INSTRODUCTION OF PRINT CONTROL SOFTWARE

Ⅰ. SOFTWARE INSTALLTION

1. PrintExp preparation

Recommended PC configurations:

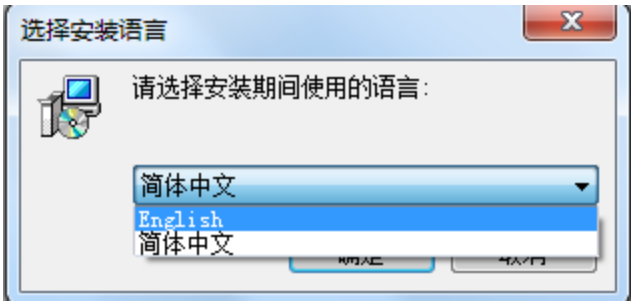
--CPU：2.50GHZ

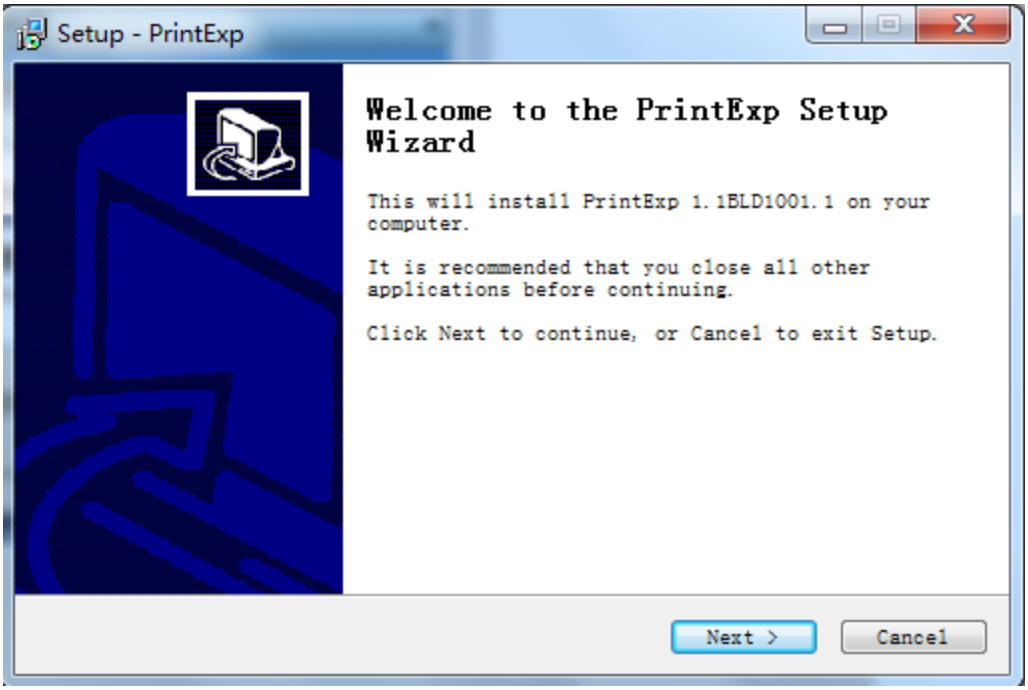
--RAM：2.00GB

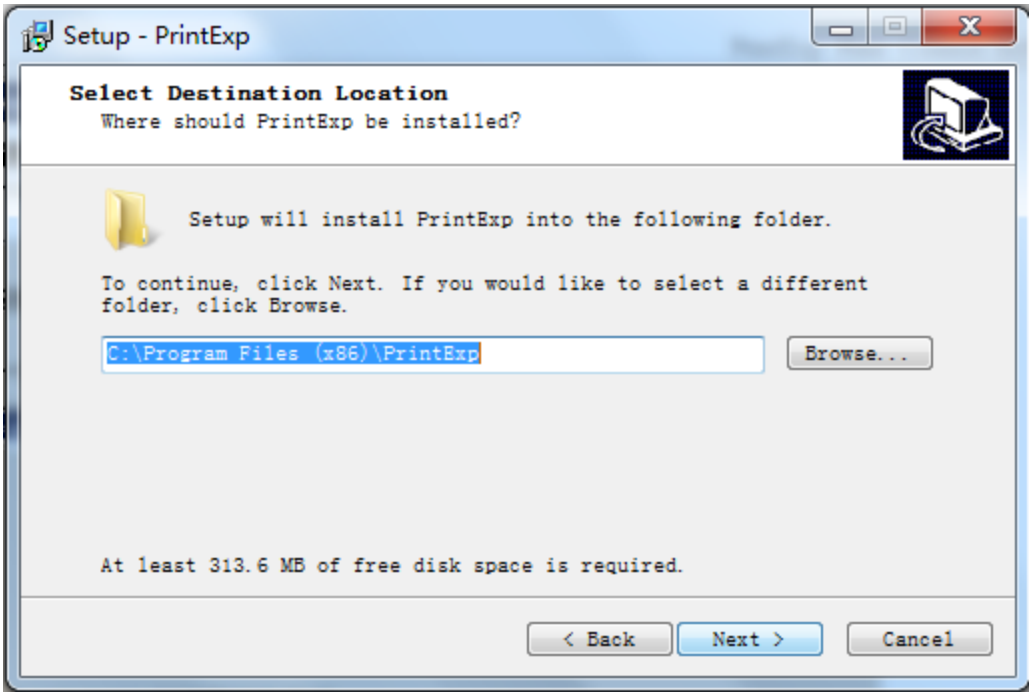
--Motherboard：P321-ES3G

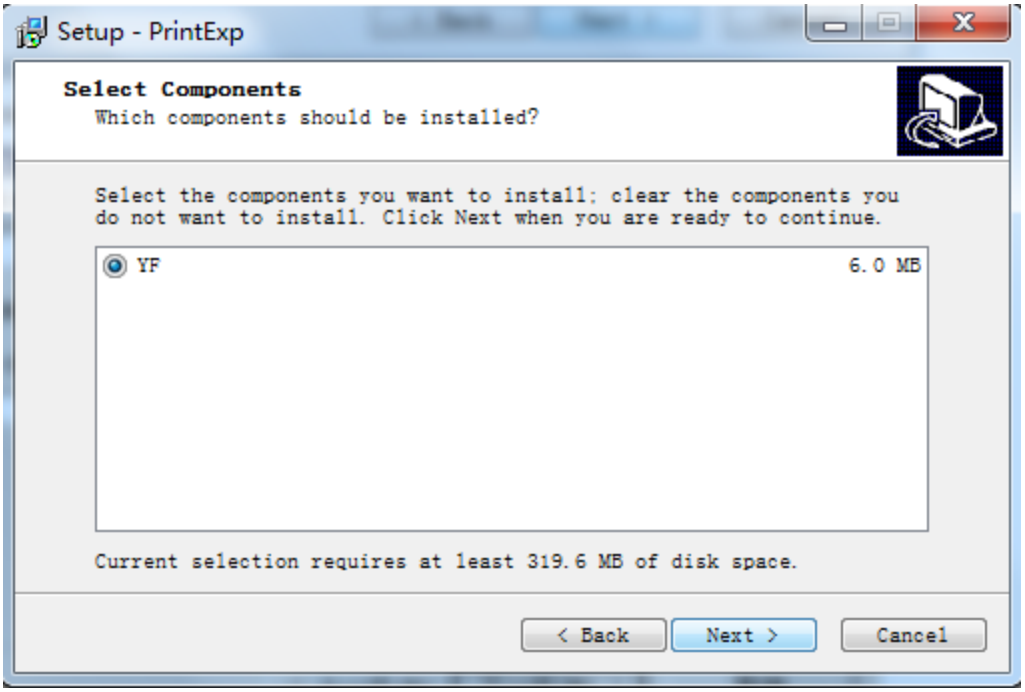
2. PrintExp installation

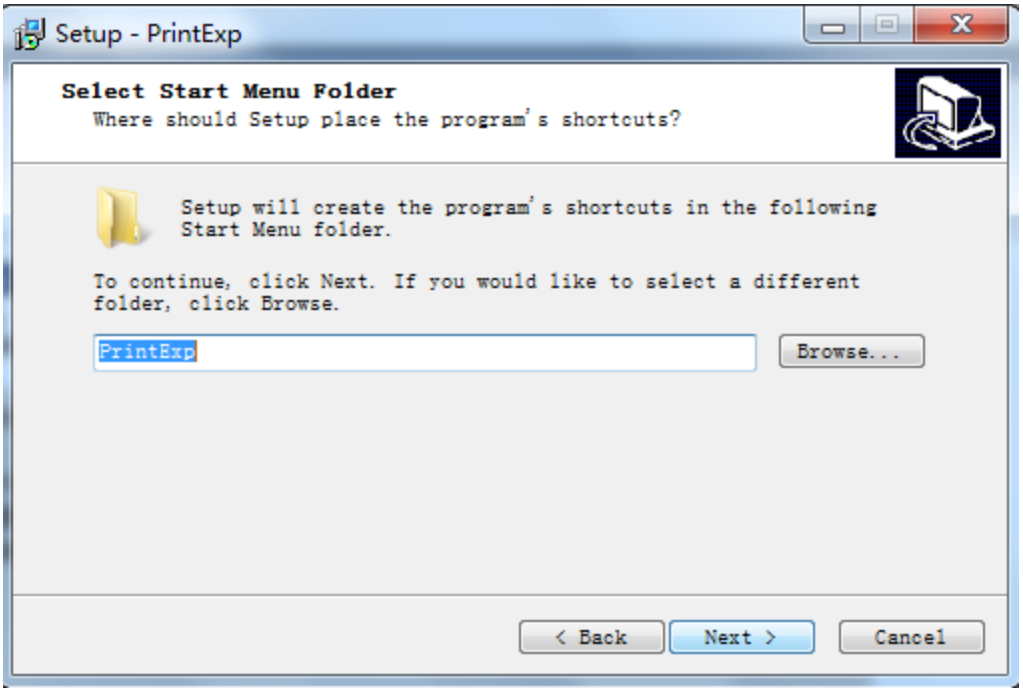
(1). Install the PrintExp control software, then double click “PrintExp_Setup.exe”, select “English”, as shown in the following picture:

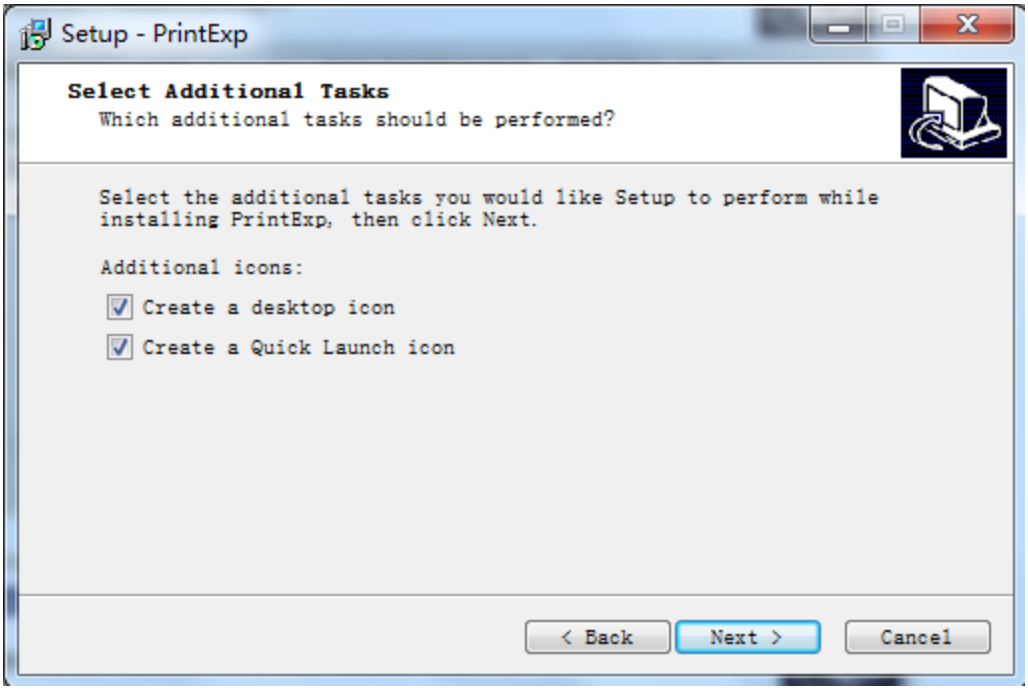


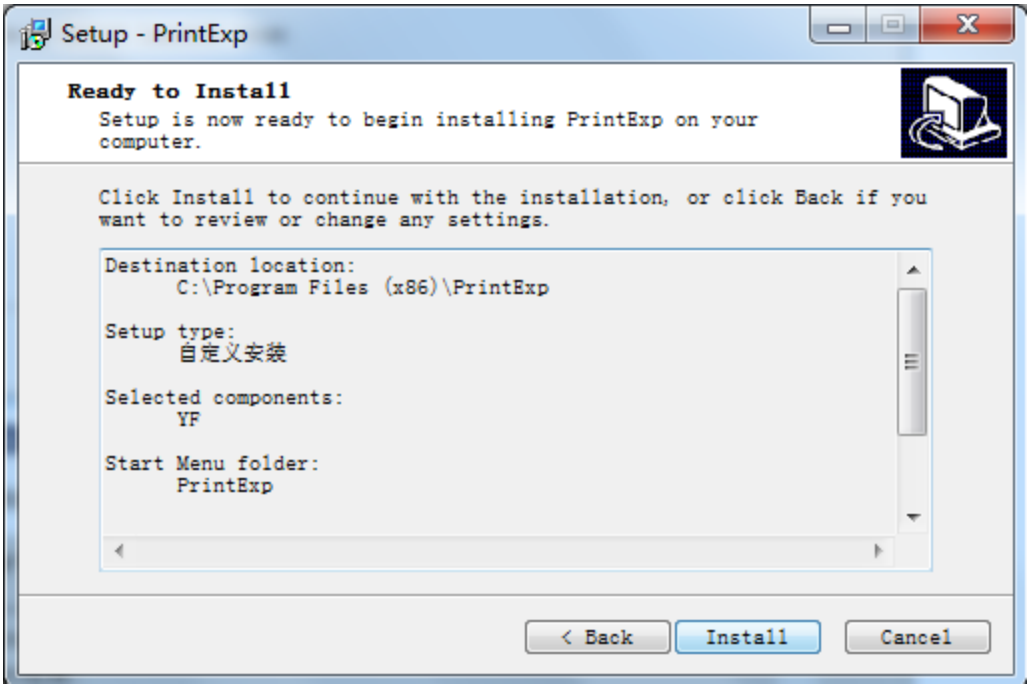


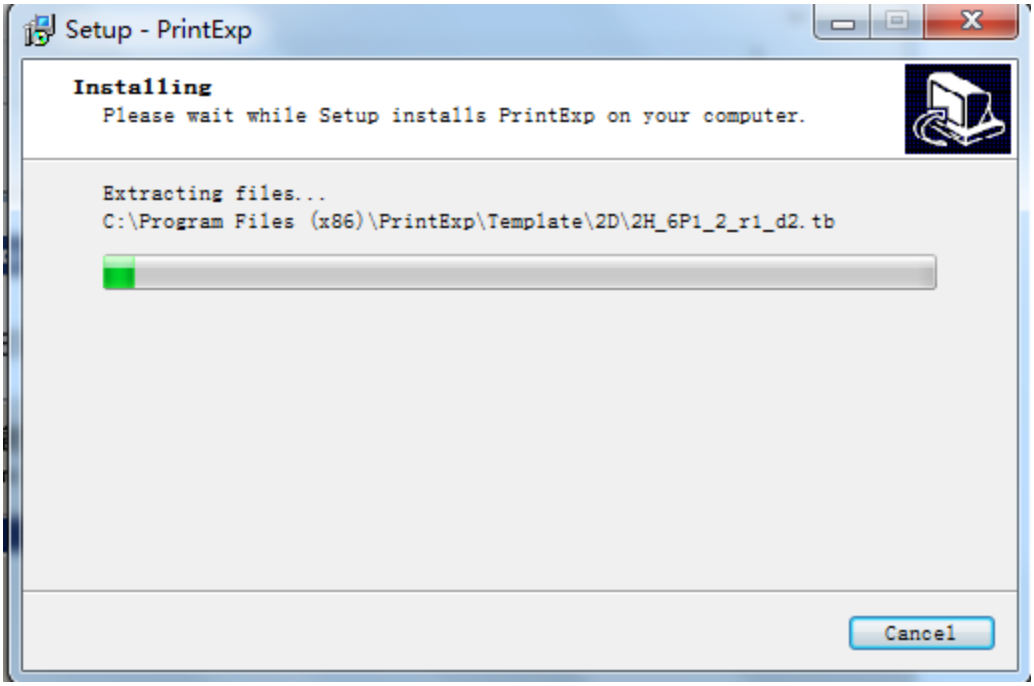

Setup - PrintExp
Select Destination Location
Where should PrintExp be installed?
Setup will install PrintExp into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files (x86)\PrintExp
Browse...
At least 313.6 MB of free disk space is required.
< Back
Next >
Cancel

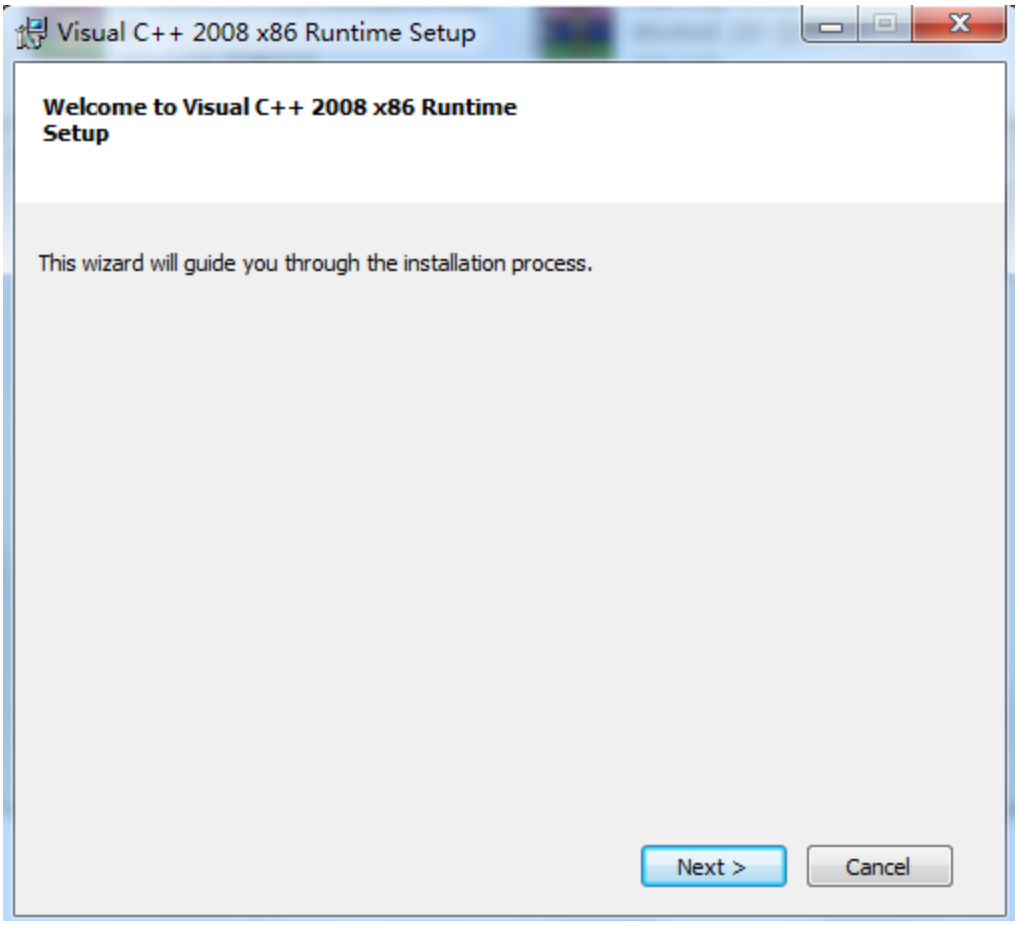

Setup - PrintExp
Select Components
Which components should be installed?
Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.
YF
6.0 MB
Current selection requires at least 319.6 MB of disk space.
< Back
Next >
Cancel

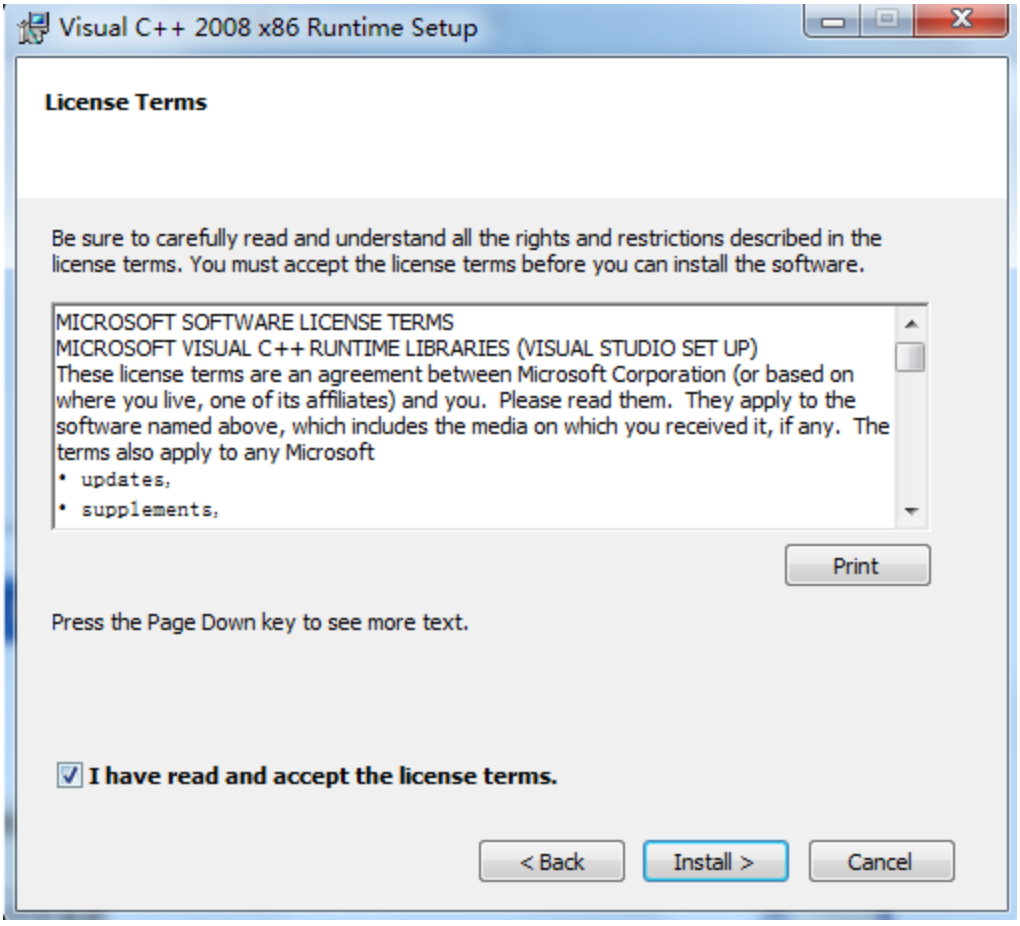

Setup - PrintExp
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
PrintExp
Browse...
< Back
Next >
Cancel

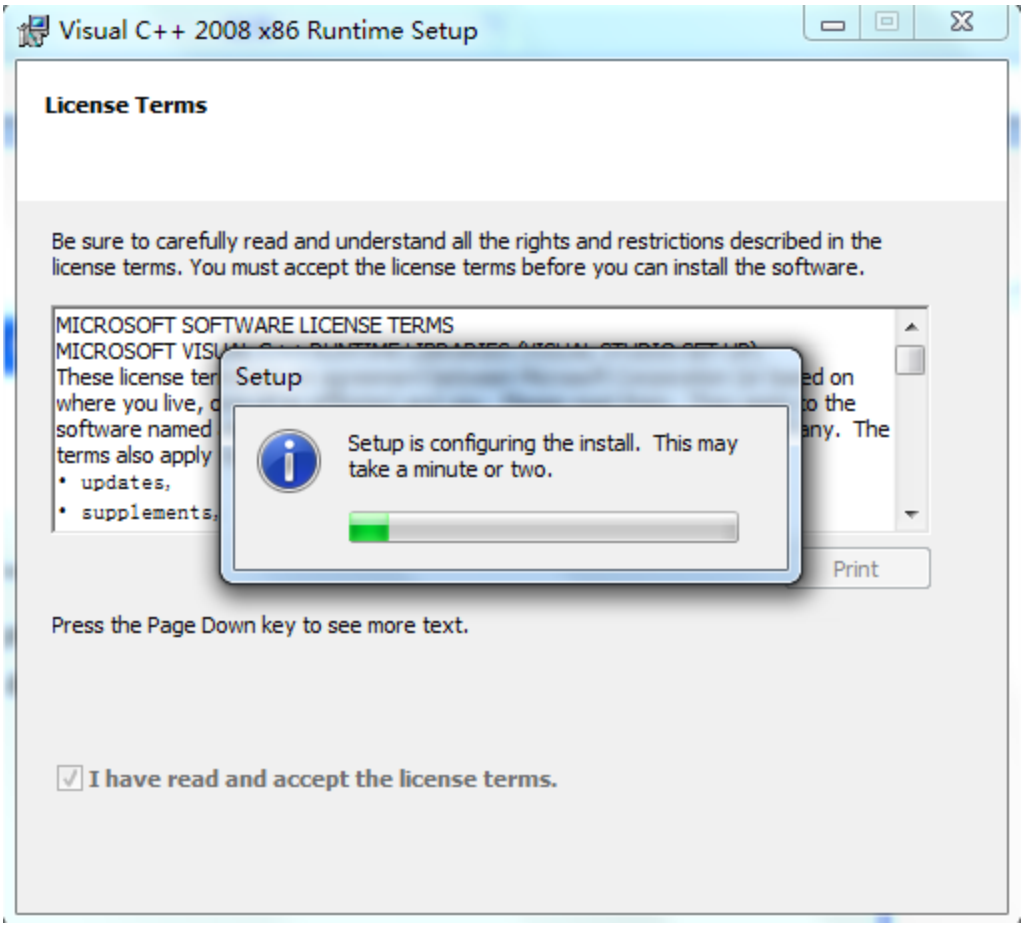

Setup - PrintExp
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing PrintExp, then click Next.
Additional icons:
Create a desktop icon
Create a Quick Launch icon
< Back
Next >
Cancel

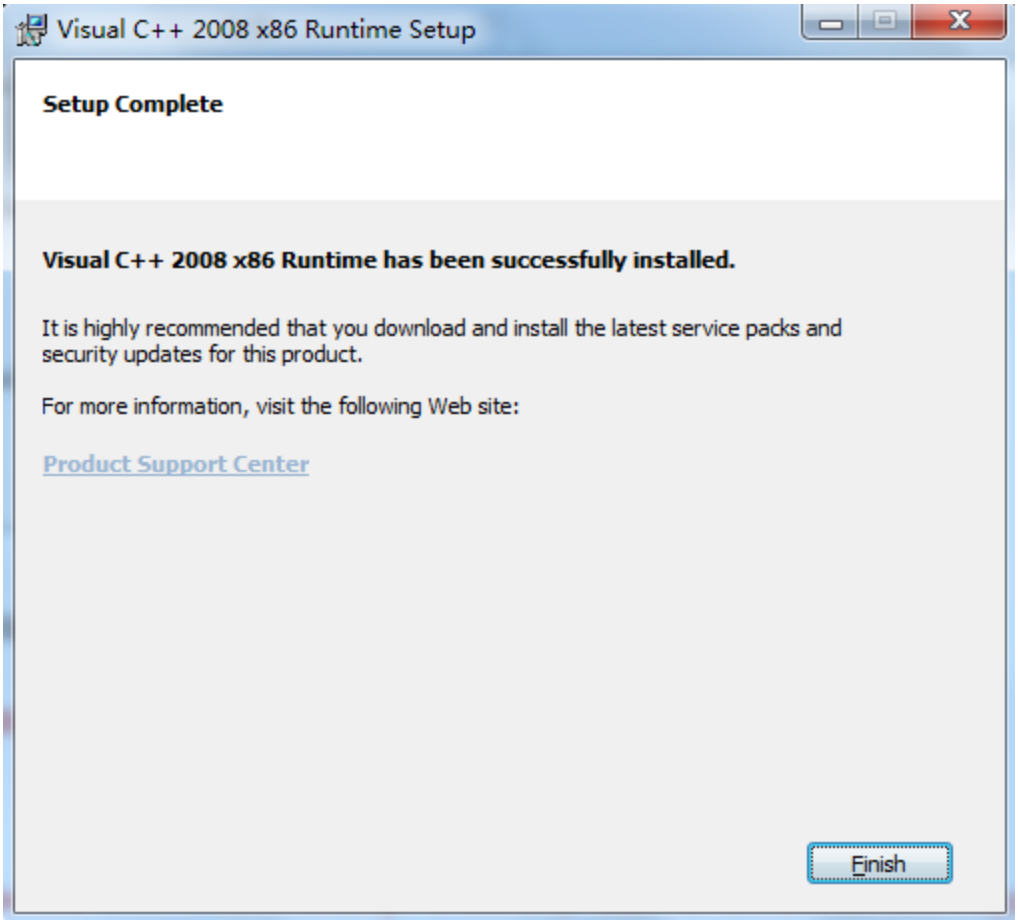

Setup - PrintExp
Ready to Install
Setup is now ready to begin installing PrintExp on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files (x86)\PrintExp
Setup type:
自定义安装
Selected components:
YF
Start Menu folder:
PrintExp
< Back
Install
Cancel


Setup - PrintExp
Installing
Please wait while Setup installs PrintExp on your computer.
Extracting files...
C:\Program Files (x86)\PrintExp\Template\2D\2H_6P1_2_r1_d2.tb
Cancel


Visual C++ 2008 x86 Runtime Setup
Welcome to Visual C++ 2008 x86 Runtime Setup
This wizard will guide you through the installation process.
Next >
Cancel


Visual C++ 2008 x86 Runtime Setup
License Terms
Be sure to carefully read and understand all the rights and restrictions described in the license terms. You must accept the license terms before you can install the software.
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT VISUAL C++ RUNTIME LIBRARIES (VISUAL STUDIO SET UP)
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
• updates,
• supplements,
Print
Press the Page Down key to see more text.
I have read and accept the license terms.
< Back
Install >
Cancel

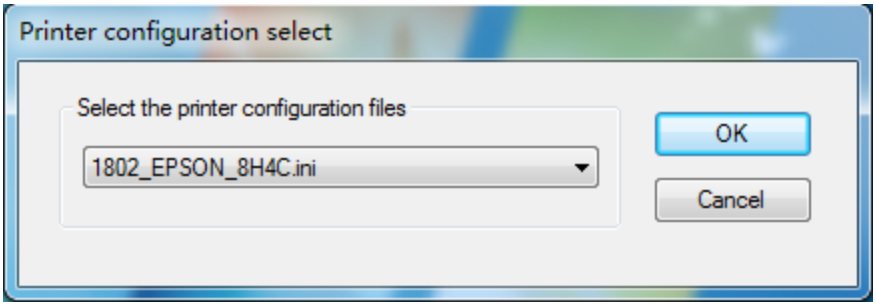

Visual C++ 2008 x86 Runtime Setup
License Terms
Be sure to carefully read and understand all the rights and restrictions described in the license terms. You must accept the license terms before you can install the software.
MICROSOFT SOFTWARE LICENSE TERMS
Setup
Setup is configuring the install. This may take a minute or two.
Print
Press the Page Down key to see more text.
I have read and accept the license terms.


Visual C++ 2008 x86 Runtime Setup
Setup Complete
Visual C++ 2008 x86 Runtime has been successfully installed.
It is highly recommended that you download and install the latest service packs and security updates for this product.
For more information, visit the following Web site:
Product Support Center
Finish

Ⅱ. INTERFACE DESCRIPTION

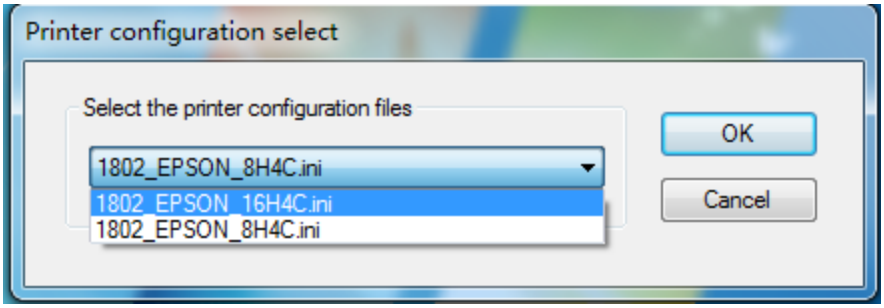
Double click the icon 

on the desktop， or find it by “Start”, as shown in the following picture:

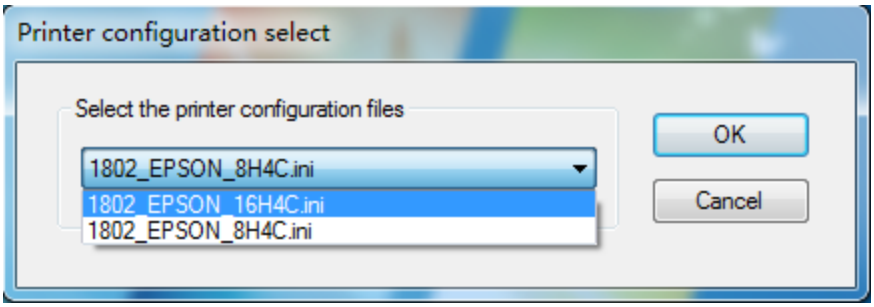


Select the different configuration files：

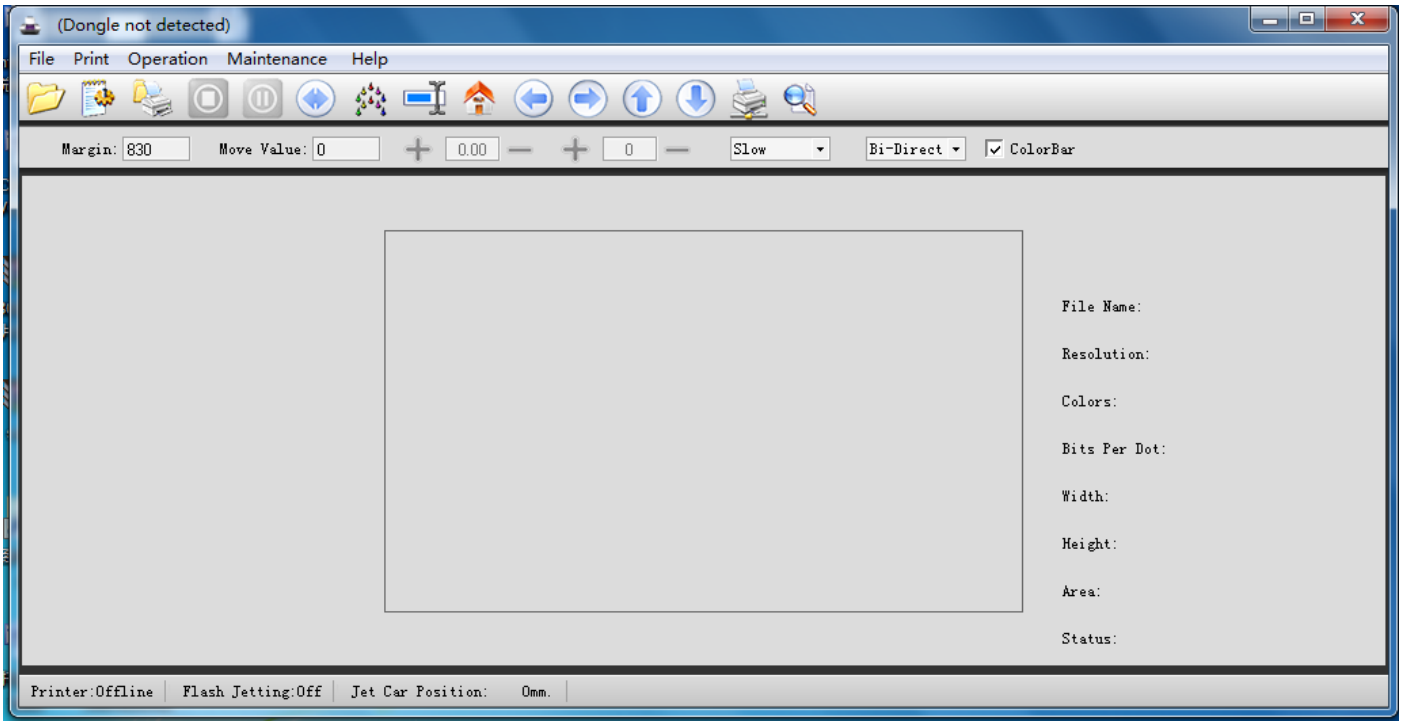
1. KCMY+KCMY print mode:



2. KCMY print mode:



Instructions of PrintExp:



1. Toolbar:

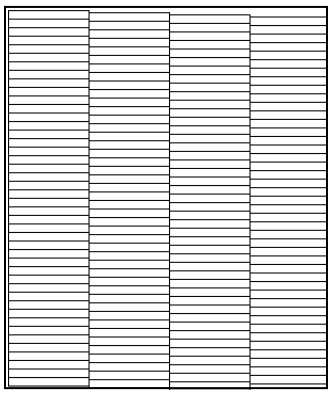
From Left to Right:

(1) Open: open a specified directory RIP image format.
(2) Setup: software function options.
(3) Print: print the current job.
(4) Stop: cancel the current job.
(5) Pause: pause the current printing job.
(6) Clean: clean the printhead.
(7) Flash Jetting: flash jetting origin position.
(8) Note in the lower left corner to check the flash spray status.

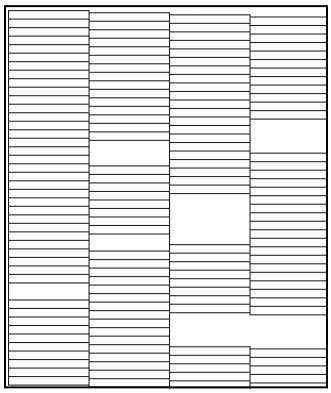
(9) Restoration: The carriage returns to origin.
(10) Left: Move carriage to the left.
(11) Right: Move carriage to the right
(12) Feeding: feed printing materials
(13) Loading material: loads printing materials
(14) Test: The test button is divided into two sub-options: “Nozzle Test” and “Vertical Calibration”.

① Nozzle Test

Nozzle Test Diagram

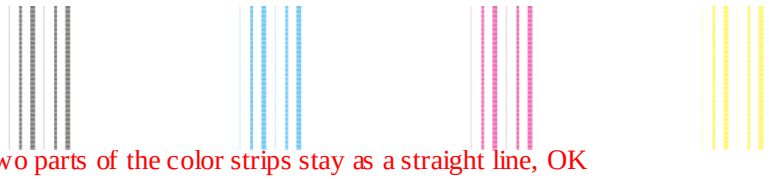


Perfect nozzle test



Please clean the printhead.

② Vertical Calibration: Check if the nozzle position is in the vertical line



When the two parts of the color strips stay as a straight line, OK

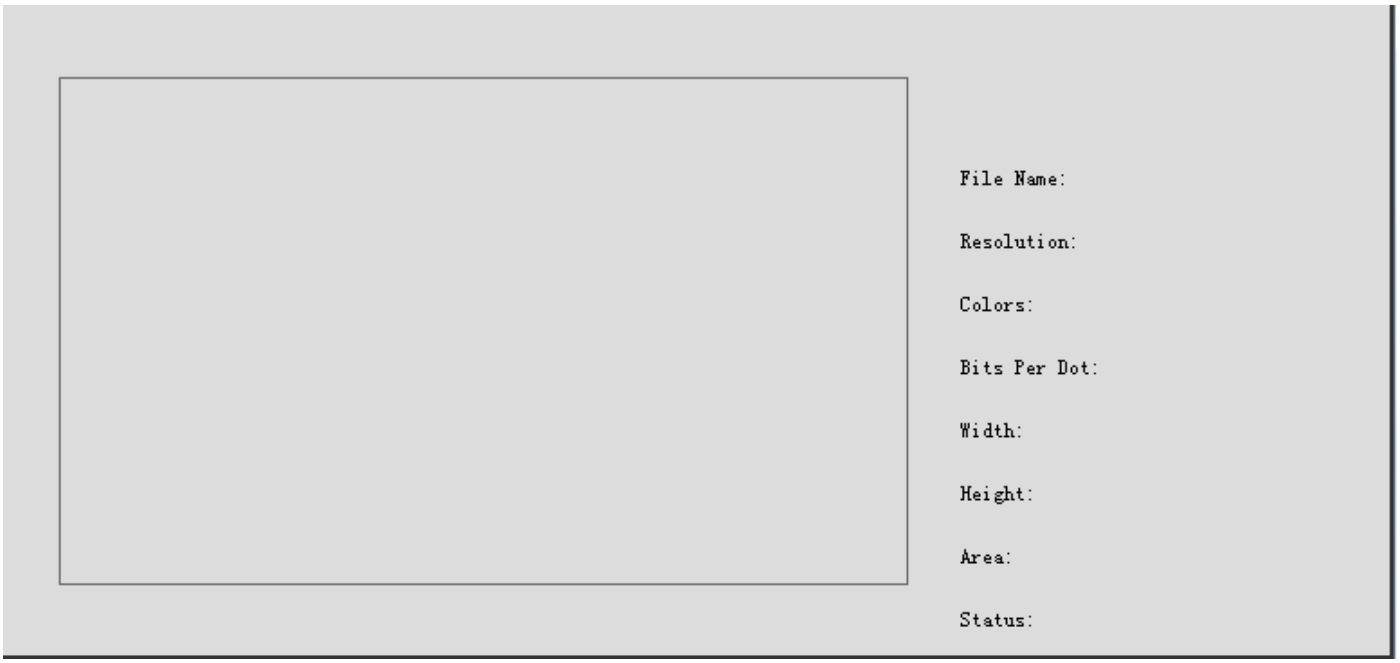
When the two parts of the color strips stagger, the nozzle position physical adjusting is required.

1. From Left to Right:
   (1) Margin: Print start position.
   (2) Move Value: Carriage motion according to the specified values.
   (3) Stepping: plus or minus the values
   (4) Bidirectional offset: plus or minus the values
   (5) Print Speed select: Print speed of carriage motion (low, medium, high optional)
   (6) Print Direction: (unidirectional to left, unidirectional to right, or bidirectional optional)
   (7) Add a color strip.

2. The Status Bar (In the lower left corner)

   (1) Printer: status of connection with PC
   (2) Flash Jetting: OFF or ON of flash jetting.
   (3) Jet Carriage position: current position of carriage.

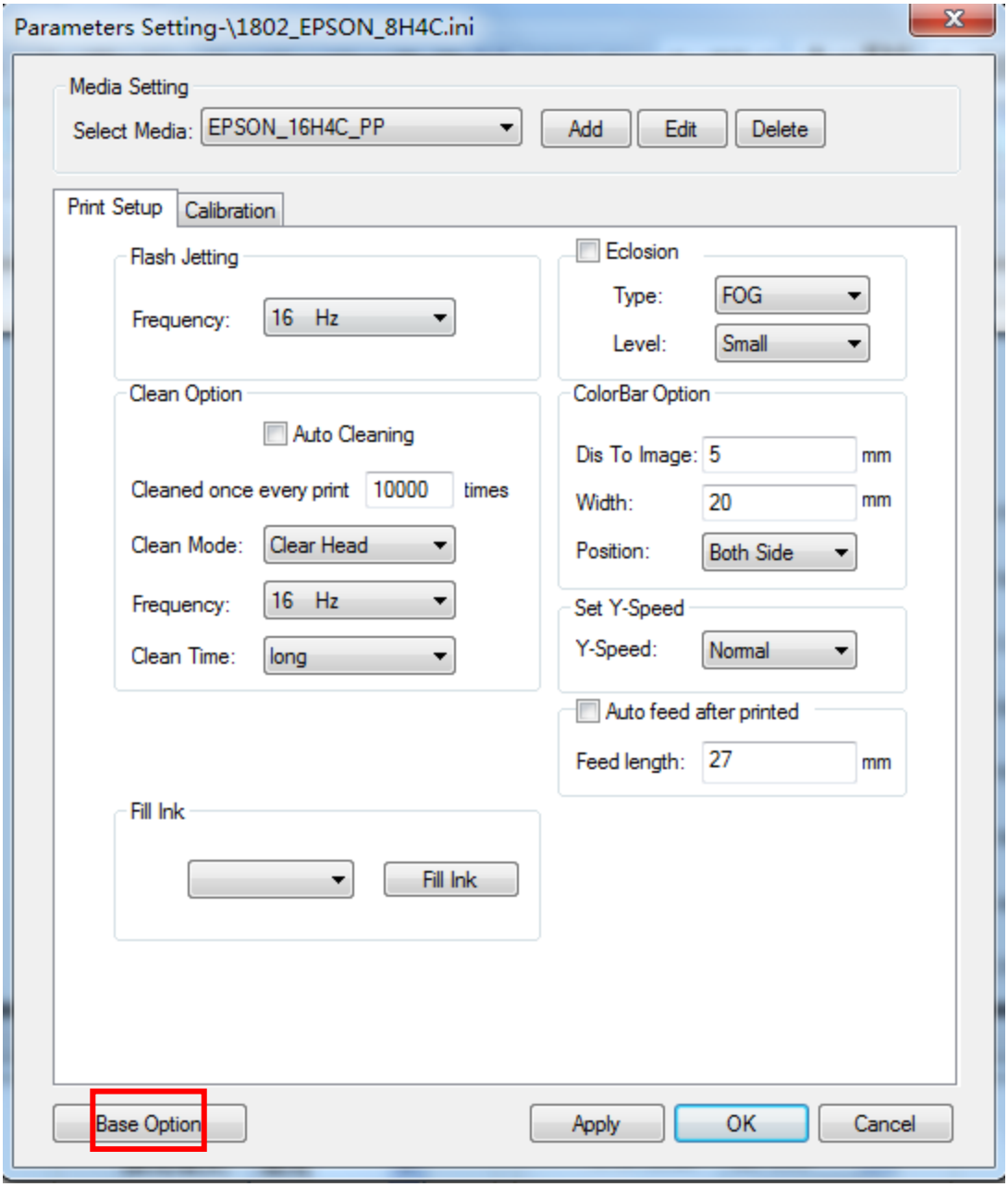
3. The Print Job Information Bar



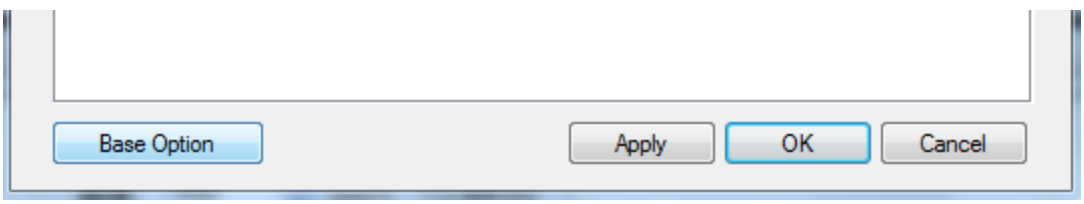
Filename: Filename of current job
Resolution: Resolution of current file
Colors: Number of colors for current job
Bits Per Dot: Grayscale
Width: Width of current file
Height: Height of current file
Area: Area of current file
Status: Status of current print job

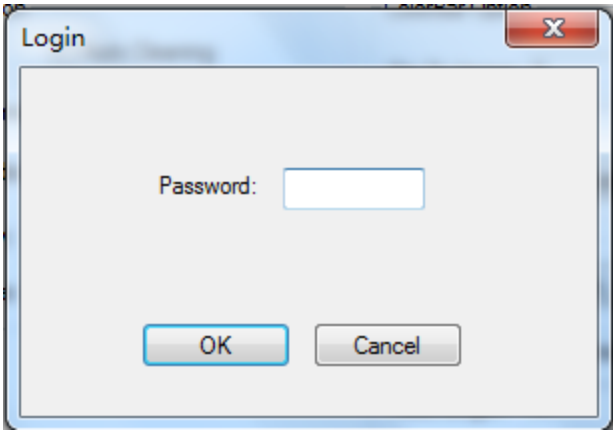
Ⅲ. Parameters Setting

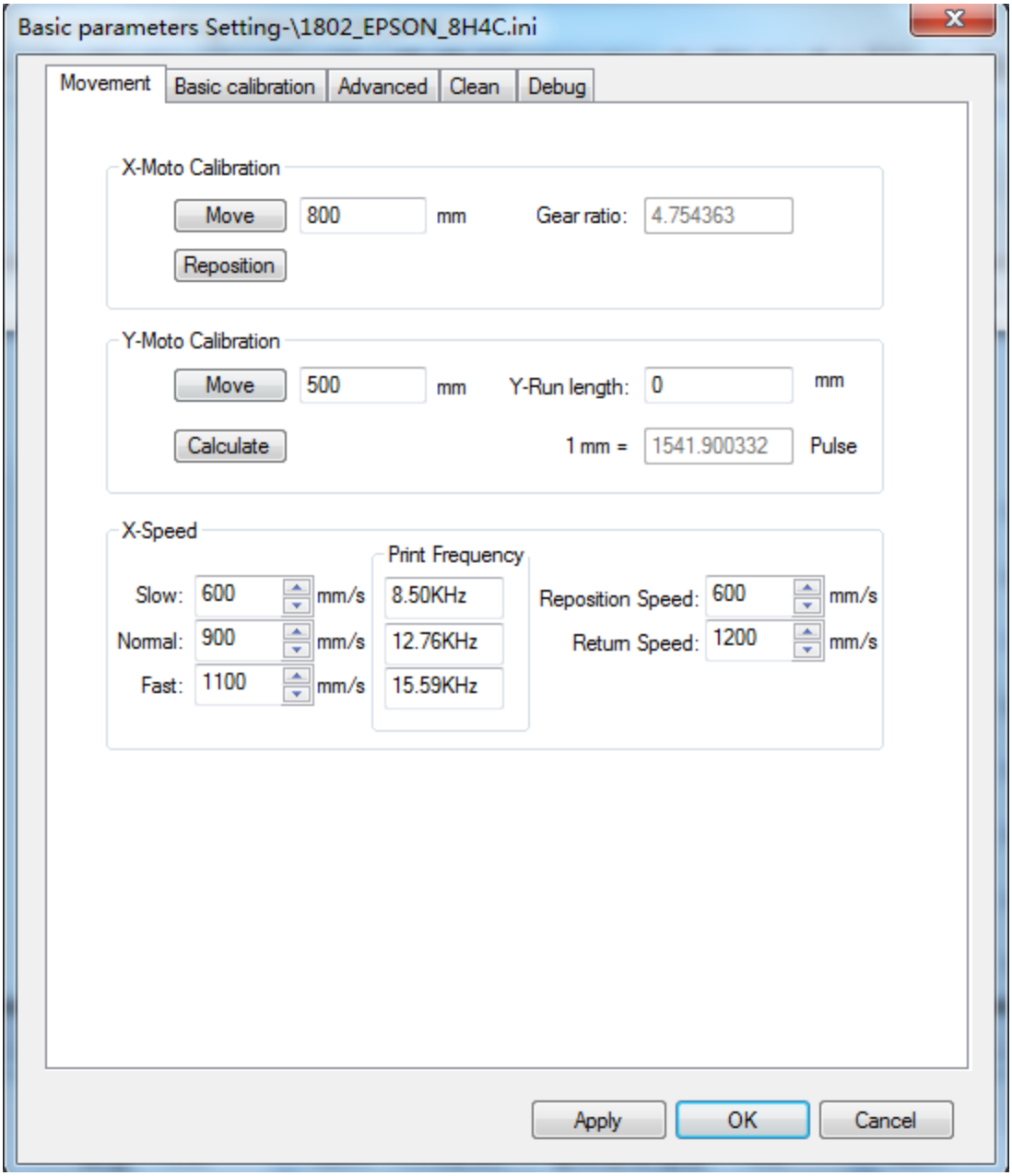
1. Click on the icon  to enter the parameters setting:



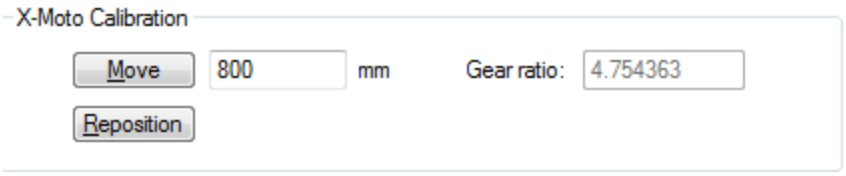
Click on the “Base Option” to enter the setting, by password “123”:




Login
Password:
OK
Cancel

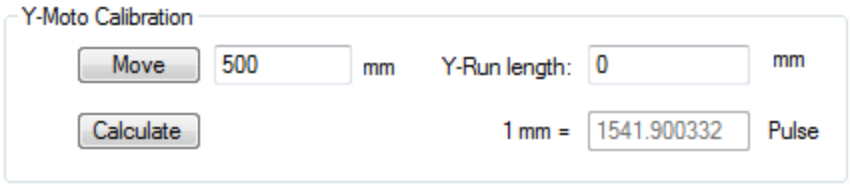

Basic parameters Setting-\1802_EPSON_8H4C.ini
Movement
Basic calibration
Advanced
Clean
Debug
X-Moto Calibration
Move
800
mm
Gear ratio:
4.754363
Reposition
Y-Moto Calibration
Move
500
mm
Y-Run length:
0
mm
Calculate
1 mm =
1541.900332
Pulse
X-Speed
Print Frequency
Slow:
600
mm/s
8.50KHz
Normal:
900
mm/s
12.76KHz
Fast:
1100
mm/s
15.59KHz
Reposition Speed:
600
mm/s
Return Speed:
1200
mm/s
Apply
OK
Cancel

X -Motor Calibration



Click on the "move" button, the carriage will move to the left (defaulted the right is origin), after the carriage stops, click on the "Reposition" and it will go back to the origin, the gear ratio calibration completes.

Y-Motor Calibration

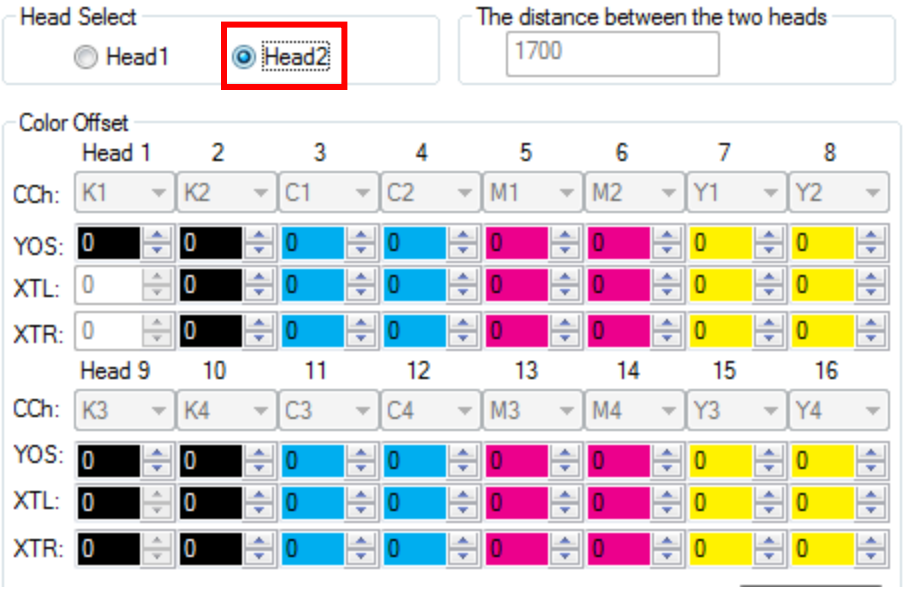


Click on the "Move" button, media will move forward for a distance, measuring the actual distance forwarded, fill out the actual distance into the "Y-Run Length", then click on "Calculate" , the value of pulse will automatically calculate.

2. The installing order of dampers

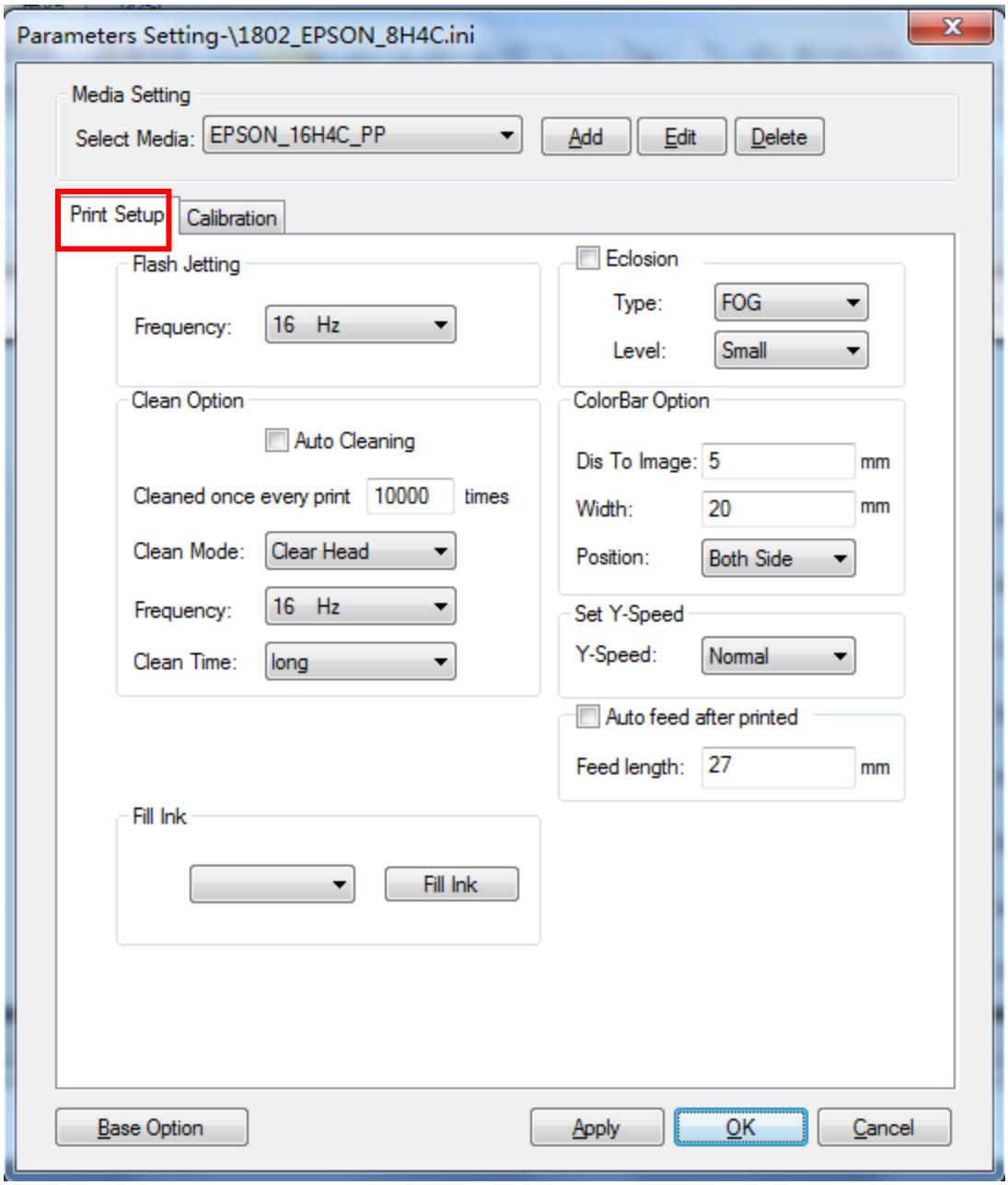
KCMY color offset:

KCMY+KCMY color offset:



3. Print Parameters Setting

(1) Print Setup:



① Frequency of flash spray: range--（1Hz~4KHz）

② Clean Option

Auto Cleaning: Defaulted flash jetting auto cleaning mode while printing

Clean Mode: Defaulted flash jetting clean mode

Frequency: Setup the frequency of flash jetting

Clean Time: Setup the clean time of auto clean

③ Eclosion: Rand/wave/fog/2D optional, and small/middle/big level optional

④ Color Bar Option

Distance to image: distance of color bar to image

Width: setup the width of color bar

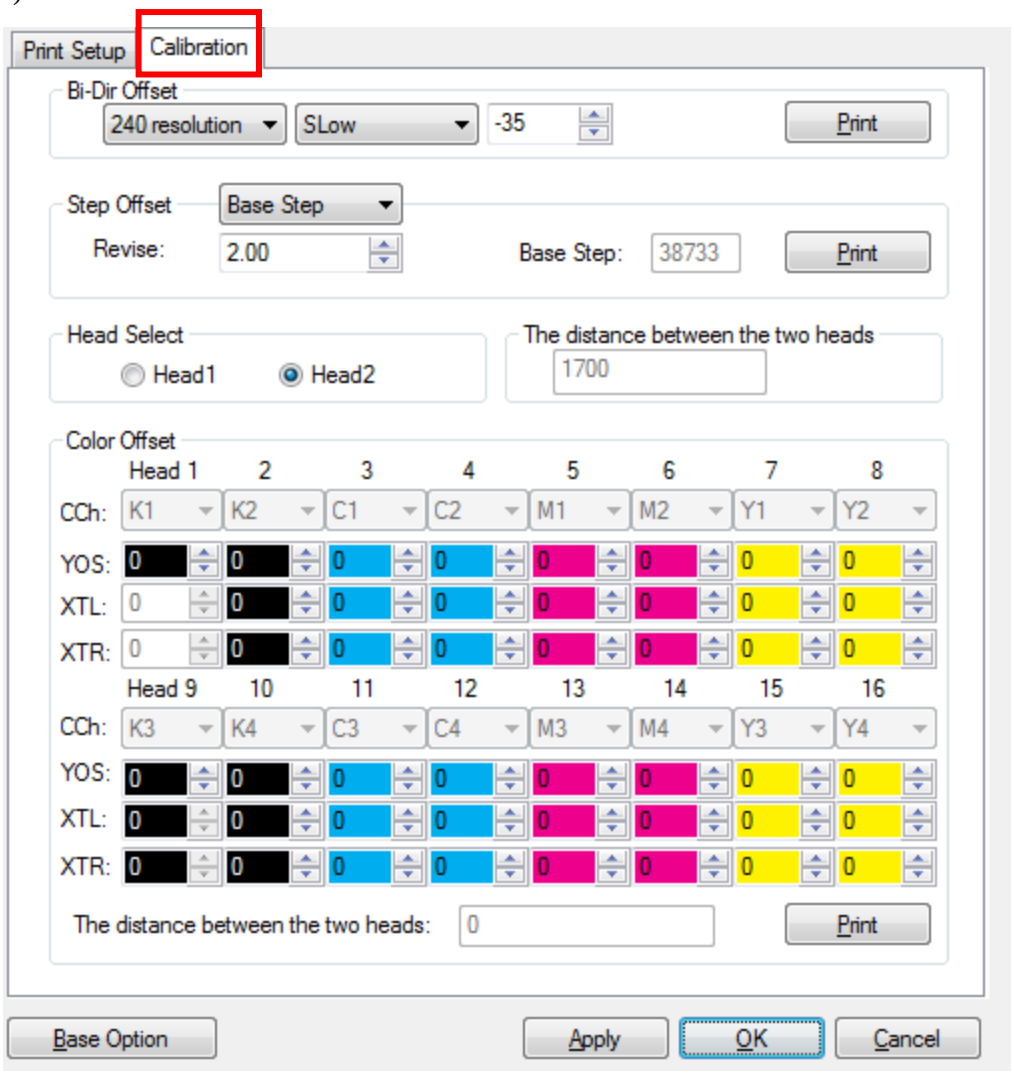
Position: setup the position of color bar (Image left/Image right/Both sides optional)

⑤ Auto feed after printed

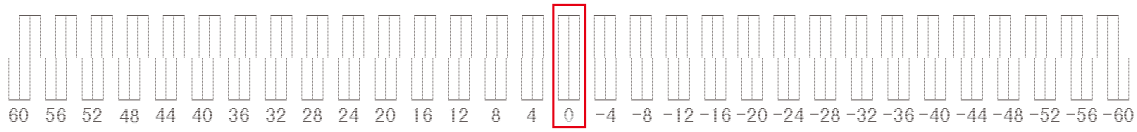
Set Y-speed: slow/ normal/fast optional

Feed length: auto feed as the length setup after printing

(2). **Calibration**

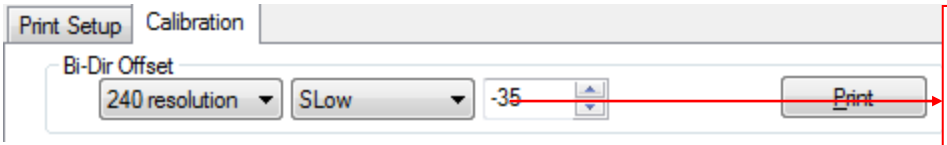


① Bidirectional offset calibration: check if the bidirectional offset print was in the same origin start position (slow/medium/fast optional), three speed modes needed to be calibrated.



Based on “0”, as a whole straight vertical line, OK.

As shown above, if the straight line stays in position “-8” instead of “0”, a calibration is required as the following diagram shown:

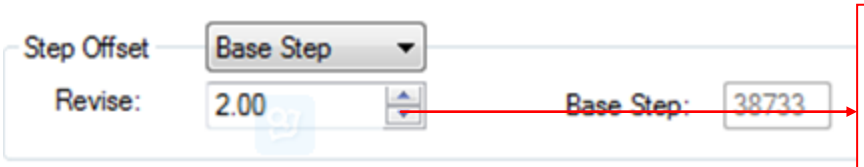


-8 based on the actual value in the bar, then press “Print” to check the print till the correct diagram in position “0”.

②Step offset calibration: calibrate the base step offset first, press "Print" as the diagram below: (do the same procedure for 2PASS、3PASS、4PASS、6PASS、8PASS):

Based on "0", as a whole straight horizontal line, OK

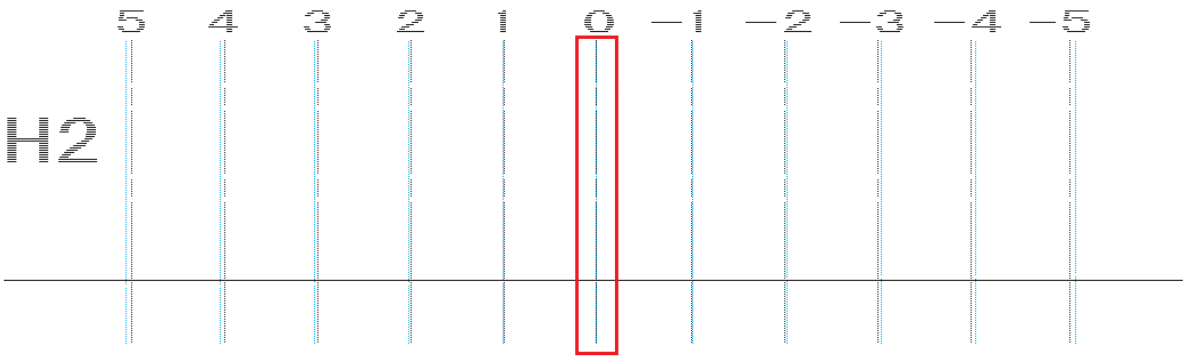
As shown above, if the straight line stays in position "3" instead of "0", a calibration is required as the following diagram shown:



+3 based on the actual value in the bar, then press "Print" to check the print till the correct diagram in position "0".

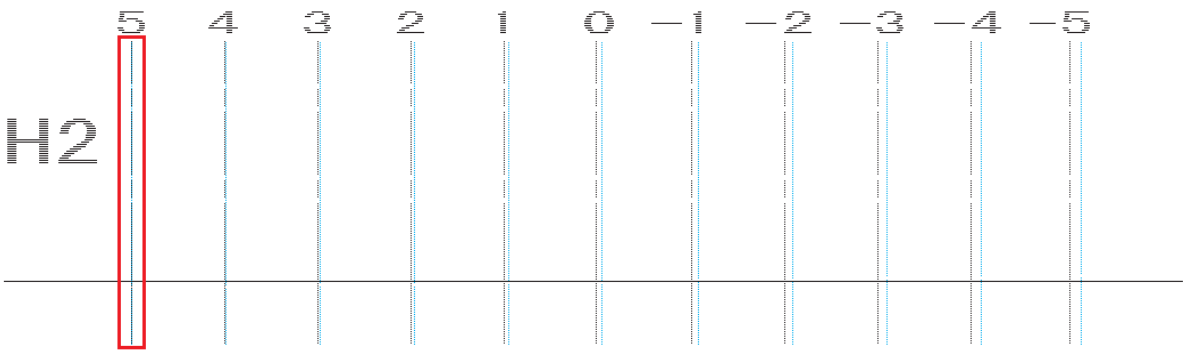
③Color offset diagram:

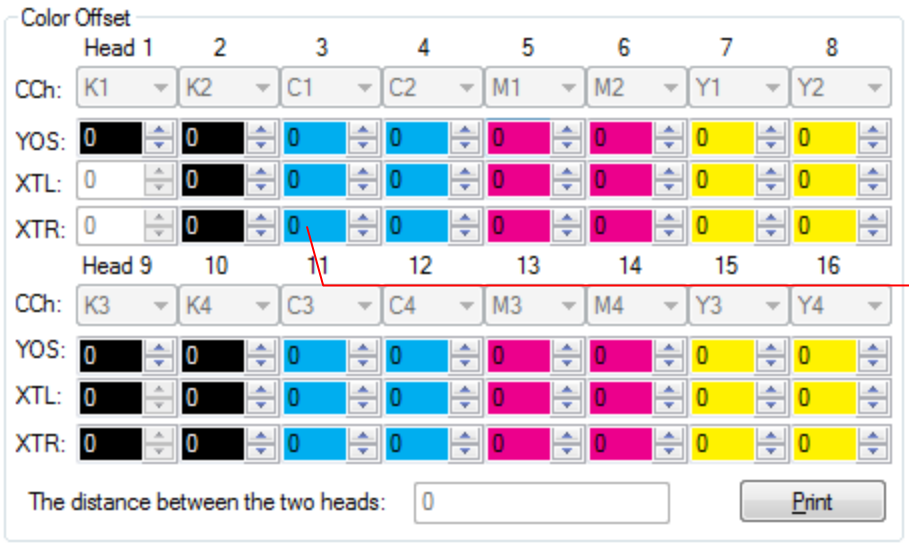
For example, H2 to the right:



When cyan line totally overlaps the black line in the position "0", calibration OK.

As shown below, if the straight line stays in position "5" instead of "0", a calibration is required as the following diagram shown:



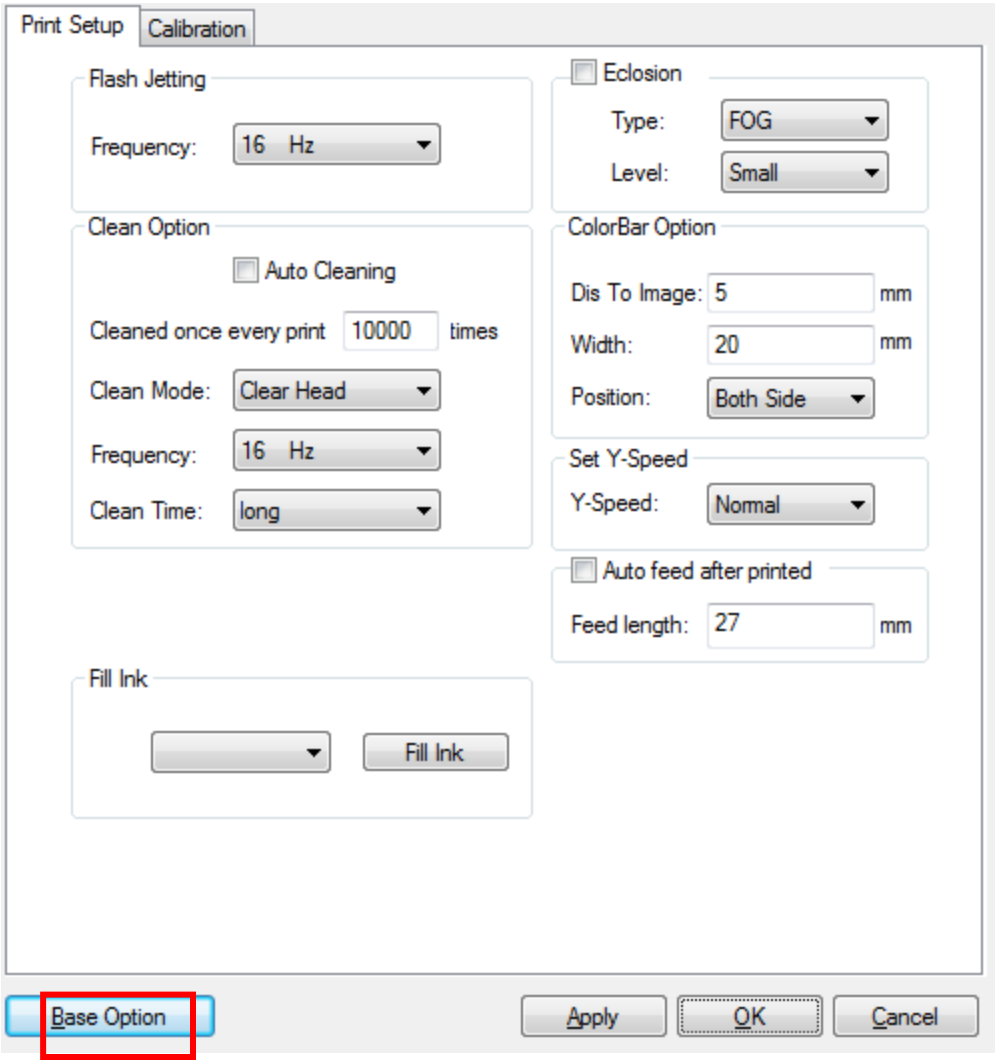


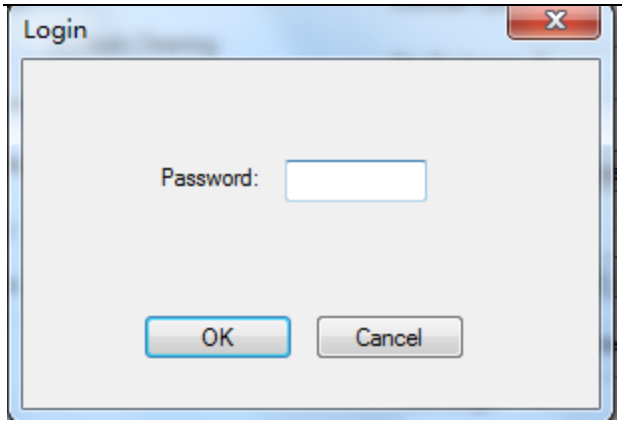
XTR-X to right, +5 based on the actual value in the bar, then press "Print" to check the print till the correct diagram in position "0".

Do the same procedure for the other H1/H2/H4/H5…

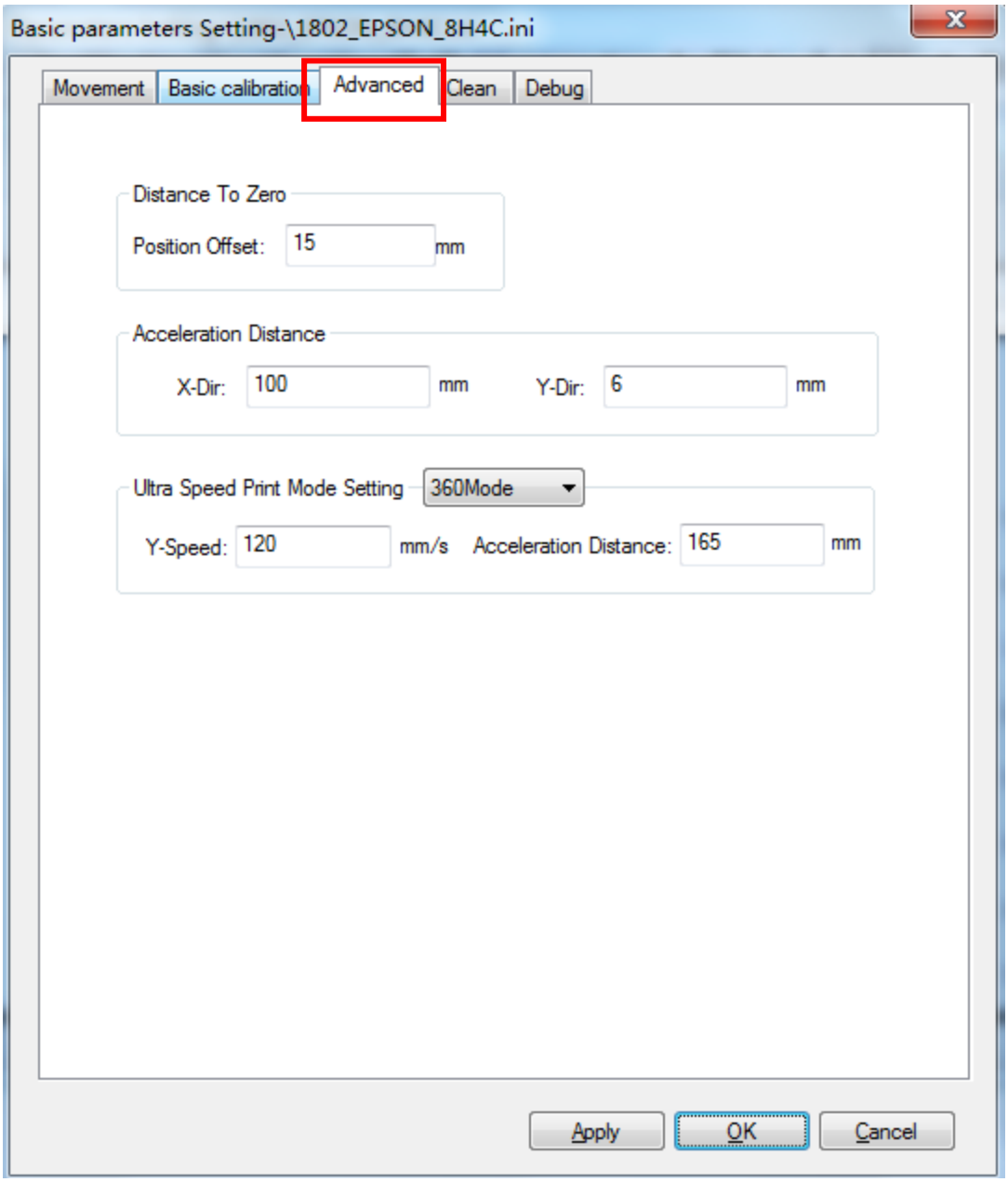
Ⅵ. Engineer Setting

Input password by "123" for entering the base option as shown below:





(1) Advanced options:



① Distance to Zero: Setup start position offset to origin position

② Acceleration distance

③ Ultra speed print mode setting

Ⅶ. ERROR CODE

PrintExp Error code

Error Code	Error Descriptions	Solutions
30014	Failed to initialize the printer	1. Check if the printer is power on. 2.Check USB cable connection. 3. Check the boards
30015	Driver release abnormal	1. Check if the printer is connected properly
30019	Reset motion abnormality	1. Check the motor module 2. Check if the printer is connected properly 3. Restart the software
30020	Stop motion abnormality	
30021	Wait-to-stop movement timeout	
30022	Failed to read the carriage position	1. Check if the printer is connected properly 2. Restart the software
30023	Failed to read the motion status	
30024	启动指定方式运动异常	1. Check if the config file is matched 2. Check if the printer is connected properly 3. Restart the software
30025	Motor can't execute the next motion	
30026	Failed to setup the spray jetting	
30027	Failed to read the spray jetting	
30028	Print thread abnormal	1. Check if the config file is matched 2. Check if the printer is connected properly 3. Restart the software 4. Restart the hardware
30033	Move distance overlaps the range.	1. Setup the move distance value smaller 2. Check if the config file is matched 3. Restart and check if the software version matches up the hardware version 4. Restart the hardware
30034	Parameters initialization error	1. Check if the "ini" config file is matched 2. Restart the software
30035	Mainboard optical fiber receiving anomalies	1. Check if the mainboard optical fiber interface connected well 2. Restart the hardware
30036	Carriage board optical fiber receiving anomalies	1.Check if the carriage board optical fiber interface connected well 2. Restart the hardware
30042	Data written to board error	1. Check if the printer is connected properly 2. Check the signal light on the boards 3. Restart the software 4. Restart the hardware
30047	1pass data read error	1.Please contact with the software provider
30048	Incorrect model	1.Please select the correct config file
30049	The mainboard optical fiber module abnormal	1. Please contact the software provider
30050	The carriage board optical fiber module abnormal	
30051	Position of carriage overlaps the print start position	1. Please replace the X-motor driver
30052	The YDPI of the current image is too small	1. Please Re-rip the image
30053	Speed of the carriage is too fast	1.Please lower the speed of carriage
30054	LCD panel connection abnormal	1. Please turn it off and reinstall the LCD panel then turn it on

30055	Paper sensor abnormal	1. Please replace the paper sensor
30056	Failed to create mail slot	1.Please contact with the software provider
30120	Function input parameter error	1. Check if the config file is matched. 2. Restart the software
30121	Print length error	1. Setup the margin value smaller 2.Setup the image size smaller
30122	Memory allocation error	1. Check whether the PRN file is normal 2. Check whether the configuration file is macthed
30123	File not found or File error	
33001	Mainboard optical fiber receiving anomalies	1. Please contact with the software provider
33002	Carriage board optical fiber receiving anomalies	
33003	Missing data happens when printing	
33004	The origin limit signal of carriage board is triggered	
33005	The origin limit signal of mainboard is triggered	
33006	The end point limit of carriage board is triggered	
33007	The end point limit of mainboard is triggered	
33008	1PASS printing abnormal	
39000	Illegal access memory or abnormal process	1. Check if the config file is matched 2. Check if the printer is connected properly 3. Restart the software 4. Restart the hardware