to the desired height for the tiles.

4. Set the amount of overlap between the tiles in the 🛅 field



Dividing a Job into Uniform Tiles of a Specified Size

- 1. Check the 🛃 and 😫 fields to set all tiles in the job to be of the specified size.
- 2. Set the 🖽 and 💷 fields to the width and height desired for the tiles.
- 3. Set the amount of overlap between the tiles in the I field.



* If the specified tiles do not cover the job evenly, the tiles at the top and right edges are made small enough to fit in the gap.



Selecting a Tile

To select a tile, either click the tile in the preview pane, or select the tile using the 😬 field in the **Selected tile** section of the Tile tab

Editing Tiles

To edit the size of the **selected** tile, change the values in the Ħ and 😐 fields.

You can also resize tiles by dragging their edges in the Preview Pane.

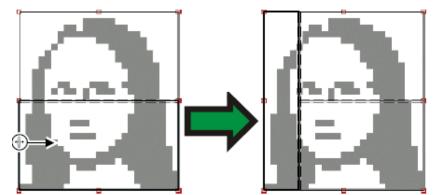
° ©-→		

Click and drag to resize.

If any of the All Tiles checkboxes are checked, the	++	and	\$	fields may	y be disabled. In this
--	----	-----	----	------------	------------------------

case, the fields have been overridden in order to keep all tiles uniform. The tiles will not be editable using the Preview Pane either.

If you drag the edges of the panel over so that part of the job is exposed, a new tile will be created to cover the exposed area of the job. The exception to this is if you resize the panel using the cropping handles.



Click and drag the edge of the panel to add another tile.



Labels and Marks Tab

Job Properties

You may choose to print crop marks and information about the job along with any notes that you enter.

Image: Color: Black ✓ Witth: 1.270cm ■	_
1 270	
Width: 1.270cm	
Print labels	
Position: Top V 🗛 12 🌲 points	
Font: NimbusSanL-Regu 🗸 Add	
 ✓ Printer name ☐ Job name ☐ Resolution ☐ Job size ☐ ICC output profile ☐ Dither type ☐ Tile number ☐ Starting time of RIP ○ Overlap ○ Page number ○ Notes: ○ Number of copies 	Basic job properties
Print marks None Print negative	
☐ Tile overlap lines ☑ On both tiles	
Print color bands Top Right Left Bottom	

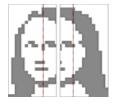
Color Select the ink that is used to print labels and marks.

Width Sets the width of the labels.

Print MarksAdds crop marks or color block on the corner of print job to define where the
page should be trimmed or the job property.

Tile overlap lines Lines on tiles print to indicate where the edge of the overlap is. Use these to align the tiles.

If you check On both tiles, the overlap lines appear on both tiles. If not, the overlap line only appears on the second tile.



Print color bands: check this item allows you to print the color bar on the selected image.



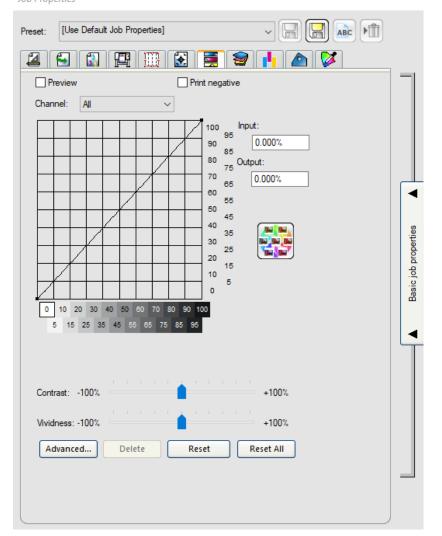
🗌 Print color	r bands		
🥅 Тор	🔲 Right	🔲 Left	🔲 Bottom

Color Adjustment Tab

Note: The adjustment value of brightness is not 0, hence, the value has been set to 0 as default

The Color Adjustment tab provides some basic tools to manually adjust the output color. Each color channel is listed separately as a linearization curve that determines what percentage of

coverage is used (output) for a specified percentage in the original image (input).



Preview Shows the changes in your color settings reflected in the preview pane.

Channel Select the color channel you want to edit.

Output The value for the point that is selected on the linearization curve.

- Click on the curve to select a different point to edit. You can also select a point by clicking on the input axis label.
- To change the value at a given point on the curve, edit the value in the **Output** field, or click and drag the point up or down.



Contrast Adjusts the amount of contrast in the image.

This setting is only available when **All** color channels are selected.

Vividness Adjusts the vividness of the image. Higher settings boost color saturation and brightness at the expense of color fidelity and detail. Lower settings decrease color saturation and brightness, but increase contrast.

This setting is only available when **All** color channels are selected. Also, you must have an ICC profile selected in the Color Management tab.



Click the Variations button to open the Variations dialog. See Working with Variations

Separations Tab

The Separations tab contains a number of options related to printing color separations.

Job Pr	operties			
Preset]
	Print as separat Print separation Channel Cyan Magenta			
	Yellow Black Spot_White Spot_White2	Yellow Black Spot_White Spot_White2		Basic job properties
			Edit	Basic jol
			Reset	

Print as separations Check to print each color plane separately.





To print separations for certain colors only, clear the checkboxes for the colors you do not want to print.

Print separations in colorMakes each process color separation print in the appropriate color of
ink. If you do not select this option, all process color separations will
print in black.

* Separations for spot colors will always print in black.

Editing Color Channel Details Select Channel Details to edit the output setting for each color channel.

* If the **Print as Separations** box is checked, but **Print separations in color** is not checked, you can select how the separations for each color channel are output by selecting the desired color channel and clicking **Edit**.

Channel Details	
Channel: Light Cyan	
Print as	
Light Cyan	
	Cancel

Setting the Preview Pane View

"Preview Pane View" only shows the basic settings.

To set the "Preview Pane View", please single-click the "Preview Pane View" button in the window.

Basic settings are in the left hand side of the window whereas a preview window on the right hand side shows the printing quality of output materials.



Allows job selection or reposition in the preview window.



Doubles the size of the object. Single click points will become the view center.

• Pressing Ctrl and single-clicking this tool will diminish the object by half.



- Single click points will become the view center.
- Single click and drag any sections you would like to enlarge.



Scale the image to fit the view window.

Set default preview pane

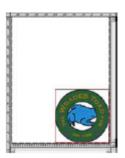
Select one of the three available views from the list at the top of the preview pane.

Page preview



Display each page of the job scaled to fill the preview area. If there is more than one page in the job, a list of the page numbers will appear above the preview, allowing you to select the page to display. * If you are using FlexiPRINT, only the first page is displayed in Page Preview. ** This option will be selected automatically when the **Workflow**, **Color Management**, **Printer Options** or **Color Adjustment** tab is selected

Layout preview



Display the job as it will appear on the output media. The preview is scaled so that the output media fills the preview area.

* This option will be selected automatically when the **Layout**, **Labels** or **Separations** tab is selected.

Tiling Preview



Display the job broken up into tiles to show how it will look when output.

* This option will be selected automatically when the **Tiling** tab is selected.



5.2.5 External Software Printing Setups

Adobe Illustrator Windows

Color printing

- 1. Select "Document Setup" from the Adobe Illustrator "File" pull down menu :
 - a. Select "Artboard" from the pull down menu:
 - i. Select a standard sheet size from the Size field.
 - ii. To use customized sheet size:
 - (1) Select "Custom" from the Size field.
 - (2) Select the required "Units".
 - (3) Enter the "Width" and the "Length" for the customized sheet size.
 - * To avoid from truncating image, please enter the accurate media size.
 - (4) Click on OK.
- 2. Select "Print" from the "File" menu.
 - a. Set the Name settings to the network printing queue corresponding to the required output device.
 - b. Set the Copies as the required duplication.
 - c. Click on the Properties button.
 - d. Select Layout tab, and click on the Advanced button.
 - i.For the Advanced Options :
 - (1) To print the file automatically, please set the "After Spooling" as "Print".
 - (2) To verify the print mode and profile settings, please set the "After Spooling" as "Hold".
 - (3) To start the RIP but without carry out the printing, please set the "After Spooling" as "RIP".
 - (4) Click on OK.
 - ii. Click on OK.
 - iii. Click on OK to start the printing.



CorelDRAW

- 1. Select "Print Setup" from the "File" menu in CorelDRAW.
 - a. Select printer from the "Name" field.
 - b. Click on the "Properties" button.
 - i. Select sheet size from the "Paper" field, or select "Custom Page" to use user defined sheet size.

* According to the operating system and driver, it could be required to click on the "Advanced" button to select the sheet size.

- ii. To use customized sheet size:
 - (1) Select "PostScript Custom Page Size" from the Size field.
 - (2) Select the required Units.
 - (3) Enter the Width and the Height for the customized sheet size.
 - (4) Click on OK to leave the Advanced Option dialog box.
- iii. Click on OK to leave the Properties dialog box.
- c. Click on OK to leave the Print Setup dialog box.
- 2. Select "Print" from the File menu.
 - a. Set the Name setting to the network printing queue for the required output device.
 - b. For the General tab :
 - i. Set the "Print Range" settings as to the page range to be printed.
 - ii. Set the "Number of copies" settings to the duplication to be printed.
 - c. On the PostScript tab :
 - i. Select PostScript3 compatible.
 - d. On the Miscellaneous tab :
 - i. Select one of the following methods to output the bitmap as CMYK: uncheck the "Output Bitmaps in RGB". Set the "Output Color Bitmaps as" settings as CMYK.

* According to the actual operating system and driver version, the settings might show up in somewhere else.

ii. Ensure uncheck the "Use Color Profile".

* According to the actual operating system and driver version, the settings might name as "Apply ICC profile".

3. Click on the Print button.



Spot Colors Printing

- 1. To assign spot colors to be applied on the output design component:
- 2. Select "Palette Editor" from the Tool menu in CorelDRAW.
 - a. Add spot colors definition:
 - i. Select "User Defined Inks" from color palette drop down list on the top of the dialog box. In CoreIDRAW X3 and X4, it is "Custom Spot Colors".
 - ii. Click on "Add Color".
 - iii. Select "Models" tab, and select the color to be used as the spot color on the screen.* At this moment, no need for entering the name for the color.
 - iv. Click on "Add to Palette".
 - v. Repeat the process for all the other colors to be added as the spot colors.
 - vi. Click on the "Close" button.
 - b. Edit Spot Colors:
 - i. Select the colors which are added to the Palette Editor.
 - * They will use the default name, such as Ink (1).
 - ii. Change the color name in the "Name" field in the "Selected Palette Color".
 * To make it function normally, the name must be mapped to the name in the "Spot Colors List".

5.2.6 JOB Server Settings

JOB Server is a feature to configure a print server that allows several computers sharing the network to send and print documents utilizing the same printer.

1. Add GCC JF-240UV printer driver and tick "Yes, install the desktop driver".

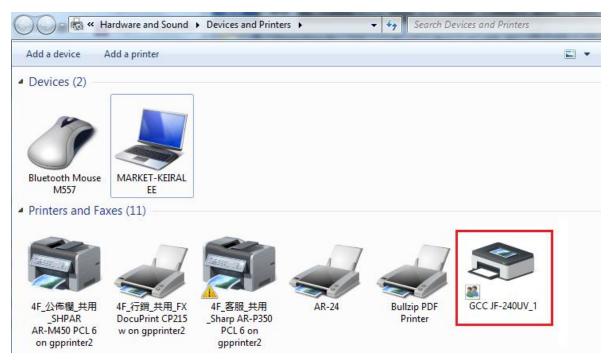
Add Setup	\times
What do you want to call your new setup? GCC JF-240UV_1	
Do you wan <u>t to print to your GCC JF-240UV from o</u> ther applications?	
How is your GCC JF-240UV connected to your computer?	Bro <u>w</u> se



2. Go to Start from the taskbar and select Devices and Printers.

S Skype	
Hangouts	keira.lee
Microsoft Word 2010	Documents
Wedaws Fordays	Pictures
Windows Explorer	Music
iTunes	Computer
	Computer
	Network
	Control Panel
	Devices and Printers
All Programs	Default Programs
Search programs and files	Shut down ►

3. GCC JF-240UV_1 printer server is shared on the intranet.



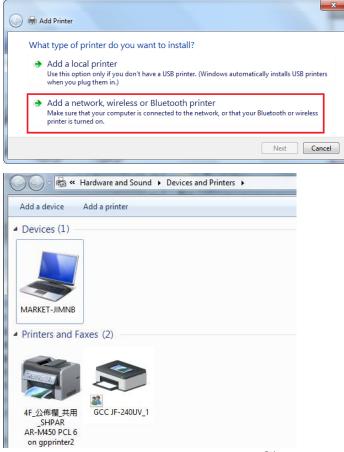


4. Then use anther computer to connect the shared printer.

Go to Start menu from the taskbar and select Devices and Printers and click Add a printer.



5. Select Add a Network, wireless or Bluetooth printer and choose JF-240UV from the printer list. The JF-240UV printer will be added.





6. Open Illustrator, go to Print under File from the menu bar of Illustrator.

File Edit Image Layer	Type Select F
New	Ctrl+N
Open	Ctrl+O
Browse in Bridge	Alt+Ctrl+O
Open As	Alt+Shift+Ctrl+O
Open as Smart Object	
Open Recent	•
Close	Ctrl+W
Close All	Alt+Ctrl+W
Close and Go to Bridge	Shift+Ctrl+W
Save	Ctrl+S
Save As	Shift+Ctrl+S
Check In	
Revert	F12
Export	+
Generate	+
Share on Behance	
File Info	Alt+Shift+Ctrl+I
Print	Ctrl+P
Print One Copy	Alt+Shift+Ctrl+P
Exit	Ctrl+Q

7. Select GCC JF-240UV_1 from the Printer drop down menu and click Setup.

Print			
	Print Preset:	Cuntom	▼
	Printer:	GCC JF-240UV_1	
	PPD:	Default (GCC GCC JF-240UV)	
General	General		
Marks and Bleed Output	Copies:	1 Collate Reverse Order	
Graphics Color Management	Artboards:	• All 🔿 Range:	
Advanced Summary		Ignore Artboards Skip Blank Artboards	
	— Media Size:	Defined by Driver	
		215.9 mm Height: 279.4 mm	
	Orientation:	Auto-Rotate 👔 🗟 🔮 🚭	
	Options		
	Print Layers:	Visible & Printable Layers	
	Placement:	X: 270.3 mm Y: 80 mm	
	Scaling:	Do Not Scale Verlap:	0 mm
I I of 1 ► N	Scale:	W: 100 3 H: 10	0
Document: 450 mm x 450 mm Media: 215.9 mm x 279.4 mm		Tile Range:	
Setup		Done Print	Cancel



8. Click Preferences

🖶 Print	×
General	
Select Printer	
➡ Fax つ GCC JF-240UV_1 ☐ GCC JF-240UV_1 on se-aaronnb2	ाल Jaguar V-61 ि Microsoft F ि Microsoft >
<	>
Status: Ready Location: Comment:	Print to file Preferences Find Printer
Page Range All Selection Current Page Pages: 	Number of copies: 1
	Print Cancel

9. Select Advanced...

Printing Preferences	×
Layout Paper/Quality	
Orientation:	
A Portrait ~	
Page Order:	
Front to Back \checkmark	
Page Format	=
Pages per Sheet 1 ~	
Draw Borders	
	=
	Advanced
	OK Cancel



10. Set After Spooling: Hold under Printer Features and click OK. The JOB Server setting is complete. The print mode and parameter setting can be set in FlexiPRINT.

GCC JF-240UV Advanced Options X
GCC JF-240UV Advanced Document Settings Paper/Output Paper Size: 24.000 x 3600.000in Graphic Graphic ICM Method: ICM Disabled ICM Intent: Pictures Scaling: 100 % TrueType Font: Substitute with Device Font Document Options Advanced Printing Features: Enabled Pages per Sheet Layout: Right then Down PostScript Options After Spooling: Hold ~ Job settings: Default Setting
OK Cancel



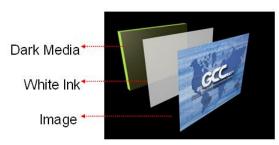
5.3 How To Set The color-white/white-color/color-white-color

printing

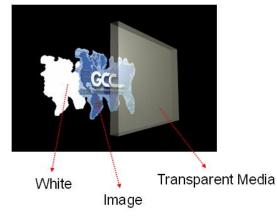
JF-240UV offers four major utilizing white ink applications to meet the demand in the marketplace, as a base, overcoat, spot color and three layer printing. With the White solution, it can be easily used to produce brilliant and rich color output on any transparent and dark media, offering excellent quality images to fulfill all needs of for Promotional item, Specialty, Sign, Labeling and Packaging industries.

Dedicated white ink can fulfill four major applications:

1) White as a Base (white-color)



3) White as an Overcoat (color-white)

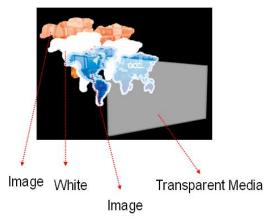


2) White as a Spot Color



*White Ink

4) Three layers printing (Color-white-color)





5.3.1 How To set Illustrator for color-white/white-color/color-white- color printing

1. Open the Illustrator and load the image



 Add a new color swatch (Set the new color name to be Spot_White and the Color Type to be Spot Color)

New Swatch	
Swatch Name: Spot_White	ОК
Color <u>Type</u> : Spot Color _	Cancel
[√] <u>G</u> lobal	
Color Mode: RGB	
R 255	
G 255	
в 255	

3. Fill Objects with Spot White Swatch and overprint.

DOCUMENT INFO	CATTRIBUTES	
Overprint Fill	Overprint Stro	ke



4. Save as EPS format

EPS Options	
Version: Illustrator CS5 EPS Preview Format: TIFF (8-bit Color) Transparent Opaque	OK Cancel
Transparency	
Overprints: Preserve 👻	
Preset: [Medium Resolution] Custom	
Fonts	
Options Include Linked Files	
Include Document Thumbnails	
☑ Include CMYK PostScript in RGB Files	
Compatible Gradient and Gradient Mesh Printing	
✓ Use Printer's Default Screen	
Adobe PostScript?: LanguageLevel 3 👻	
Warnings	
The Document Raster Effects resolution is 72 ppi or less.	
Only fonts with appropriate permission bits will be embedded.	

Tips: Preserve the overprints Select the PostScrip Level 3

- 5. Add the EPS file to FlexiPRINT GCC Edition.
- **6.** Go to Color Management page under FlexiPRINT, and choose ICC under output profile and un-tick "Ignore overprint"

reset:	
4 🕤 🕻	🛱 🖲 🎬 🛃 🚍 🍙 💋
Color correction	
Use color correct	ction ~
Output profile:	UV-R High Density Mode 1440x1440 .icc $$
Media:	UV-R 🗸
Resolution:	High Density Mode 1440x1440 V DPI
Color mode:	CMYK V Choke
Dither:	Enhanced Stochastic 2 V
Smooth grad	ients
	Advanced
Simulation:	None ~
Use color map	pping <u>C</u> olor Mapping
Ignore overpri	nt Anti-aliasing

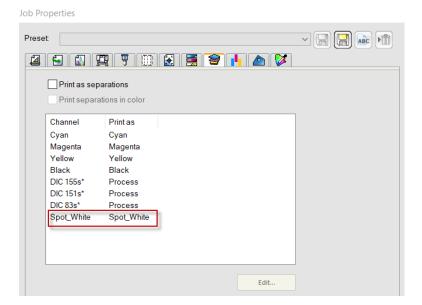


 Go to Printer Options page, select "Spot color" and "Underneath" (white-color) or "Overlay" (color-white) in the drop-down menu in Spot_White section.

b Properties			
reset:		~	
a 🕤 🛐 [🖪 🔢 🛃 😫	<u> </u> 🛆 🔯	
Printer Control	VLCD	~	Test Pattern
Direction:	Unidirectional \lor Ov	ver print: 1	~
Spot_White	Spot color v	Unde	rneath ~
Spot_White Spot_Varnish	Spot color ~ Spot color ~		rneath ~
		Unde	

The definition of the options of Spot_White/Spot_Varnish drop-down menu: Spot: fill the user defined area with white/varnish color Substrate: fill the entire file with white/varnish color Under Color: fill colored area with white/varnish color Fill color: fill the entire file except colored area with white/varnish color

8. Go to Separation page, select Spot_White and press send.



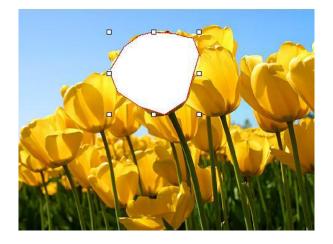
9. Flexi PRINT will open Spot Colors Settings window, tick "White Ink Percentage" or "Multiple Layers" and set white ink volume, and then press Save. The settings is complete.



High quality color layer printing: print color layer by uni-direction Enable normal clean before print color layer White lnk Overprint 1 ✓ Three Layers Printing Braille Sign Print Mode 0.1 ✓ ✓ Multiple layers 0.3 ✓ Media type 1440x1440 : Defaultini ✓	Tips: it is suggested to use White Ink Percentage for the coverage of a large print area while Multiple Layers can be used for raised patterns printing.
Save settings Delete media	

5.3.2 How To Set FlexiPRINT Editor for color-white/white-color/ color-white-color Printing

1. Open the PhotoPRINT Editor and load the image.



2. Create a spot white in Editor

Open the color specs:



Create a New color



Color Specs	×
Color Library Find	
All colors Image: Strategy in the	✓ Use color management Input profile: Color setting default Rendering intent: Color setting default Color info Vendor: Default Category: Enhanced Part #:
Name: Black Mode: RGB 🖵	R: 0 • • G: 0 • • B: 0 • • asure

Set the name to be Spot_White and the mode to be Spot.

color Specs		X
Color Library Find All colors CutContour1 CutContour2 CutContour3 PerfCutContour PerfCutContour Finisher Spot_White Plack 1 CutContour	Vendor: Defa Category: Enha	Color setting default
Name: Spot_White Mode: Spot Mode: Spot New Delete	Comments:	ade: 100.000% <u>*</u>
		OK Cancel

3. Fill Objects with Spot White Swatch and overprint.



Exit Tool	
Zoom	
👦 Undo Release Overprint Path	
¢≌ Redo	
많 Select Within	
Сору	
🖰 Paste	
Duplicate	
Paste Over	
∎ Clear	
Delete Now	
Order +	-
Lock •	
Select •	
Overprint	Overprint
🔊 Select Points	Release Overprint

4. Select Rip and print

-		•
Arrange	Text	Effec
	Ctrl	+N
	Ctrl	+0
	Ctrl	+F4
	Ctr	I+S
C	trl+Shif	t+S
		•
		•
ıp	Ctr	I+B
	Ctrl	+H
	(Ctrl Ctrl Ctrl- Ctrl+Shif

5. Set the send mode is Hold list and send it



Hi-Fi JET FH-740@FILE:	Job	Status
Properties		
4 🛄 🔐 🗮 1	}	
Material		
73.500 x 1800.000in	-	
台 186.690cm 🚊	\$1 4572.000cm	
Dual roll		
🕂 93.345cm 🚊	↔ 93.345cm	* *
¶++₽ 0.000cm		
Send mode: Hold in list		•

 Refer to step 6 ~ step 9 in "How to set FlexiPRINT GCC Editor for color-white/white-color/color-white-color" to complete the settings.

5.3.3 How To Set Varnish Printing

Varnish is a transparent spread on the surfaces of printed matters (images) that forms a thin and even transparent gloss layer after its leveling and UV curing for drying process. Varnish protects printed content, enhances durability and raises the value-added of products as it creates a gloss effect on specific parts of printed matters.

Note: When setting varnish printing, please make sure the pinch rollers of machine above the material are released.

Create a file in **Illustrator:** refer to **"How to set FlexiPRINT GCC Editor for color-white/white-color/color-white-color"** and set the name Spot_Varnish.



New Swatch			
<u>S</u> watch Name	Spot_Varnish		ОК
Color <u>T</u> ype	Spot Color	•	Cancel
	√ <u>G</u> lobal		
Color <u>M</u> ode	RGB	•	
R		255	
G		255	
В		255	

Create a file in FlexiPrint GCC Editor: refer to "How to set FlexiPRINT DX Editor for color-white/white-color/color-white-color" and set the name Spot_Varnish.

Color Library Find All colors All colors CutContour1 CutContour2 CutContour3 CutContour3 PerfCutContour Color info Vendor: Default Color info Vendor: Default Color info Vendor: Default Comments: Spot Mame: Spot Vendor: Spot Spot New Delete Measure 	Color Specs		X
Input profile: CutContour1 CutContour2 CutContour3 PerfCutContour3 PerfCutContour4 Color info Vendor: Default Category: Enhanced Pat #: Comments: Name: Spot Mode: Spot Shade: 100.000%	Color Library Find		
CutContour1 CutContour2 CutContour3 CutContour3 Color info Vendor: Default Category: Enhanced Part #: Comments: Name: Spot_White Mode: Spot	All colors 💌	Use color mana	agement
Image: Spot_White Image: Spot_White Mode: Spot Image: Spot_White Mode: Spot Image: Spot_White	CutContour1	Input profile:	Color setting default
Image: Spot_White Image: Spot_White Mode: Spot_ ✓ Shade: 100.000% .	CutContour2	Rendering intent:	Color setting default 💌
Spot_White Shade: 100.000% -			
	- I chodecontodi		
Spot_White Black 1 Category: Enhanced Part #: Comments: Comments: Shade: 100.000%	- Chidolodoo	Vendor: Defa	ult
Image: Spot_Mhite Part #: Name: Spot_Mhite Mode: Spot Shade: 100.000% ÷		Category: Enha	inced
Name: Spot_White Mode: Spot Shade: 100.000%	- oper_rrine	Part #:	
Name: Spot_White Mode: Spot Shade: 100.000%	T		
Mode: Spot	Name Spot White	Comments:	
Shade: 100.000% ÷			
	Mode: Spot		
		<u>.</u>	100.000%
New Delete Measure		Shi	ade: 100.000% 💽
	New Delete Mea	sure	
OK Cancel			OK Cancel

1) Go to Color Management page under FlexiPRINT GCC, choose ICC under output profile and un-tick "Ignore overprint"

Preset:	
4 🕤 🕻] 🖫 🔻 🏢 🛃 🧮 嶜 🔷 🗭
Color correction	
Use color corre	ction 🗸
Output profile:	UV-R High Density Mode 1440x1440 .icc $$
Media:	UV-R ~
Resolution:	High Density Mode 1440x1440 $$
Color mode:	CMYK V Choke
Dither:	Enhanced Stochastic 2 🗸 Edit
Smooth grad	lients
	<u>A</u> dvanced
Simulation:	None ~
Use color map	oping <u>C</u> olor Mapping
Ignore overpri	int Anti-aliasing



2) Go to Printer Options page, select "Spot_Varnish" and "Overlay" (varnish coating over color) in the drop-down menu in Spot_ Varnish section.

Default Job Properties				\times
Preset:			- I I	
	F T		i 🧐 🛕 (*
Printer Control	VL	_CD	√ Test	Pattern
Direction:	Bidirectional	✓ Over print:	1	~
Spot_White	Spot color	~	None	~
Spot_Varnish	Spot color	~	Overlay	×
Spot3	Spot color	~	None	~
Spot_White2	Spot color	~	None	~

3) Go to Separation page, select Spot_Varnish and send it to Flexi PRINT.

Default	t Job Properties	×	C
Prese	t:		
2		I 🔻 🏢 🛃 🧮 匒 🛆 🗭	
	Print as separatio		
	Channel	Print as	
	Cyan	Cyan	
	Magenta	Magenta	
	Yellow	Yellow	
	Black	Black	
	Spot_White	Spot_White	
	Spot_Varnish	Spot_Vamish	
	Spot3	Spot3	
	Spot_White2	Spot_White2	

- 4) Flexi PRINT will open Spot Colors Settings dialog box
 - 1. Set ink volume in the drop-down menu in Ink Percentage
 - 2. Select the pattern listed in Mark Name column you want to print with varnish and press save to complete.



Enable	ge ∽ s rk		Mark Name Butterfly A Butterfly B Butterfly BR Cow Cross Default Diamond01 Drop Drop2 C C		Reset	
	Save	Delete	Canc	-ol	1	
	Save		Canc	ei		

Five gloss effects

Gloss: The graphic is made to be glossy Semi gloss: The graphic is made to be semi glossy Matte: The graphic is made to have a matte surface Water mark: The graphic is made to be glossy with watermarks Super glossy: The enhanced glossy effect on graphics

Color Mixer:

By adjusting the spray printing control of color inks and varnish inks, JF-240UV is able to apply color varnish to printed matters. This advanced technology is an excellent helper of color customization and fully exhibits the promoting effects and practical value of the combination of varnish and patterns on printed matters (images) protection and enhancement.

5.3.4 How To Create Custom Pattern for Varnish Printing

Users are allowed to use graphic design software to create a preferred pattern and apply it for varnish printing to produce unique effect on the print media. Follow the steps to create a custom pattern for varnish printing. Microsoft Paint is used as an example here.



1. Open Paint, go to File under Properties.

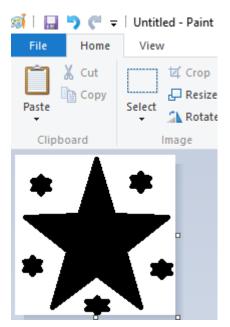
øi I I	📙 ්ට 🧭 🔲 🗢 🛛 Untitl	led - Paint	
	New	Recent pictures 1 LABELExpress-02.jpg	V Outline * Image: Control of the second secon
	<u>O</u> pen	2 mayday.png 2 LE124-100TiF.JPG	Size Color 1 Color 2 Colors Colors
	<u>S</u> ave	4 LE124-100Ti.jpg 5 LE24-80Ti.jpg	5ρο
R	Save <u>a</u> s	6 LE24-60Ti93.jpg 7 LE24-60Ti.jpg	
	Print	8 LE24-30V.JPG ▶ 9 LE15-100TIF.JPG	
	Fro <u>m</u> scanner or camera		
-	Sen <u>d</u> in e-mail		
1	Set as desktop <u>b</u> ackgrou	nd 🕨	
~	Prop <u>e</u> rties		
l 👔	Abou <u>t</u> Paint	Properties (Ctrl+E)	100%
	E <u>x</u> it	Change the properties of the picture.	

2. Select Pixels in Units column and set Width/Length value. The Width/Length value must be a multiple of 8, i.e. 8 x 8 or 160 x 160 pixels

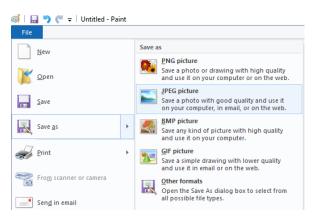
Image Properties			×
File Attributes Last Saved: Size on disk: Resolution: Units O Inches Centimeters Pixels	Not Av Not Av 96 DPI	l white	
Width: 160	Height:	160	Default
		ОК	Cancel

3. Create a desired pattern.





4. Save the file as .tiff format and .jpeg format.



- 5. Save the .tiff file to the location C:\Program Files (x86)\FlexiPRINT 10.5.1 GCC Edition\Program\GCCJF240UV\TestPattern\Varnish\Mark
- 6. Save the .jpeg file to the location C:\Program Files (x86)\FlexiPRINT 10.5.1 GCC Edition\Program\GCCJF240UV\TestPattern\Varnish\Preview
- 7. The custom pattern for varnish printing is complete.



5.3.5 How To Set ADA Sign (Braille Sign) Printing

Multi-layer printing technology is the best tool for ADA sign (Braille sign) applications. The thickness of a layer printing in white is around 0.5mm and can reach a maximum of 0.8mm thick by multi-layer printing. The required thickness of ADA sign (Braille sign) varies according to the regulation in different countries. Apply proper ink percentage to perform multilayer printing to reach the wanted thickness and produce ADA compliant signage.

1. ADA Sign (Braille Sign)

ADA sign (Braille sign) is a system printed as raised dot that can be read with the fingers by visually impaired people. Braille is not a language, but a code by which many languages—such as English, Spanish, Arabic, Chinese, and dozens of others—may be written and read. Braille is used by thousands of people all over the world in their native languages, and provides a means of literacy for all.

Derivation (colored dots) of the 26 letters of the alphabet from the 10 numeric digits (black dots)

•	:	••	•:	•.	:	::	:.	••	.:
а	b	С	d	е	f	g	h	i	j
•	:	••	:		:	::	:-	:	::
k	- 1	m	n	0	р	q	r	S	t
•	:.	••	::	::	•:				
u	v	x	у	Z	w				

Uncontracted (Grade 1) Braille

Punctuation

•	:	••	••	:-	::	:.		.:	•	••
,	;	:		!	()	?"	*	"	,	-

Numerals

•	:	••		•	:.	::	:.	•	.:
1	2	3	4	5	6	7	8	9	0



2. ADA (Braille sign) Dimension

Measurement Range	Minimum in Inches Maximum in Inches
Dot Base Diameter	0.059 (1.5mm) to 0.063 (1.6mm)
Distance between two dots in the same cell	0.090 (2.3mm) to 0.100 (2.5mm)
Distance between corresponding dots in adjacent cells	0.241 (6.1mm) to 0.300 (7.6mm)
Dot height	0.025 (0.6mm) to 0.037 (0.9mm)
Distance between corresponding dots from one cell directly below	0.395 (10.0mm) to 0.400 (10.2mm)

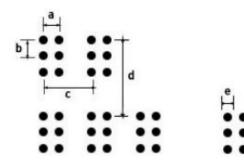
3. Insatll Braille Font for Printing

Step 1 Insert the installation disc and go to :\Program Files (x86)\FlexiPRINT 10.5.1 GCC Edition E14-29 Usb\Program\GCCJF240UV



4. How to Set ADA/Braille Printing

If creating Braille sign in Illustrator or CorelDraw, set the font type to Braille at 24pt to meet the requirements set by the ADA (Americans with Disabilities Act); if using FlexiPRINT EDITOR or other software to create Braille sign, apply the following steps,



	Horiz dot to dot mm	Vertical dot to dot mm	Ce ll to ce ll mm	Line to line mm	Dot base diam mm	Dot height mm
	а	b	с	d	e	
American Library of Congress [1]	2.5	2.5	6.25	10.0		0.5
American National Library for the Blind [2]	2.28	2.28	6.09	10.16		0.5
American Standard Sign [3]	2,3 - 2,5	2,3 - 2,5	6,1 - 7,6	10.0 10.1	1.5 - 1.6	0.6 - 0.9



The required dimension of braille sign differs according to the regulations in different countries. To meet various requirements, users can manually define the height of a cell to create the sign that complies with local regulation.

The formula for the calculation of the height of a cell is $(b \times 2) + e$, where **b** means "Vertical dot to dot (mm)" and **e** means "Dot base diam. (mm)", as shown in the table above.

Take an example of how to calculate the height of a cell based on American Standard Sign: According to "American Standard Sign", the value of b is between 2.3mm to 2.5mm, defines a value of b as 2.5mm; the value of e is between 1.5mm to 1.6mm and defines a value of e as 1.6mm, then applies the values of b and e to the formula to get the result:

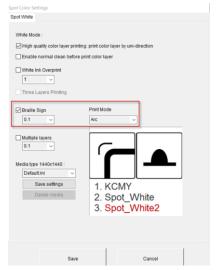
b = 2.5 mm, e = 1.6mm; formula (b x 2) + e = (2.5 x 2) + 1.6 = 6.6 (mm)

Step 1 Set cell height to 6.6mm in DesignCentral window in FlexiPRINT GCC EDITOR.

DesignCentral			
\$+ Q• A ≣			
Ĩ∰ Braille 🔹			
Regular			
IA 0.660cm			
▲ 100.000% ÷			
№4 0.000° ÷ A			
ab 0.000%			
ab 0.000cm			
Icd 0.713cm →			

Step 2 Refer to Chapter 4.7.2 "How to set FlexiPRINT GCC Editor for color-white/white-color/ color-white-color" to complete the settings.

Step 3 Under Spot Colors Settings window, tick "Braille Sign" and select the dot height from the drop down menu and press Save. The setting is complete.





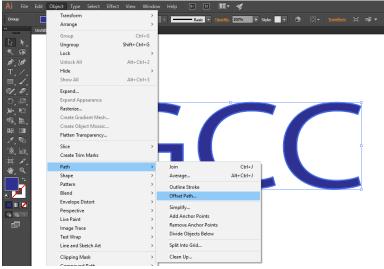
5.3.6 How To Set Arc mode for Dome Shaped Braille Characters/Patterns Printing

Braille is a coded system of tactile raised dots organized into cells consisting of one to six dots, which must have a domed or rounded surface. To produce a smooth and rounded surface on Braille dots or raised patterns, please use ACR mode to achieve the desired effect. The following paragraph illustrates a step by step instruction of how to set the ARC mode and produce dome shaped Braille dots/patterns. The instruction will use Illustrator as an example.

- Add Sopt_White swatch and Spot_White2 swatch; refer to 5.3.1 for the detailed instruction to add new color swatch. The setting is used for vector graphics.
- 2. Select the characters/Patterns and create contour lines. Move the contour lines to a new layer.



3. Step 2 Select Object→Path→Offset Path.....





4. Step 3 Set Offset to -0.4mm and click OK.

Offset Path

Offset:	-0.4 mm	
Joins:	Miter 🔹	
Miter limit:	0	
Preview	ОК	Cancel

5. Apply the Spot_White swatch to the layer which contains the 0.4mm shrink contour lines.





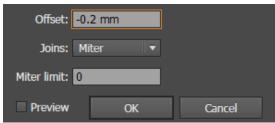
6. Select Windows→Attributes

Ai File	Edit Object Type Select Effect View Window	-	New Window	
Path	▼ ▼ Stroke: ▼ ▼ Untitled-1* @ 164.16% (CMYK/GPU Preview) ×		Arrange Workspace	>
₽.			Browse Add-ons	
* 🗭	P		Extensions	>
Ø, Ø		~	Control	
T. / .			Tools	>
			Actions	
♥, ♥,			Align	Shift+F7
ి.టె.			Appearance	Shift+F6
26 N 🖽			Artboards	
�, ⊫_			Asset Export	
233 □		\checkmark	Attributes	Ctrl+F11
1.5			Brushes	F5

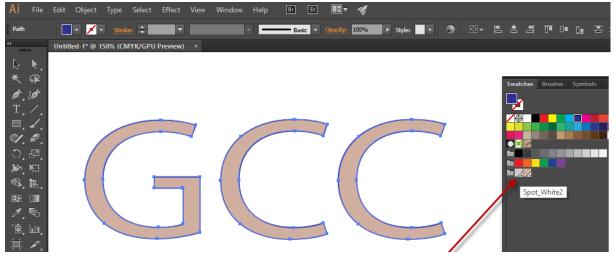
7. Tick Overprint Fill in Attributes dialog box

Attributes		▶ ∥ •≡
✓ Overprint	Fill	
Overprint !		

8. Repeat step 2~4 to create another layer with the contour lines shrink inwards by 0.2mm.



9. Apply the Spot_White2 swatch to the layer which contains the 0.2mm shrink contour lines.





10. Select Windows→Attributes

Ai File Edit Object Type Select Effect View Window Path ✓ ✓ ✓ Stroke: ✓ ✓	-	New Window	
✓ Untitled-1* @ 164.16% (CMYK/GPU Preview) × ↓ ↓		Arrange Workspace Browse Add-ons	>
* @		Extensions	>
Ø. 10	~	Control	
T. /.		Tools	>
		Actions	
		Align	Shift+F7
(), 峄,		Appearance	Shift+F6
26 KE		Artboards	
♠ 1.		Asset Export	
	~	Attributes	Ctrl+F11
1 10		Brushes	F5
і , ш,		Color	F6
		Color Guide	Shift+F3
		Color Themes	

11. Tick Overprint Fill in Attributes dialog box



12. Save the file as EPS

AI Save As	×
\leftarrow \rightarrow \checkmark \uparrow \blacksquare \rightarrow This PC \rightarrow Pictures \rightarrow	✓ Ö Search Pictures
Organize 🔻 New folder	► ▼ ?
 Dropbox OneDrive This PC (Market-Jim)JIM A2 UV Desktop 	LifeFrame Saved Pictures
File name: GCC	~
Save as type: Illustrator EPS (*.EPS)	~
Use Artboards All Range: 1	
∧ Hide Folders	Save Cancel



13. Open FlexiPRINT GCC Edition, select Separation and check if the Spot_White and Spot_White2 channel are created. If not, please check if the two layers with shrink contour lines are created in Illustrator.

Default Job Properties		×
Preset:		
2 🕤 🔛] 🛃 🧮 🗑 🛕 🔯
Print as separa	ations	
Print separatio		
	D : .	
Channel	Print as	
Cyan	Cyan	
Magenta	Magenta	
Yellow	Yellow	
Black	Black	
Spot_White	Spot_White	
Spot_Varnish	Spot_Varnish	_
Spot3	Spot3	
Spot_White2	Spot_White2	

14. Select Printer Options→Spot_White: Underneath, Spot_White2: None, and select Send

fault Job Properties				
Preset:				
4 🕤 🔝	P 7 11		9	
Printer Control	VLCD		~	Test Pattern
Direction:	Data and Large	Ourseriet	4	
Direction.	Bidirectional ~	Over print:	1	~
Spot_White		Over print.	Udemea	
Spot_White	Spot color V	Over print.		
	Spot color V		Udemea	ith ~



15. Open Spot Color Settings dialog box→tick Braille Sign and set the print height→Print Mode :

ARC

Spot Color Settings	
Spot White	
White Mode : High quality color layer printing Enable normal clean before printing White Ink Overprint 1 Three Layers Printing	
Braille Sign	Print Mode Arc
Multiple layers 0.1 Media type 1440x1440 : Default.ini Save settings Delete media	
Delete media	2. Spot_White 3. Spot_White2
Save	Cancel

16. The setting is complete

Note: Printing process and throughput would be affected if using Multiple layers mode. Choose a proper printing mode that is appropriate.

Note : When the outermost layer of the Braille sign is printed in white (using white color but not any other colors as a cover to print on Braille sign), it is suggested to set the Spot_White shrink inward by 0.4mm (Spot_White : -0.2) and set Spot_White as standard (Spot_White2: 0), then select Print Mode: ARC and tick Full coverage white base printing.

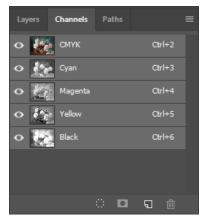


5.3.7 How To Create Raised Printing Effect

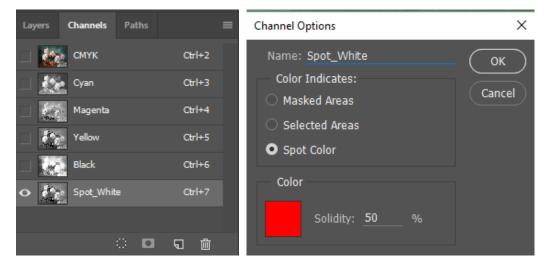
1. Open a bitmap file in Photoshop.



2. Select "Channels" tag in the panel



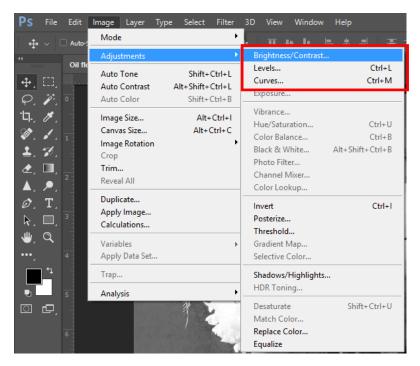
3. Create a new Channel and name it to be "Spot_White", then click OK.





4. Go to Image→Adjustments

Note: The Brightness/Contrast, Levels, Curves value determines the raised printing effect. Adjust the value according to what printing result you want to create.



Brightness/Contrast

Levels

Curves



5. Save the file as Tiff format (MUST tick Spot Colors)

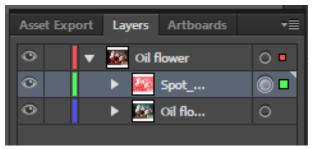
File name:	Oil flower		
ave as type:	TIFF (*.TIF;*.TIFF)		
	Save Options	Save: As a Copy As a Copy Notes Alpha Channels Spot Colors Layers	Color: Use Proof Setup: Working CMYK Coated (SWOP) v2



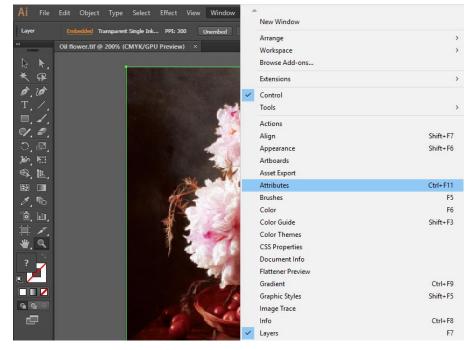
6. Launch Illustrator and open the Tiff format file that just saved.



7. Select "Spot White" layer in Layers tag

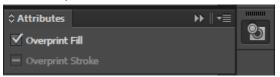


8. Go to Windows->Attributes





9. Tick Overprint Fill



- **10.** Save the file as EPS format.
- **11.** Launch FlexiPRINT and select Separation tag. Make sure "Spot_White" channel is on the channel list, and then click Send.

Print as se	eparations	£ 🚆 😫 📭	
	arations in color		
Channel	Print as		
Cyan	Cyan		
Magenta Yellow	Magenta Yellow		
Black	Black		
Spot_White	Spot_White		

12. Step 12 The process is complete.



5.3.8 How to set UV Lamp Curing mode for bright color printing

Apply "Delay Curing" in UV lamp Curing mode can enhance color brightness, and therefore create vivid color gamut and glossy effect to the printed images.

There are five options under UV lamp curing mode, including Normal Curing (Default), Delay Curing, Delay Curing 2, Delay Curing 3 and Delay Curing 4. The larger the number, the brighter the color can be created under Delay curing mode, i.e. Delay Curing 4 creates greater color brightness than Delay Curing 3; Delay Curing 2 creates greater color brightness than Delay Curing, and so on.

Note : Applying the Delay Curing option will reduce the print sharpness and ink adhesion, please use Delay Curing function according to the printing effect that wants to achieve.

How to set UV Lamp Curing mode?

If your JF-240UV is not equipped with Varnish ink, please apply the following steps.

Step 1 Launch FlexiPRINT GCC Edition and open VLCD

Step 2 Select Open \rightarrow Print Settings \rightarrow UV lamp Curing mode, select "Delay Curing" and click Save.

VLCD (JF-240UV V1.01-25)	—		
Open Close IP Address Port 192 168 50 240 18767 Save			
Job Color Offset Print Settings Job ink use PH Parameters Machine Parameters Rotary Scale Setting F	Roll Scale (Settin <u>c</u> • •	
Color to print : V W K C M Y UV lamp curing mode : UV Power :			
Delay Curing V 100 V			
Enable job repeat function			
Enable static bar			
Save			

If your JF-240UV is equipped with Varnish ink, please apply the following steps.

Step 1 Spot_Varn	ish \rightarrow Under color \cdot	None		
Spot_Vamish	Under color 🔻		None	-

Step 2 UV lamp Curing mode \rightarrow Delay Curing \rightarrow Save

UV lamp curing mode :		UV Pov	UV Power :		
Delay Curing	\sim	100	\sim		

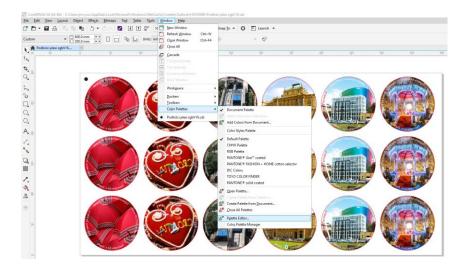


5.3.9 How to set CorelDraw for Spot White

Step 1 Open the file



Step 2 Windows→ Color Palettes→ Palette Editor....



Step 3 Select Add Color

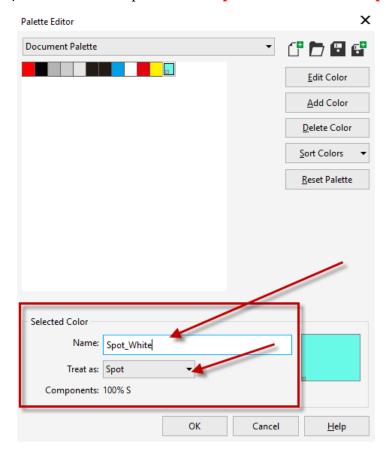
Palette Editor					×
Document Palette		D 9 4		Ϊ.	Edit Color
					Add Color
					Sort Colors 👻
					<u>R</u> eset Palette
Selected Color					
Name: p	Red				
Treat as: F	rocess	•			
Components: R	255 G:0 B:0				
		0	к	Cancel	Help



Step 4 Select any color from the color bar and create a new palette from the Name dropdown menu.

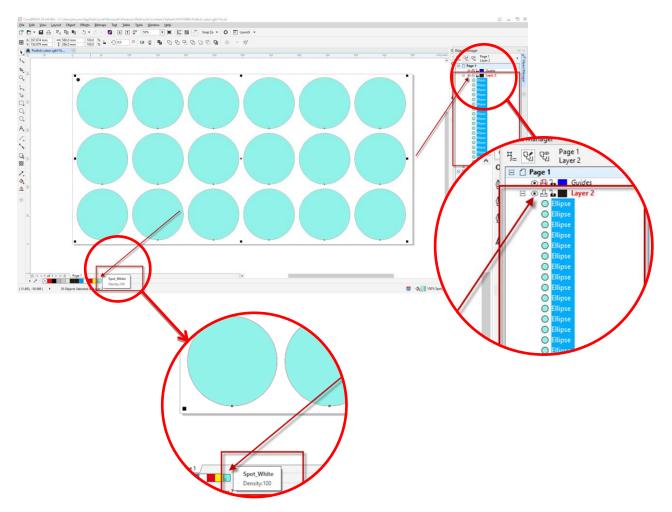
Select Color		x
	Model: RGB Color Viewers: HSB - Hue Based (Default)	RGB ▼ R 105 ↓ G 250 ↓ B 231 ↓
		OK Cancel

Step 5 Name the new palette to be **Spot_White** and select **Spot** from the Treat as. dropdown menu.

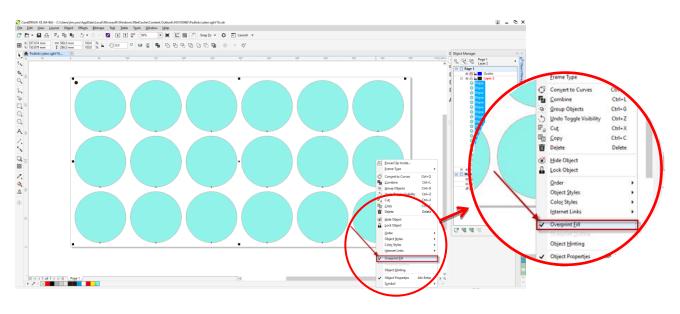




Step 6 Add a layer2 and fill it with Spot_White



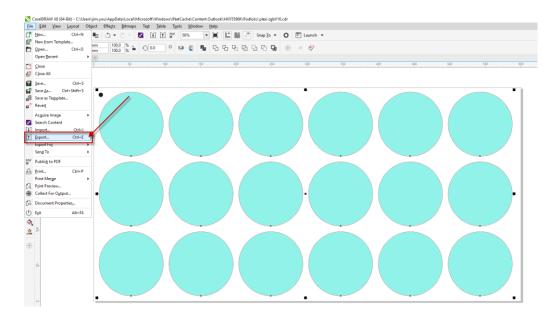
Step 7 Right click on blank space of layer2 and tick Overprint fill



JF-240UV User Manual



Step 8 File→Export....



Step 9 Save the file as .eps format.

🚽 👻 🛧 🏪 > This	s PC > Windows (C:) >		~ Ū	Search Windows (C:)	م
)rganize 🔻 New folder	r				- (
^	Name	Date modified	Туре	Size	
📌 Quick access	SRECYCLE.BIN	2018/4/12 上午 09	File folder		
o Creative Cloud File	CertBackup	2018/10/4 上午 10			
•• •	Documents and Settings	2017/4/1 下午 07:27	File folder		
😴 Dropbox	ErrorLog	2019/3/7 下午 04:59	File folder		
OneDrive	ETAX	2018/5/2 上午 08:54	File folder		
This PC	GCC	2019/1/3 上午 10:02	File folder		
<u> </u>	hp	2018/1/19 上午 04	File folder		
3D Objects	inetpub	2018/5/24 上午 02	File folder		
Desktop	🔥 Intel	2018/10/17下午 0	File folder		
🔮 Documents	JV-240UV	2019/3/7 上午 11:49	File folder		
🕹 Downloads	MSOCache	2018/4/11下午 03	File folder		
🖵 GCCDatabase (g	my documents	2019/3/13 上午 09	File folder		
MKT UV	PerfLogs	2018/4/12 上午 07	File folder		
Music	Program Files	2018/8/4 下午 02:54	File folder		
Office	Program Files (x86)	2019/3/5 下午 02:41	File folder		
-	ProgramData	2019/3/14 上午 08			
Pictures	QueryBOMBylist2	2018/6/20 上午 10			
Videos	Recovery	2018/5/23 上午 10			
Lindows (C:)	SmartIT	2018/5/21 上午 10			
🛖 DATADRIVEO (D:) 🗸	SWSETUP	2018/11/16 上午 0.	File folder		
File name: GCC.ep	DS				
Save as type: EDS - E	ncapsulated PostScript (*.eps;*.dcs)				
Save as type: EPS - E	ncapsulated PostScript (".eps;".dcs)	-			
Selec		not show filter log			

Step 10 The process is completed.



5.4 Tuning And Testing Procedure

Note: When the buzzer sounds, please check the message on control panel to see how to settle the problem.

Note: if there is an emergency situation that you push the emergency stop button to shut off the machine, make sure the problem is eliminated and restart the machine.

5.4.1 Read Factory Settings

Job Properties

Please obey the following steps to read the parameter settings for first-time use.

1. Open FlexiPRINT GCC Edition, select Printer Control→VLCD and click Test Pattern

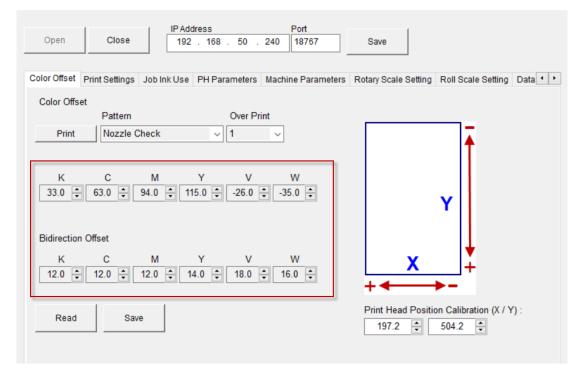
 ob Hoperaes							
Preset					- 8		۱.
2 5 🛛 🖫	111 💽	5) 🚹 🛆 🖗	3			
Printer Control		VLCD		~	Те	st Pattern	
Direction:	Bidirectional	\sim	Over print	1		\sim	

 Activate JF-240UV (VLCD) and click Open, select Parameters backup from machine, then JF-240UV (VLCD) will automatically read the parameter backup saved in the machine, including the parameter of Band Offset, Uni-Bi-Offset-PH Parameters and so on.

Open	Close	IP Add 192	Iress . 168 . 50 .	Port 240 18767	Save				
Color Offset	Print Settings	Job Ink Use	PH Parameters	Machine Parameters	Rotary Scale Setting	Roll Scale Setting	Data • •		
	Write parameter		ie						
	0%								



5.4.2 Introduction of VLCD



VLCD Description

GCC JF-240UV Flatbed (VLCD) Description						
OPEN	Enable JF-240UV calibration online connection					
CLOSE	Disable JF-240UV calibration online connection					
IP ADDRESS	IP address					
SAVE	Save IP address settings					
Color Offset	Configure print direction, unidirectional indicates printing image from right to					
	left, bidirectional indicates image will be printed from right to left, then left to					
	right. This setting is to establish the unidirectional / bidirectional precision.					
Unidirection Offset	Print the unidirectional alignment					
	calibration pattern chart for print head					
	parameter tuning.					
Bidirection Offset	Print the bidirectional alignment					
	calibration pattern chart for print head					
	parameter tuning.					
PH PARAMETERS	Ink jet print head parameter settings					
Channel	K、C、M、Y、V、W ink jet head color name					
Drop/Speed m/s	Ink jet head drop speed adjustment					
Default Voltage	Ink jet head voltage adjustment					



MACHINE PARAMETERS						
Write Parameters to	Send the parameter settings to machine					
machine						
Parameters backup	Retrieve parameters backup from					
from machine	machine					
MB VERSION						
Read	Read M/B version info.:					
	Motion Firmware Version					
	Motion FPGA Version					
	Ink ID Board Version					
	Engine Board Version					

5.4.3 Preliminary Calibration Parameters

Set the printing direction. When Uni-Directional is selected, the image will be printed only from right to the left; when Bi-directional is selected, the image will first printed from right to left, then from left to right. This calibration is primarily used to ensure the uni-directional / bi-directional printing precision.

Uni-Directional Calibration:

1. Start FlexiPRINT GCC Edition, select Color Offset in Printer Control and click Test Pattern.



Preset				~	
	11B 🛃	E	9 🚹 🛕 🔯		
	1	-			
Printer Control		Color (Offset	~	Test Pattern
Direction:	Bidirectional	~	Over print:	1	~

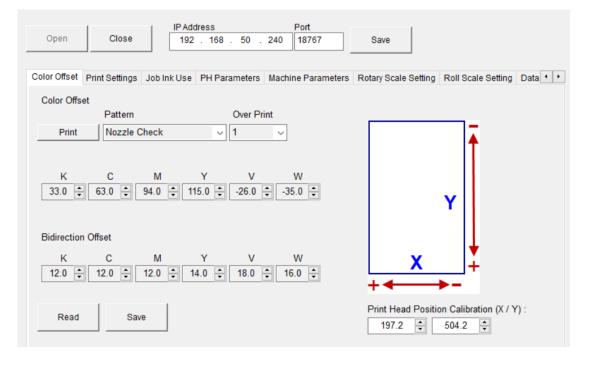
- 2. JF-240UV will automatically start Color Offset Test Pattern
- 3. Select VLCD in Printer Control and press Test Pattern

Job Properties

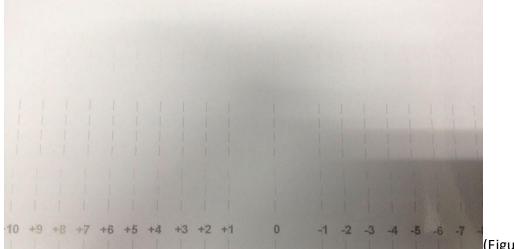
Preset		
4	I 7 🛞 🛃 🗑 📙 🛛	
Printer Control	VLCD	✓ Test Pattern



4. Start VLCD and click Open.



5. Confirm Color Offset and adjust parameters as shown in the figure below.



(Figure 4-62)

Following are horizontal alignment calibration examples (please refer to **Example 1** and **Example 2**):

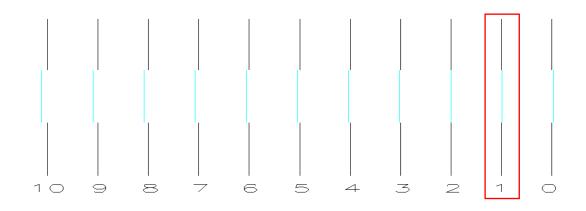
Note: Please read the following information thoroughly prior you proceed to the inkjet head horizontal alignment calibration.

6. Please use K (black) color to calibrate other colors.

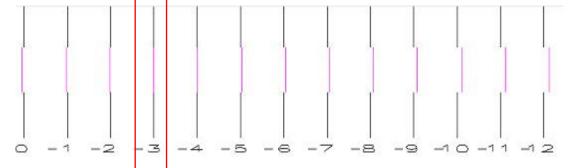


- There are 31 calibration lines on the horizontal calibration pattern chart. Numbers are layout from left to right. Please refer to Figure 4-70, the 16th line (0) is the initial number.
- 8. These numbers will indicate the offset (bias) value for each inkjet head

Example 1: Horizontal alignment calibration for the inkjet head of Cyan color.



Example 2: Horizontal alignment calibration for the inkjet head of Magenta color



- Step 1. Enlarge the Cyan calibration test pattern chart to Example 1. Use a magnify lens to observe that Cyan line and Black line are aligned at number "1" line. Keep a record on the number where two lines are aligned.
- Step 2. Use a magnify lens to observe that Magenta line and the Black line are aligned at number "-3" line (as **Example 2**), please keep a record on the number where two lines are aligned.
- Step 3. Use the same method to observe and record each color line aligned with Black color line.
- Step 4. After record all the numbers, go to the control interface of "Unidirection Offset $\lceil K \land C \land M \land Y \land LC \land LM \land W \land V \rfloor$ " for JF-240UV VCLD software (as shown below) to conduct horizontal fine tuning.





In the Example 1: "1" indicates that the horizontal offset for the color Cyan need to be increased 1. In the Example 2: "-3" stands for that the horizontal offset for the color Magenta need to be decreased 3.

For example:

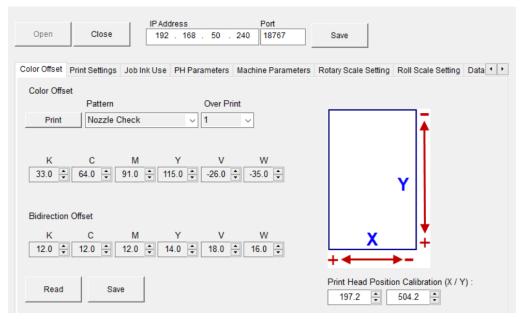
M=94-3=91 (Enter 91 in JF-240UV (VLCD)

C=63+1=64 (Enter 64 in JF-240UV (VLCD)



Step 5. Use the same approach to calibrate other inkjet heads.

Step 6. Use this method to enter the offset values for all the inkjet heads (as shown below), then press Save to update the settings.



Bi-Directional Calibration:

1. Start FlexiPRINT GCC Edition, select Bidirection Offset in Printer Control and click Test Pattern.



Job Properties

Preset	1 11 12 12 12 12 12 12 12 12 12 12 12 12 12 1	
Printer Control	BiDirectional offset	✓ Test Pattern

- 2. JF-240UV will automatically start Bidirection Offset Test Pattern
- 3. Select VLCD in Printer Control and press Test Pattern.

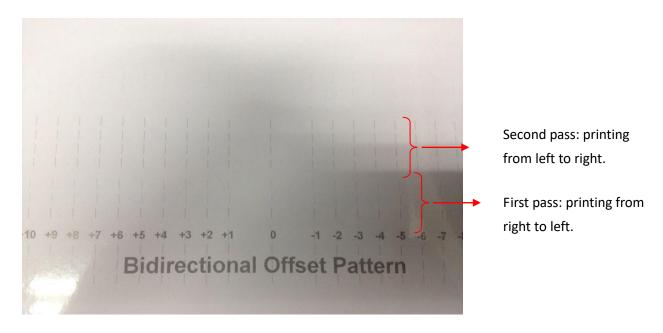
Job Properties		
Preset		
2 🕤 🔝 🛱	7 🔟 🛃 🧮 😫 🖡	
Printer Control	VLCD	✓ Test Pattern
Direction:	Unidirectional \lor Over print	1 ~

4. Start VLCD and click Open.

Color Offset Print Sett Color Offset Patt Print Noz	tern	PH Parameters Over Pri	Machine Parameters	Rotary Scale Setting	Roll Scale Setting	Data • •
Patt		Over Pri				
K C	M 91.0 + 1	~ 1 Y V	w → -35.0 +		Ī	
Bidirection Offset K C 12.0 → 12.0 Read	M	Y V 4.0 ♀ 18.0	W	× + ←		0:

5. Confirm Bidirection Offset and adjust parameters as shown in the figure below.

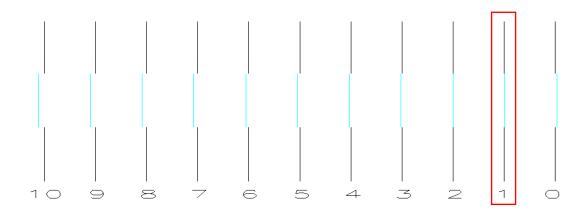




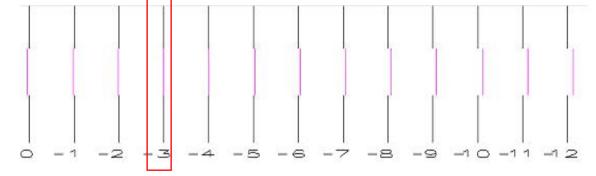
Note : Please read the following information thoroughly prior you proceed the inkjet head bi-directional alignment calibration.

• Offset unit : 1 line = 0.0705mm (1 inch / 360 DPI = 0.0705)

Example 1: Bidirectional alignment calibration for the inkjet head of Cyan color.









observe that Cyan line and Black line are aligned at number "1" line. Keep a record on the number where two lines are aligned.

- Step 2. Use a magnify lens to observe that Magenta line and the Black line are aligned at number "-3" line (as **Example 2**), please keep a record on the number where two lines are aligned.
- Step 3. After record all the offsets for all the colors, go to the control interface of "Bidirection Offset $\[\ \ K \ \ C \ \ M \ \ V \ \ V \ \ '' \$ for JF-240UV VCLD software to conduct bidirectional calibration.

Bidirection Offset						
К	С	М	Y	V	W	
12.0 📮	12.0 ≑	12.0 🗘	14.0 📮	18.0 📮	16.0 韋	

In the Example 1: Cyan line shift 1 line to the left indicates that the bidirectional offset for the color Cyan need to be increased 1. In the Example 2 : Magenta line shift 3 line to the right stands for that the horizontal offset for the color Magenta need to be decreased 3.

For example: M=12-3=9 (Enter 9 in JF-240UV (VLCD)

C=12+1=13 (Enter 13 in JF-240UV (VLCD)



Step 4. Use the same approach to calibrate other inkjet heads.

Step 5. Use this method to enter the offset values for all the inkjet heads, then press Save to update the settings.



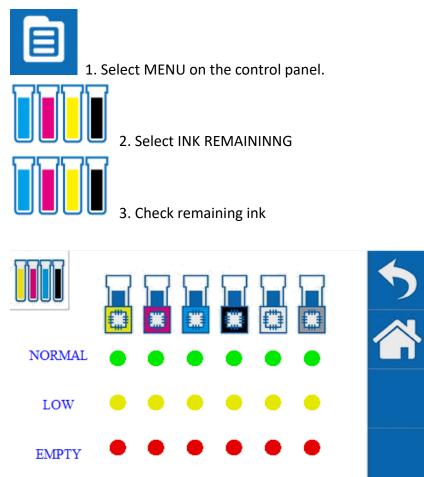
Chapter 6 Maintenance And Basic Service

This chapter provides the basic maintenance information for the JF-240UV flatbed printer (i.e. clean up operations for the flatbed printer). Other than the operations described here, the rest of the service must be carried out by trained maintenance professionals.

To keep the flatbed printer in the best performance and the best printing quality, it is necessary to periodically clean / maintain this equipment with appropriate procedures.

6.1 Check Remaining Ink and Refill Ink

6.1.1 Check Remaining Ink



Description:

*Green light indicates high ink level.

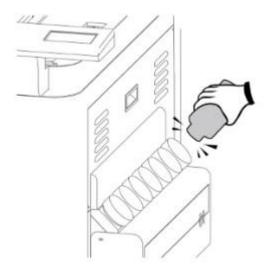
- * Yellow light indicates medium ink level.
- * Red light indicates low ink level, ink should be refilled immediately.



6.1.2 How To Replace Bulk Ink

When running out of ink, control panel will show "Ink run out" to remind users to refill the ink. Please make sure the color of the ink bottle label matches the ink color you want to refill.

It is suggested to horizontally shake the White ink 15 times before filling in the bottle or stir the White ink manually before printing.



Note : Be caution when replace the ink bottle:

- 1) Please install the ink bottle to the position according to the color label.
- 2) Please fill the ink slowly to prevent the ink from overflowing.
- 3) Must be replaced with ink bottle of the same type.
- 4) Do not use the uncertified ink bottle.
- 5) Do not pull out the ink bottle while the equipment is printing.
- 6) Please do not remove the empty ink bottle until a new one is inserted

Warning: Do not store ink, flush cleaning solutions or liquid drained out at any following

locations.

Area might be exposed to flame, to avoid fire hazard.

Area might be exposed to high temperature.

Area exposed to bleach, any oxidant or explosive materials.

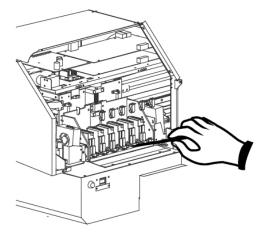
Area might be reached by children to prevent health hazard.



6.2 Daily / Weekly / Monthly Maintenance

6.2.1 Ink Print Head Cleaning

Note: Do not use the printhead cleaner to clean the waste ink area



Required daily cleaning:

Check whether the print head in good condition. It is required to use sponge swabs with Cleaner (26501007G) to clean print head, print head area and wiper everyday.

Note : Switch the ink value off while cleaning, and switch the ink values on after the process is complete.

Print Head Cleaning



1. Select MENU on the control panel



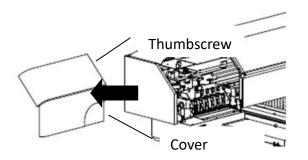
2. Select MANUL CLEANING





- 3. Select ENTER, press PURGE button and wait for 20 seconds, then press
- 4. Remove thumbscrews and open the left cover and close ink valve.





5. Use sponge swabs with cleaner to clean the area underneath the print heads, and wipe residues from back to front.

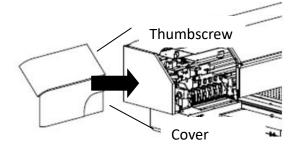
Note: Do not reuse the sponge swabs.

Note: The change of color of sponge swab does not affect its function.





6. Open ink valve, close up the left cover and fix it with thumbscrews, and press



Required weekly maintenance:

Check whether the print head is in good condition. It is required to use sponge swabs with Cleaner (26501007G) to clean print head and print head area every week, and make sure that ink bottle is not empty and dispose waste ink bottle.



6.2.2 How To Turn On/Off POWER SAVE Function



The function of POWER SAVE is to save energy. When the device idles longer than a set period of time, JF-240UV will automatically enter POWER SAVE mode.

Select POWER SAVE on the control panel to activate POWER SAVE and press it again to deactivate it. There are five time interval setting, 15 sec., 30 sec., 1 min., 3 min. and 5 min, user may choose whichever is suitable.

6.2.3 How To Dispose Waste Ink Bottle

When the waste ink bottle is full, control panel will display "Waste ink bottle is full" message. It is recommended that remove the waste ink bottle and dispose the waste ink to a waste ink collecting area.

Dispose the waste ink according to the following steps:



1. Select MENU on control panel

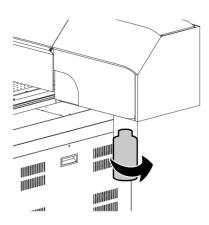


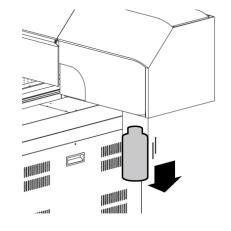
2. Select MAINTENANCE



3. Select REPLACE WASTE INK BOTTLE

4. Remove the waste ink bottle





5. Install the empty waste ink bottle



NOTE:

Waste ink bottle contains hazardous substances. Please DO NOT dispose the waste ink bottle with general garbage or discard it into sewage treatment system.

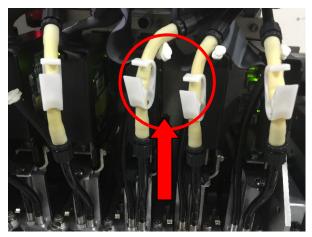
Please follow the local regulations to dispose the waste ink to prevent contaminating the environment.

6.2.4 Cleaning

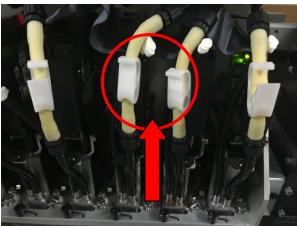
Warning: Do not use gasoline, alcohol, or solvent ... etc. flammable materials, as they are abrasive and hazardous, and could damage the equipment.

Note: Please make sure power and ink valve are turned off and JF-240UV is done the printing job before cleaning process starts.

Press the clip of ink valve to switch the ink valve off.



Ink valve is opened



Ink valve is closed

- **Note:** When the machine is in printing, the moving parts might cause injury or high temperature components might cause burns.
 - While in cleaning up process, please clean up ink residue or printing media on the platform and other area to avoid deposition. Use cloth moistened with diluted mild cleaning solution or water to wipe it out.
- **Note:** it is advised to clean the capping area with cleaning cloths every week





6.3 Print Head Maintenance And Clean Up

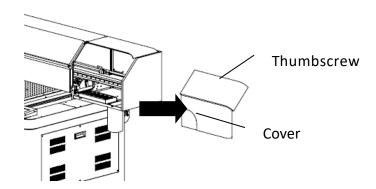
Print head maintenance and clean up are important to ensure machine printing quality. Generally it can be divided into daily maintenance and periodically maintenance. Required daily maintenance: Apply automatic basic cleaning up maintenance. Required weekly maintenance: Apply automatic advanced cleaning up maintenance. Required monthly maintenance: Apply automatic advanced cleaning up maintenance, and wipe the print head with cleaning swabs.

Note: When the machine idle 2~3day and the print head nozzle clog, please click Powerful Clean to flush it (each Powerful Clean process will take 8 min to complete the cycle). Note: When the machine is power-down longer than 7 days, please fill flushing solution into print head and drain the ink out, leaving the flushing solution in print head only.

6.3.1 Maintenance And Clean Up

Step 1 Remove thumbscrews and open up the right cover.

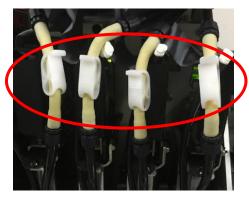




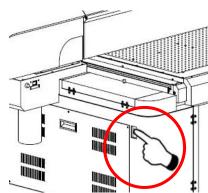
Step 2 Remove the tool carriage cover.



Step3 Press the clip of ink valve to close it and turn off the machine.



Step4 Switch on the ink tube



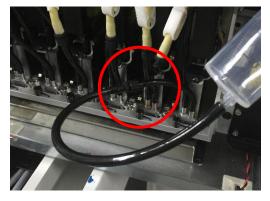




Step5 Take in cleaner (26501007G) in syringe.

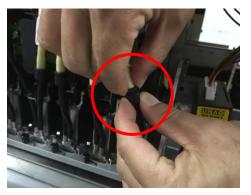


Step6 Inject cleaner (26501007G) into ink tube of print head





Step 7 Switch off the ink tube



Step 8 Close the tool carriage cover.

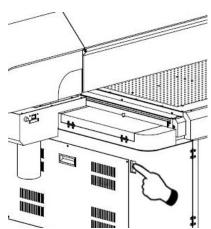


Step 9 Complete

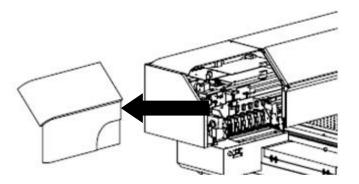
6.3.2 Maintenance And Clean Up For Print Head of White Ink

When the machine is power-down longer than 7 days or print head nozzle of white ink clogged, conduct the following steps before printing. Step 1 Turn on the power.





Step 2 Remove thumbscrews and open up the left cover.



Step 3 Remove the tool carriage cover.



Step 4 Press the clip of ink valve to open it





Step 5



1. Select MENU on the control panel.



2. Select CLEANING



3. Select WHITE CIRCULATION, then JF-240UV starts WHITE CIRCULATION.

Step 6 After WHITE CIRCULATION is done, continue to CLEANING process according to following steps



1. Select MENU on the control panel



2. Select CLEANING



3. Select POWERFUL

Step 7 Close the tool carriage cover.





Step 8 Close left cover and fasten it with thumbscrews.

Step 9 Complete

6.3.3 Automatic Basic Cleaning Up Maintenance

For the daily cleaning up and maintenance, if the print head is clogged, it is recommended to apply basic cleaning up instruction procedure to clean up print head prior the print job.

Step 1 Perform NOZZLE CHECK

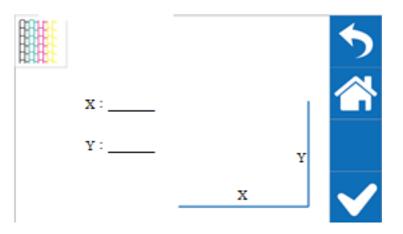


1. Select MENU on the control panel



2. Select NOZZLE CHECK

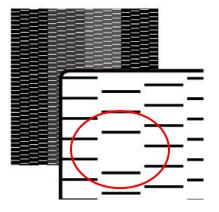
3. Enter X, Y value and press ENTER



Step 2 JF-240UV will print out Nozzle Check test pattern, if the printing quality is similar to the



figure below, please clean it up according to the following steps.



Step 3



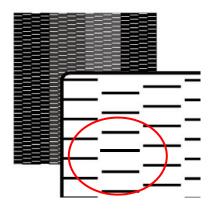
1. Select MENU on the control panel

2. Select CLEANING



3. Select NORMAL, and the machine will carry out automatic basic cleaning up procedure.

Step 4 Repeat step 1~2 to confirm whether the basic cleaning can meet the required printing quality. If blocked area are filled, then the basic clean up is completed.



6.3.4 Automatic Advanced Cleaning Up Maintenance

For the periodically cleaning up and maintenance, if there is serious blockage in the print head, it is



recommended to apply advanced cleaning up instruction procedure to clean up print head prior the print job.

Step 1 Perform NOZZLE CHECK

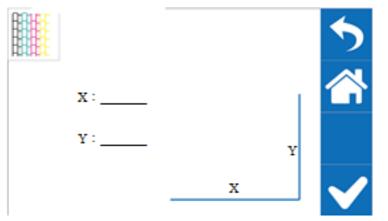


1. Select MENU on the control panel

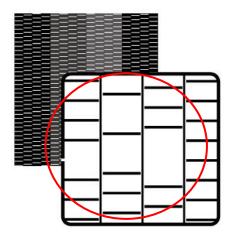


2. Select NOZZLE CHECK

3. Enter X, Y value and press ENTER



Step 2 JF-240UV will print out Nozzle Check test pattern, if the printing quality is similar to the figure below, please clean it up according to the following steps.



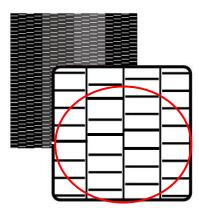




- 1. Select MENU on the control panel
- - 2. Select CLEANING



- 3. Select POWERFUL, and JF-240UV will carry out automatic advanced cleaning up procedure.
- 4. Reconfirm whether the advanced cleaning can meet the required printing quality.
- Step 4 Repeat step 1~2 to confirm whether the advanced cleaning can meet the required printing quality. If the blocked area is filled, then the advanced cleaning is completed.





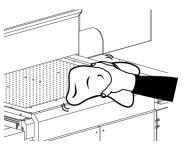
6.3.5 Manual Maintenance

Manually clean up the print head, based on your usage frequency, conduct manual clean up periodically.

Note: Some reminders for manual clean up procedures:

- 1) Before the manual clean up, please remove any media on the JF-240UV printing platform.
- 2) Don't use any tool other than the cleaning swab, as it might damage the print head.
- 3) Don't use the cleaning solution which used to soak the print head or cleaning solution which already has been used to clean up the print head. It could lower the cleaning efficiency.
- 4) For the manual cleaning, please move very slowly and use the minimal force, don't rub, wipe, scratch, or crash the print head.
- * If the print head is damaged, please replace with a new one to ensure printing quality. For the wiper purchasing, please contact the GCC authorized distributors.

Step 1 Use cloth to clean up the area with ink residue







1. Select MENU

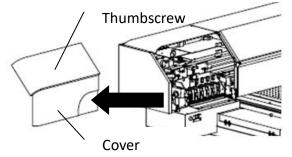


2. Select MANUL CLEANING



3. Select ENTER (The cartridge will move to maintenance area on the left side)

Step 3 Remove thumbscrews and open up the left cover





Step 4 Press Purge switch for 3 seconds and wait for 20 seconds, then press and close ink valve.



Step 5 Dip the cleaning swab into the cleaning solution bottle to moisten it.



Be sure to clean using One of the included Cleaning sticks.

Step 6 Check carefully if there are any residues of ink left on the area underneath the print heads.

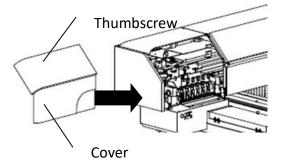


Step 7 Use sponge swabs to clean the area and wipe residues from back to front.



5

Step 8 Open ink valve, close up the left cover and fix it with thumbscrews and select





6.4 How To Replace The Filter and Glass Surface Of LED Lamp

Note: It is suggested to change the filter of LED lamp every six months.

Step 1



1. Select MENU on the control panel

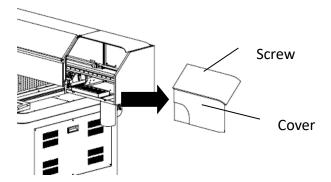


2. Select MAINTENANCE



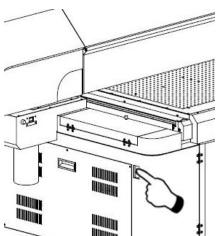
3. Select REPLACE LED LAMP.

Step 2 Remove the thumbscrews and open the right cover.



Step 2 Turn off all ink valves.

Step 3 Turn off the power and unplug the power cord.





Step 4 Disconnect the Led Lamp wire.



Step 5 Take apart the screw at the upper position which is connected with Led lamp set.



Step 6 Take apart the screws at the side position which is connected with Led lamp set.





JF-240UV User Manual

Step 7 Take apart the screws (2 pieces).



Step 8 Replace a new led lamp filter and fasten the screws.



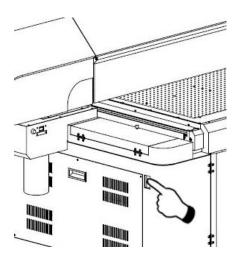
Step 9 Please use a sponge swabs moistened with alcohol to clean the glass surface of the LED lamp.



Step 10 Follow the procedures in reverse order from step 8 to step 5 to assemble the Led lamp.

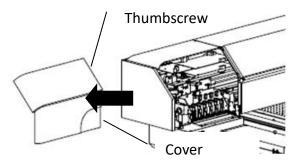


Step 11 Plug in the power cord and restart JF-240UV. The process is done.



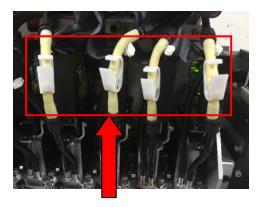
6.5 Ink Drain Away

Step 1 Remove thumbscrews and open the left cover.



Step 2 Turn on all ink valves.









1 Select MENU



2 Select MAINTENANC



3 Select INK INSTALL/DRAIN



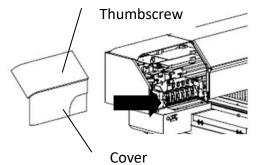
4 Select INK DRAIN AWAY

Step 4 Fill flush into flush channel by order of the instruction on control panel to complete the workflow of ink drain.

Step 5 Ink drain flow:

Start Ink Drain Procedure? ENTER CANCEL 1.Empty waste ink bottle. 2.Open the ink valves of print Head. ENTER CANCEL Close the ink valves of ink bottle as shown ENTER CANCEL Ink purging... 1.Empty the waste ink bottle 2.Open the ink valves of print head ENTER CANCEL 1.Insert the chip of flush solution.2.Seal the bottle caps.ENTERCANCEL Check Flush solution level... inadequate ink adequate ink Flush purging Low flush solution level. ENTER CANCEL Fill flush solution into flush ink bottle. 1.Use cotton swabs with Cleaner to clean print head and print head area. 2.Empty the waste ink bottle. ENTER CAN CANCEL The process is complete ENTER

Step 6 Assemble the left cover with thumbscrew. The process is complete.





6.6 Reset Pressure Gauge with Atmospheric Pressure

Manually adjust the barometer underneath the machine on the left side to reset the pressure gauge with atmospheric pressure.

Step 1 Close all tube clip above print heads



Step 2 Open the right side cover (above main ink tank bottles)



Step 3 Remove the plugs at the bottom of air pressure buffer tank, as soon as removed the plug, the pump will keep pumping.





Step 4 Open the cover of pressure gauge.





Note: the default setting for pressure gauge is between 3~4 kpa according to local environment. Adjust the pressure gauge to optimized value base on the weather condition to prevent ink from dripping.

Step 6 Put back the plug of air buffer tube.



Step 7 Install back the gauge cover and right side cover.

Step 8 Open the ink tube clip and complete the procedure.



6.7 Lubrication of the X Rails

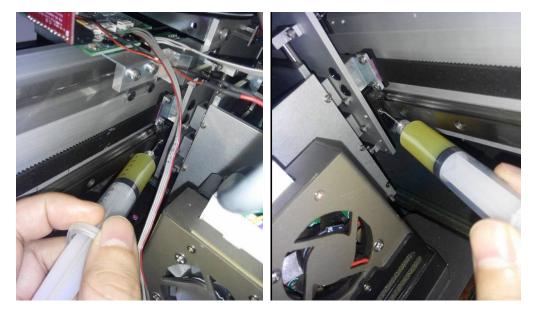
The procedure of Lubrication:

Step 1 Power off the machine

Step 2 Move the carriage rightwards or leftwards to allow the grease being injected.

Step 3 Inject 1ml of grease to the injection opening inside the linear bearing on both side.

Note: Lubrication regularly depending on the job loading, recommend on a quarterly basis.



Lubrication Notes

- 1. The carriage must move back and forth on one side, while injecting the grease.
- 2. Users can apply manual lubrication or automatic lubrication to the Miniature linear rail for regular maintenance.
- 3. There should always be lubricant coated on the surface of the rail.
- 4. Apply the lubrication again before the oil changes color due to corrosion.

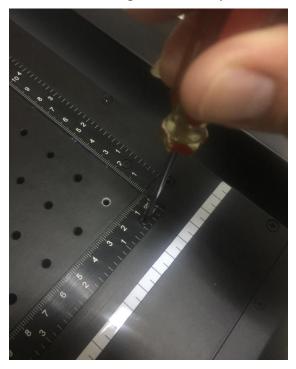
Lubrication Intervals

- 1. The length of lubrication interval depends on the working environment, loading and pressure bearing condition. The length of the lubrication interval varies, and the safe lubrication intervals can only be known after careful observation.
- 2. Lubrication interval should not exceed one year.

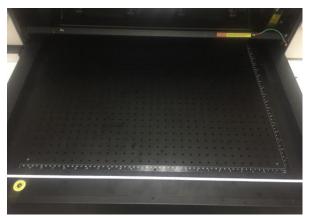


6.8 How to replace alignment rule

Step 1 Use cross screwdriver to remove the screws on the alignment rules on X and Y axis. Replace the thin alignment rule by the thick one and fix it.



Step 2 the replacement of the alignment rules is complete.





Chapter 7 Caldera Installation

7.1 Caldera Installation

Recommended System Requirements

Linux OS : Official Debian 8.6 Jessie (Mate desktop)

CALDERA Debian 2 (however APPE3 – no APPE4)

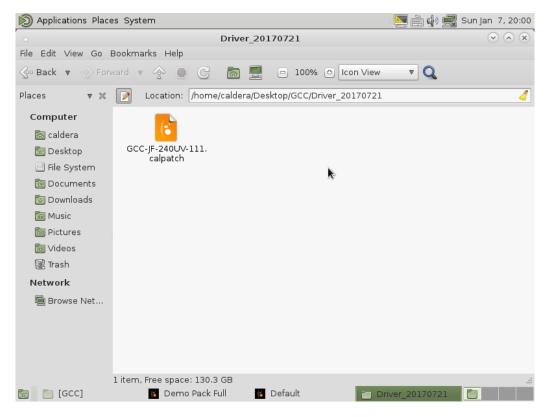
Processor : Intel Core i3, i5 or i7.

RAM : 4GB or 8GB (recommended), minimum 1GB per core, recommended at least 2 GB per core HDD : 250GB

Monitor / Videocard : 1280×1024 minimum resolution

7.1.1 How to set GCC JF-240UV Driver

Step 1 Install GCC-JF-240UV calpatch





Step 2 Enter the password: caldera

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Places 🔻 🗶	Location: /home/caldera/Desktop/GCC/Driver_20170721	4
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📓 Trash Network	Details Cancel Authenticate	
뗼 Browse Net	Cancel	
	"GCC-JF-240UV-111.calpatch" selected (1.2 MB), Free space: 130.3 GB	
📷 👘 [GCC]	🚯 Demo Pack 👔 Default 👘 Driver_2017 🔍 Authentic	

Step 3 Click Next





🔊 Applications Places System		💹 👜 🅼 🧱 Sun	Jan 7, 20:05
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🛅 🔚 [GCC]	Driver_20170721	tch Installation 👘 😼	





Step 4 Click OK and the installation is complete.



7.1.2 Launch Caldera RIP

Step 1 Click Caldera RIP Icon





Step 2 Select the file you want to use.

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Default		No image				
t 🖉	Copies	: 1 🗄		ICColor	Pixtouch	Snapshot
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	Loading	: 610x508 mm	2			
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PS PS	Quality	: Standard				A STATE OF A
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	+	≁ ≡				
	Ready		Print Quit			
📷 🛛 🚺 Demo Pack Full		🛿 Default	GC	C-JF-240UV		

Step 3 Move the selected file to the GCC-JF-240UV window.

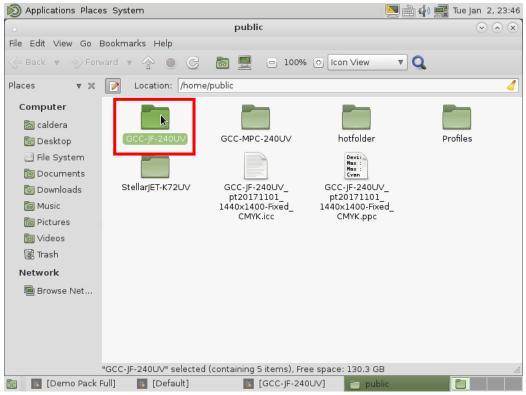




Step 4 Edit the file in Main window and then click Print.

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Unit :	pixels inches	mm					Print	Reset	Close
in = (*	Demo Pack Full	(🛿 Default			GCC-JF-2	40UV			

Step 5 Caldera will automatically create a file folder named "GCC JF-240UV" under /home/public and save the RIP file in the folder. Go to /home/public/GCC-JF-240UV and copy all RIP files to USB flash drive.





Step 6 Launch FlexiPRINT on your computer/laptop.

Edit Setup	View Hel	р										
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	b 🔻	RIP 🔻	Send	Estimate	Nest	Unnest	Abort	Delete	Help ▼	T 1		
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Step 7 Go to Job Property→Printer Control, select VLCD from dropdown menu and click Test Pattern.

Job Properties			
Preset: [Use Default	Job Properties]		
	P 🔛 🛃 🗐		٦
Printer Control	VLCD	✓ Test Pattern	
Direction:	Bidirectional V Over print:	1 ~	
Spot_White	Spot color	None ~	
Spot_Vamish	Spot color V	None ~	w
Spot3	Spot color V	None ~	bertie
Spot_White2	Spot color \sim	None 🗸	o prop
	(cost Calue & Industry)		Basic job properties
	Spot Color & Ink set		
		Restore Defaults	



Step 8 Click Add job

Open Close	192 . 168 . 4	50 . 240	Port 18767 Sa	ve			
Color Offset Print Se	ttings Job ink use PH	Parameters	Machine Parameters	Rotary S	Scale Setting	Roll Scale	Setting
Send Cmd	00 VLCD	~	Spot Varnish None	~	UV Or	1	
Add Job			Spot White None	~	L lamppower R lamppower		
Send Job	Image Position Co	opies	Quality Test Pattern	~	UV Of		
Job Stop	Over Print 1	~	Print Direction Print Left	n ~	Poll Size	Machir	ne Test
<< Left Limit	 Right Limit >>		Job Type Print	~	Media Pos	Engine	Encode
Image DPI (W x H): Image Size(W x H):		Static					

Step 9 Click Send job and the process is complete.

VLCD (JI	F-240UV V1.01-28)						_		×
(Open Close	IP Address 192 . 168	. 50 . 240	Port 18767	Save				
Job	Color Offset Print Set	ings Job ink use	PH Parameters	Machine Parameter	s Rotary S	Scale Setting	Roll Scale	Setting 1	F
	Send Cmd	00 VLCD	~	Spot Varnis None	~	UV O	n		
	Add Job			Spot White None	~	L lamppowe]	
	Send Job	Image Position	Copies	Quality Test Patter Print Direct		UV O			
	Job Stop	Over Print 1	~	Print Direct	v	Poll Size	Mach	ine Test	
	<< Left Limit	Right Limit >	>	Job Type Print	~	Media Pos	Engine	Encoder	
	Image DPI (W x H): Image Size(W x H):		Static						
Sta	atic								

Chapter 8 Reference Parameter Settings

The following reference parameter is used on GCC verified materials.

	GCC JF-240UV Reference Parameter							
NO	Material	Print Mode	Print Color	Directional	LED Power	Primer		
1	PVC Foam board (3mm)	Quality	ҮМСК	Bi-Directional	100%	No		
2	Acrylicd (3mm)	High Density	YMCKW	Bi-Directional	100%	Yes		
3	ABS/PC (10mm)	Quality	YMCKWV	Bi-Directional	100%	No		
4	Wood (70mm) pencil, pen container, wooden product	Quality	YMCKW	Bi-Directional	100%	No		
5	Plywood (50mm)	Quality	ҮМСК	Bi-Directional	100%	No		
6	Gold foil paper (0.8mm) packaging	High Density	YMCKWV	Bi-Directional	100%	No		
7	Aluminium Composite Material (3mm)	Quality	ҮМСК	Bi-Directional	100%	Yes		
8	Corrugated sheet, PP (3mm~5mm)	High Speed	ҮМСК	Bi-Directional	100%	Yes		
9	Aluminium-magnesium alloy (10mm)	Quality	ҮМСК	Bi-Directional	100%	Yes		
10	PET (0.2mm)	High Density	YMCKW	Bi-Directional	100%	Yes		
11	Aluminum foil (OPP) (0.25mm)	Quality	ΥΜϹΚΫ	Bi-Directional	100%	Yes		



Appendix A: JF-240UV Specification

Model		JF-240UV			
Printing method		On-demand Piezo head			
Print head (Drop s	size)	Konica KM512 (4pl)			
Printing area (W x	: L)	24 x 20 in. (609.6 x 508 mm)			
Max. media size	Sheet	25.6 x 21.7 x 11.8 in. (650 x 550 x 300 mm)			
(W x L x H)	Weight	Less than 15 kg			
Print head adjustr	nent	Auto Media Calibration (AMC [™])			
Speed		High Speed: 5.78 m2/hr (720 x 1,440 dpi) Quality: 3.9 m2/hr (720 x 1,440 dpi) High Density: 1.91 m2/hr (1,440 x 1,440 dpi)			
	Туре	UV curable ink			
Ink cartridges	Capacity	1 Liter			
	Colors	C/M/Y/K (W/V Optional)			
Ink curing unit		Dual UV LED Lamp			
Printing resolution	าร	1440 x 720dpi 、 1440 x 1440dpi			
Z movement		Motorized			
Control Panel		Touch Screen (480 x 272 resolution)			
Interface		Ethernet 1000BASE-T			
Distance Accuracy	v – When printing	Error of less than +-0.3% of distance traveled, or+-0.3mm (0.01 inch), whichever is greater			
Voltage requirem	ent	115/220VAC 50/60HZ			
Power consumption	on-Operating	115V AC (60HZ) (Max. 270W) 220V AC (50HZ) (Max. 260W)			
Power consumption	on-Stand by	115V AC (60HZ) (Max. 160W) 220V AC (50HZ) (Max. 200W)			
Environment (Ten	nperature/Humidity)	22°C-30 °C (71.6°F- 86 °F) / 40%-60% humidity			
		1,760 x 1,160 x 1,140 mm			
Dimension (W x L	хп)	69.3 x 45.7 x 44.9 in.			



Weight	200kg
	Rotary attachment
Optional	Roll to Roll system
	Fume Extraction Unit

*Please visit GCC club for the latest user manual download. GCC reserve the right to modify the user manual without notice.