

FUJIMA

CP12 TIJ

USER MANUAL

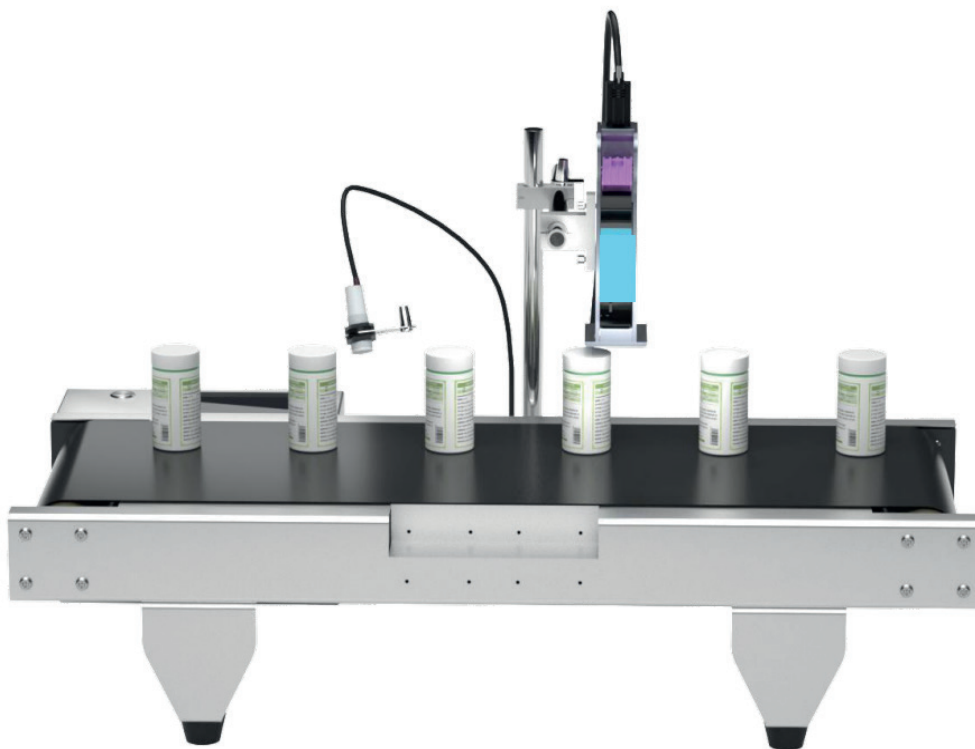


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1. **SAFETY**

Do not attempt to repair or modify the machine yourself. If the fault occurs and the method in this manual still cannot be solved, please turn off the machine, unplug the power supply, and contact engineers.

1.1. **CONSIDERATIONS FOR A PROPER OPERATION**

- Before starting the machine, check whether the cables printed on each end are loose, and ensure that the cable screws are tightened.
- Do not remove or insert the host end or nozzle end of a print cable when the cable is live.
- Avoid the machine in the following environment: static electricity, strong electromagnetic, high temperature, high humidity, vibration, dust.
- Avoid using the same group of power supplies with high-power motors and other devices that are easy to cause power interference.
- When replacing the ink cartridge, cancel the current printing. Do not remove or insert the ink cartridge during printing.
- Turn off the device when inserting or removing a print cable.
- When cleaning the machine, please unplug the power plug.
- During maintenance, be sure to cut off the power supply to avoid the risk of electric shock.
- Unplug the machine when not in use for a long time.

2. **INTRODUCTION**

Inkjet conveying machine, based on inkjet and transport in an integrated machine. It can cooperate with various packaging lines and production linestoprint high-resolution and high-quality text, numbers, bar codes, pictures and other variable data.

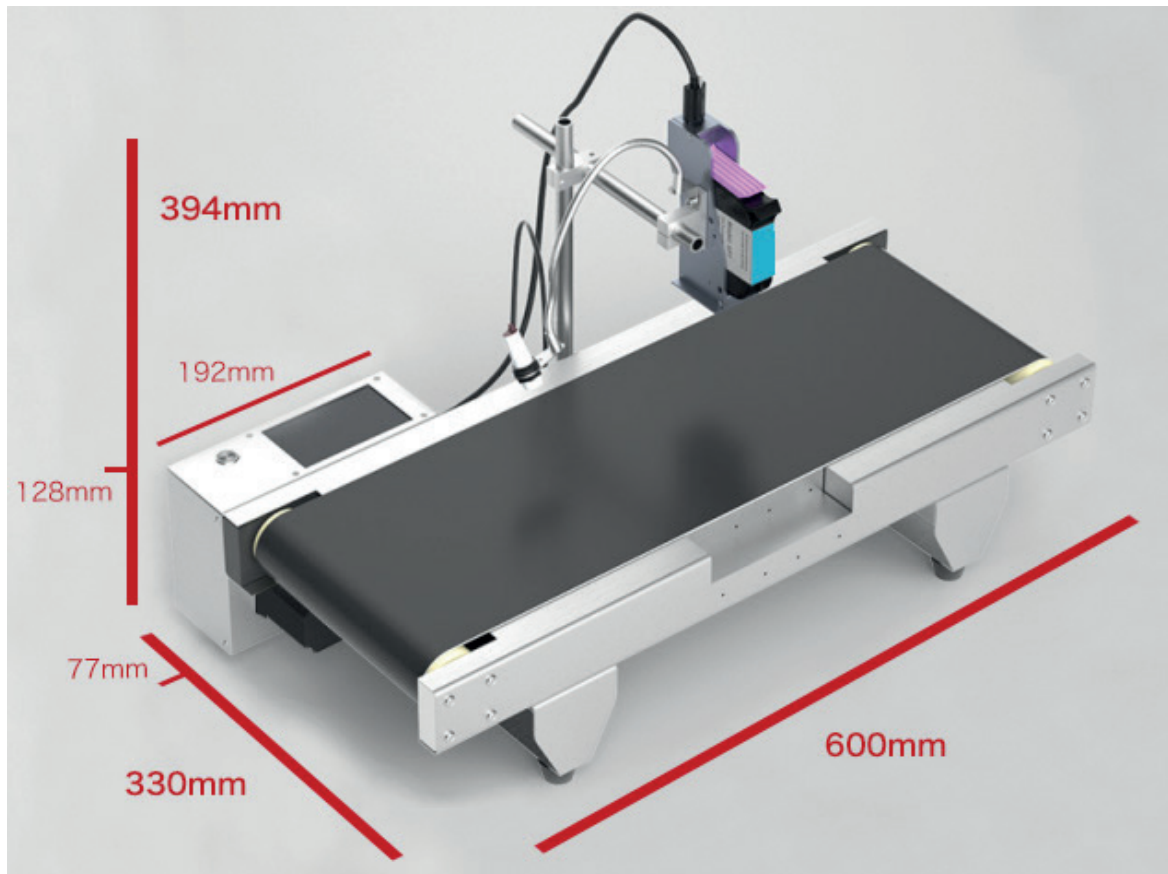
- ◆ Fully variable data printing, you can print variable text, bar code,time,counter, picture and database.
- ◆ Can print a variety of bar codes, covering widely used bar codeformats.
- ◆ Metal shell, combined with conveyor belt, industrial design,moreconvenient operation.
- ◆ HP original driver board for higher print quality.
- ◆ Wireless sprinkler certification technology, more reliable, more intelligent.
- ◆ 4.3-inch capacitive screen for easier operation.

2.1. TECHNICAL PARAMETERS

MODEL	Fujima CP12 TIJ	
PRINT SYSTEM	HP TIJ2.5	
NOZZLE TYPE	TIJ Hot foam nozzle	
PRINT HEIGHT	1 head half an inch	12.7mm
	2 head half an inch	25.4mm
	1 head an inch	25.4mm
	2 heads and inch	50.44mm
CODING DISTANCE	2-5mm is best	
PRINTING ACCURACY	150 × 300DPI/200 × 300DPI/300 × 300DPI	
USABLE CARTRIDGE	Dry, oily, water-based, UV cartridges	
PORT	USB	
DISPLAY SCREEN	4.3 inches	
LANGUAGES SUPPORTS	Chinese, English, Japanese, Korean, Spanish and others.	
PRINT DATA TYPE	Text, counter, time and date, bar code, picture, database.	
BAR CODE TYPE	Bar code : BAR128/BAR39/ BAR93/EAN13/UPC	
	QR code : QRCOD/DataMartix	
POWER SOURCCE	110-220VAC 50/60Hz	
POWER	60W	
OPERATING TEMPERATURE	Temperature 5°C to 35°C /Humidity 10% to 90%	
CONVEYOR BELT SIZE	600 × 200mm/1000 × 200mm/1500 × 200mm	
MAXIMUM LOAD BEARING	5kg	
SIZE (length × width × height mm)	600 × 330 × 128mm	
WEIGHT	8.66kg	

2.2. COMPONENTS

- **Host Machine**



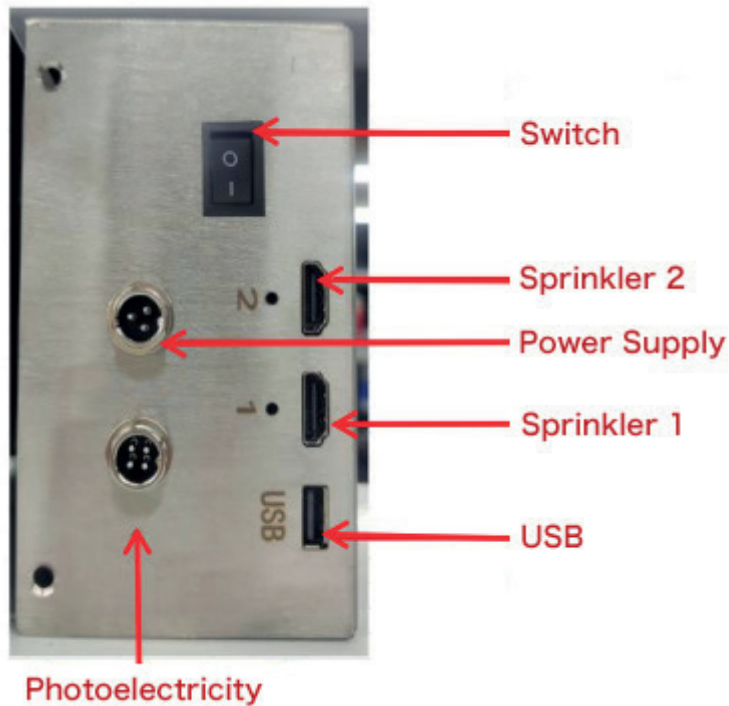
- **Printhead interface:** Connect the print head through a print cable.



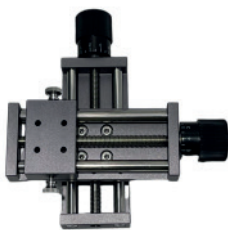
- **Photoelectric interface:** When the printed object is detected, the electric eye sends a trigger signal to the inkjet printer, and the inkjet printer controls the nozzle to print according to the received signal.



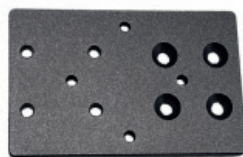
- **USB interface:** Users can insert the USB flash drive to import the edited template files, databases, pictures... Only need to put the template files, data, pictures, etc., in the root directory of the USB flash drive.
- **Power supply:** The working power supply is 24V, 2.5A.
- **Power switch:** switch the machine on and off.
- **Conveyor switch:** Press the conveyor switch button to start or stop the conveyor.



- Optionals:



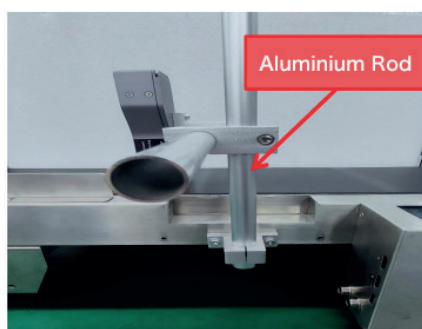
XY Fine adjustment

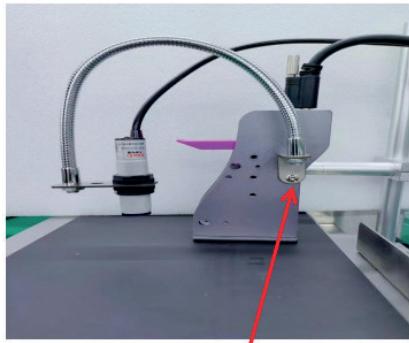


Fine adjustment

M4 x 8
Countersunk Head
ScrewM3 x 8 Head Hex
Socket Screw

- Simple installation view:





Photoelectric Installation Site



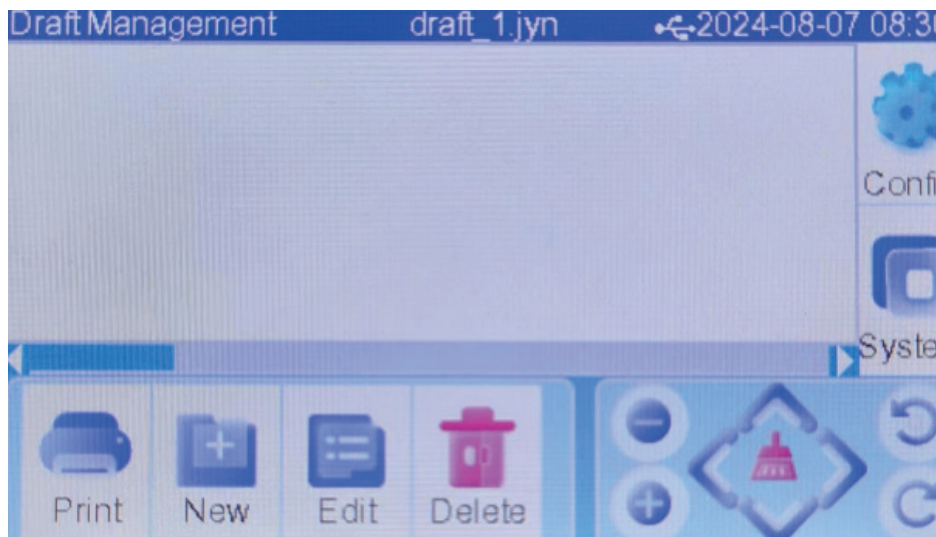
All parts installed

3. OPERATION

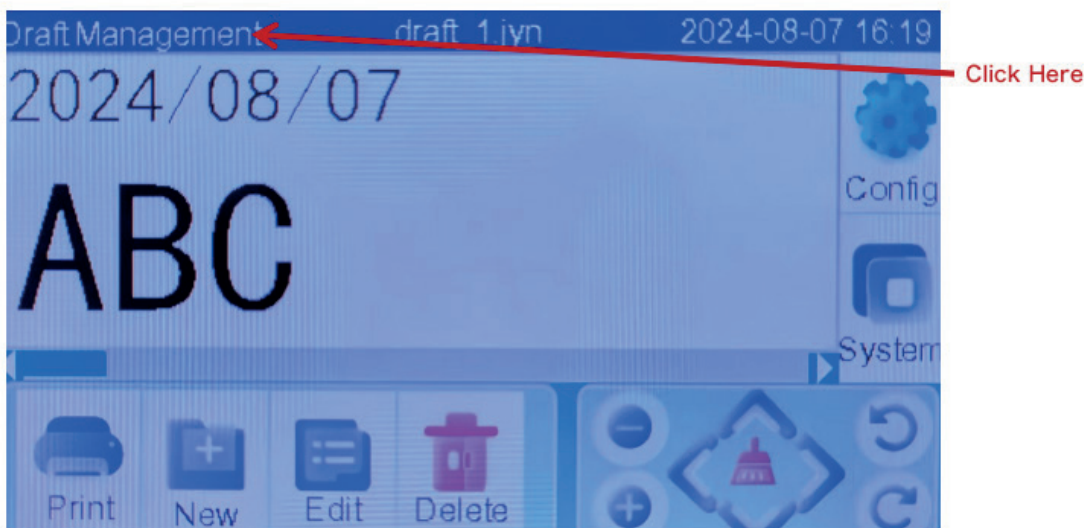
The printer software has been installed before the factory.

3.1. MAIN INTERFACE

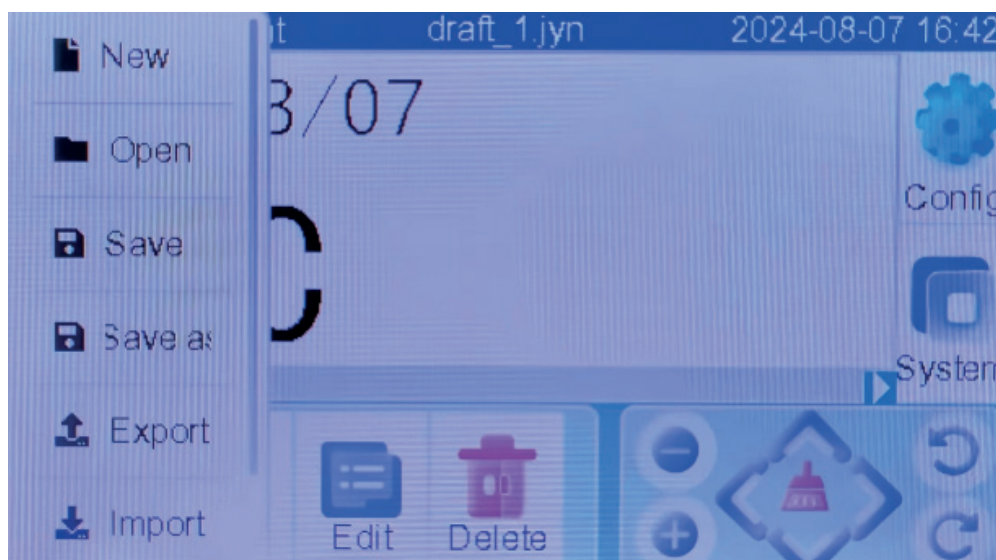
After the system starts, the page for editing the last printed template is displayed.



3.2. MANAGEMENT OF BLUEPRINTS

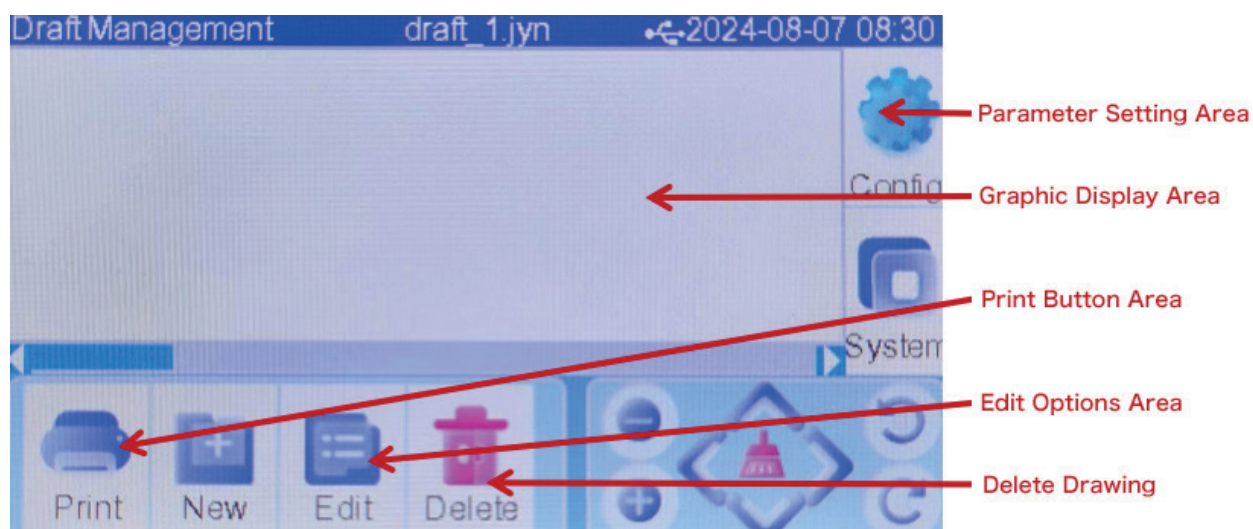


Click on the drawing management area to manage the drawing.



- **New:** Add drawings.
- **Open:** Open the saved drawing.
- **Save:** Save the drawing displayed on the current page.
- **Save as:** Save the drawing separately.
- **Export:** You need to insert the USB flash drive and export the drawing content of the USB flash drive.
- **Import:** Need to insert the U disk, import the U disk drawing content.

3.3. EDITING INTERFACE



3.3.1 Graphic Display Area

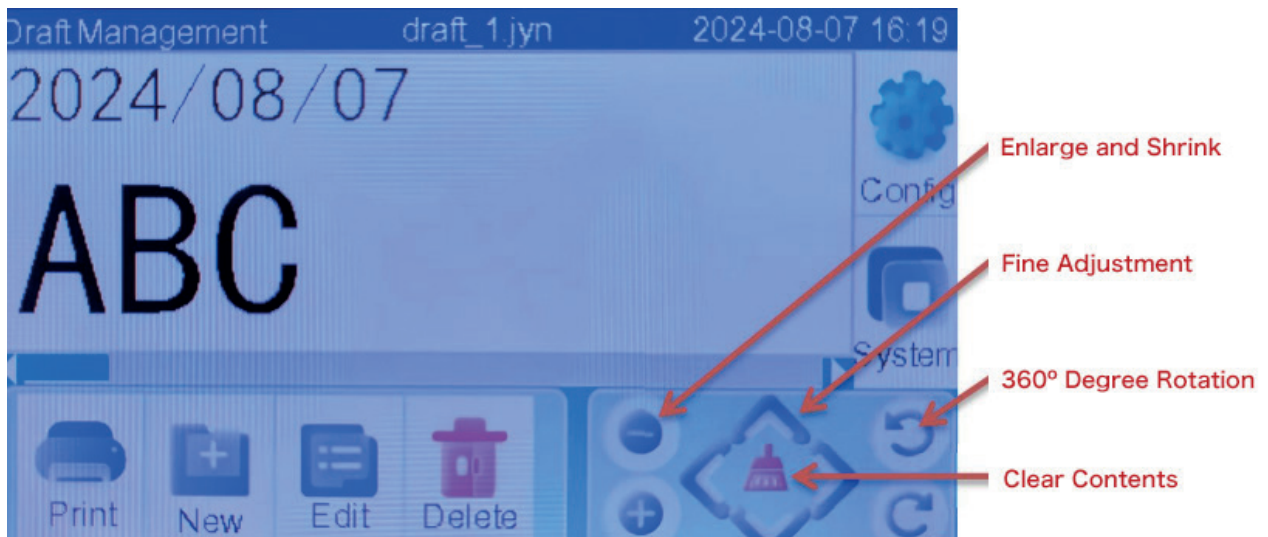
The graphics display area displays the graphics of the current printed template.

3.3.2 Print Button Area

Click Print to enter the print interface and print the information of the current graphics display area.

3.3.3 Edit Options Area

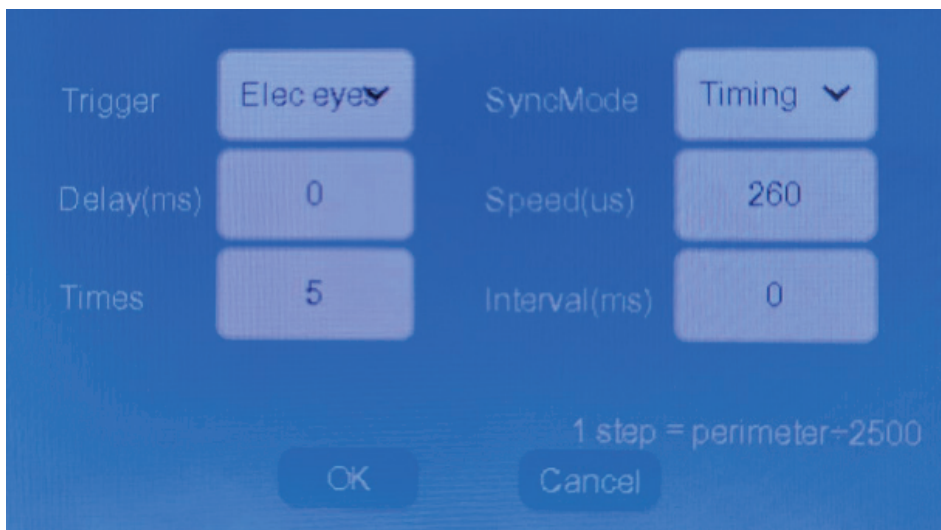
When selecting a piece of information in the graphics display area, edit the options area as shown below:



- **Print:** Print the current drawing content
- **Newly increased:** Click Add to add text, time, pictures, counters, barcodes, QRcodes, databases and other files as needed.
- **Redact:** Select an information and click Edit to edit and modify the information content.
- **Delete:** Select a message and click Delete to delete the message.

3.3.4 Parameter Setting Area

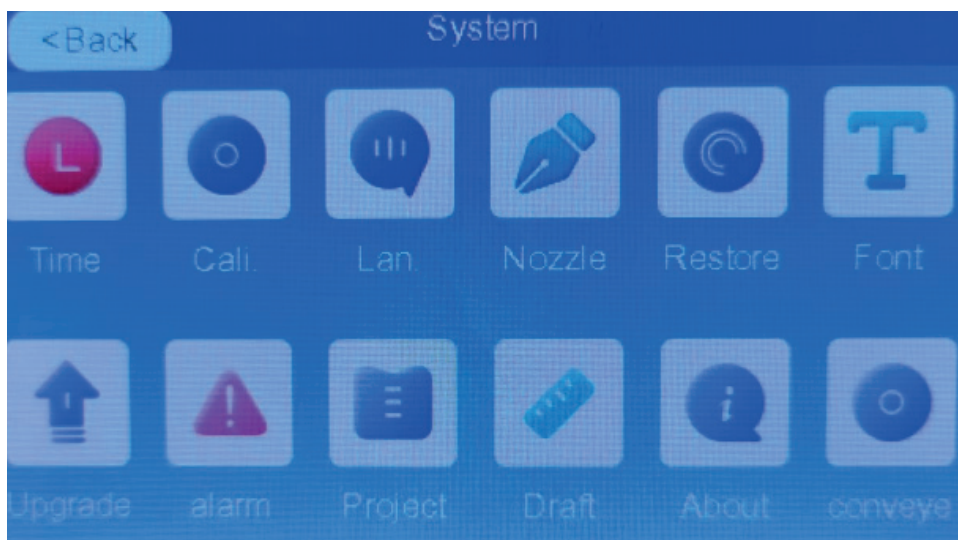
3.3.2.1 Set Up



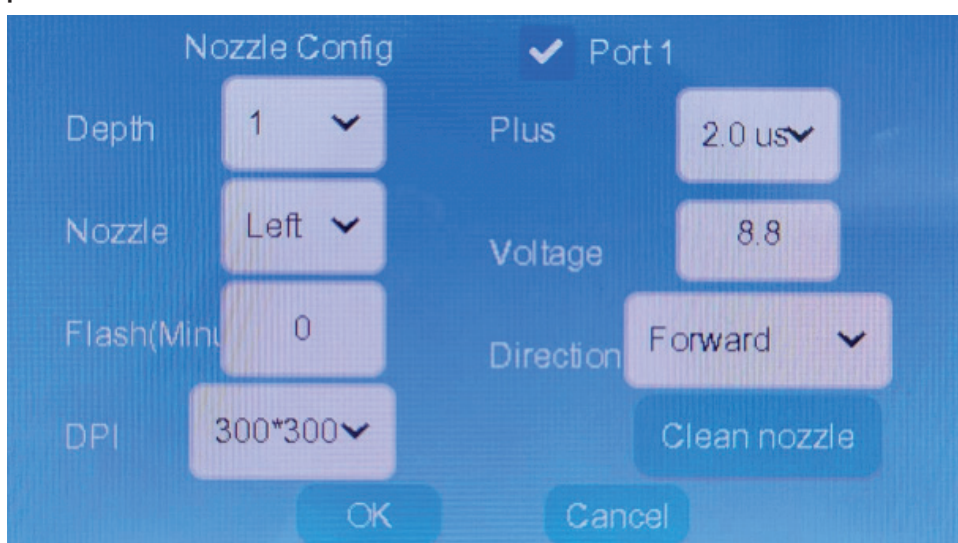
- **Trigger mode:** Select photoelectric trigger indicates that when the photoelectric senses the product trigger signal to the inkjet printer for printing, select encoder interval period printing means that the trigger signal is printed by turning the encoder.
- **Synchronization mode:** Select encoder synchronization to indicate that the encoder rotates when the pipeline is running. Select timing synchronization to indicate that the photoelectric induction product is measured through the delay time.
- **Delay time:** This value indicates how long each nozzle starts printing after getting the trigger signal, and the larger the value, the later the printing time.

- **Print speed:** This value represents the ink jet speed of the nozzle and can be adjusted according to the conveyor speed.
- **Printing times:** The number of continuous printing times of drawing information and the spacing distance of each drawing information can be selected according to the requirements, which is actually the continuous printing times of a trigger signal.

3.3.2.2 System

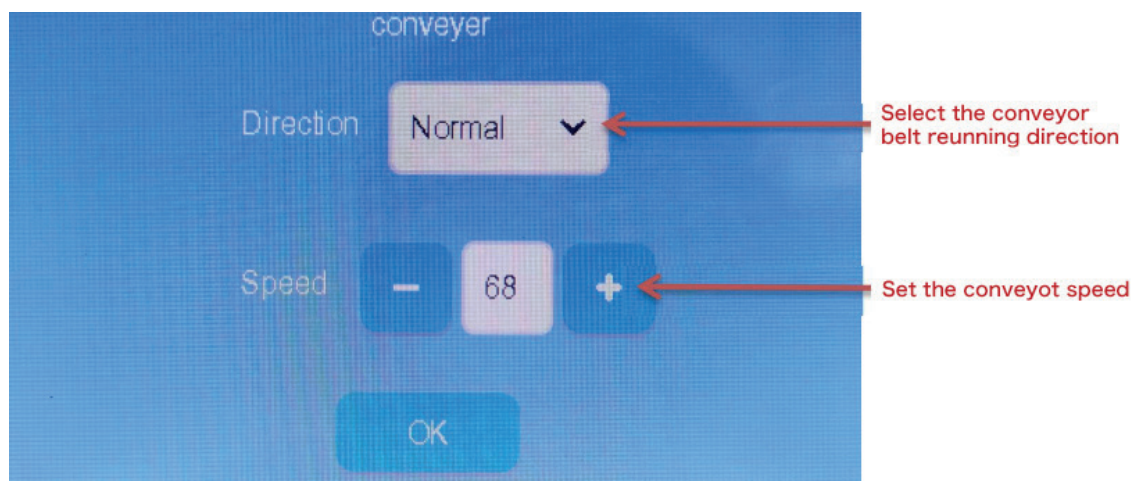


- **Display Time.**
- **Calibrate Screen:** When the screen click is not accurate and sensitive.
- **Language.**
- **Nozzle Setting:** Nozzle setting: According to the use of the nozzle and the direction of the installation position to adjust the nozzle direction, stitching mode and printing direction, blackness, voltage and pulse width.



- **Restore:** To factory Settings.
- **Font:** Default, bold and dot matrix can be selected, if you need other fonts can be imported through the U disk.

- **Upgrade:** When software update is needed, it can be upgraded via USB flash drive.
- **Alarm:** Set the ink content below a certain value, with the alarm to issue a warning.
- **Process:** The system has been set before delivery.
- **Drawing paper:** Set the width of the drawing.
- **Off:** You can view the software version.
- **Conveyor:** Set the forward or reverse operation of the conveyor belt and the running speed of the conveyor belt.



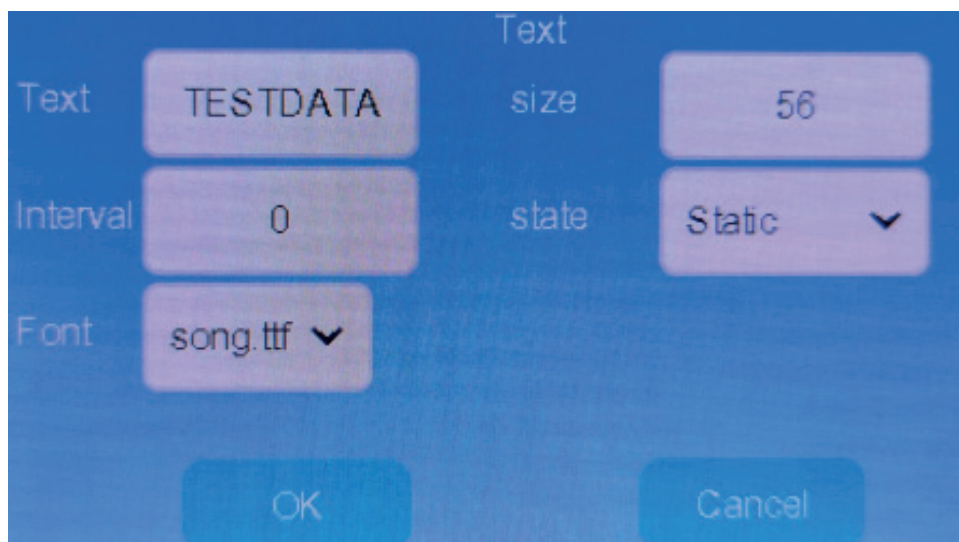
3.4. NEW INTRODUCTION

Click New in the edit option area to add text, time, pictures, counters, bar codes and QR codes and other files to edit as required, as shown below:



3.4.1 Text Editing

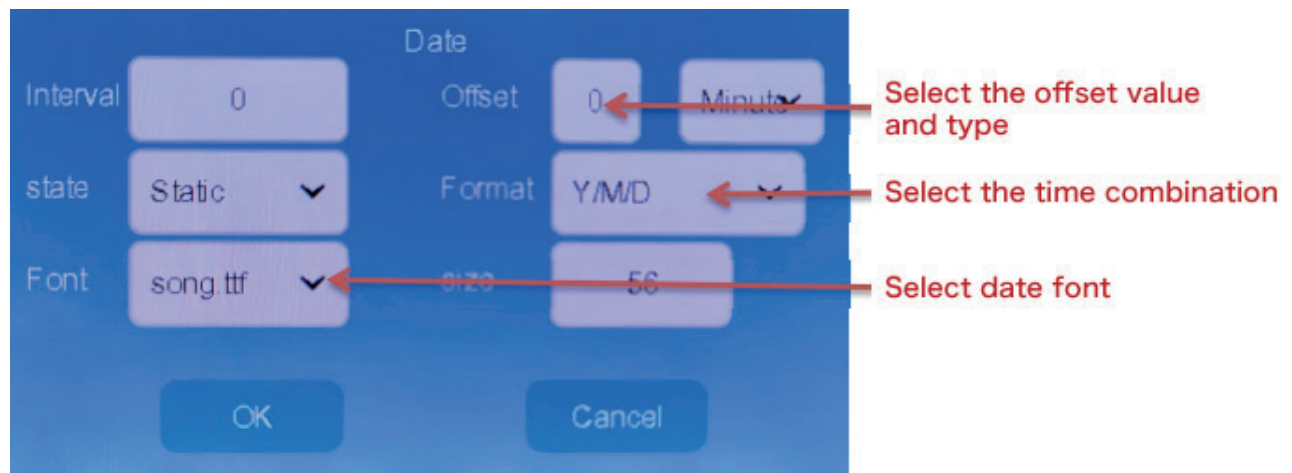
Click Text Edit to modify or add Chinese, English, punctuation and other content in the input box, as shown below:



3.4.2 Time Editing

Click Time to edit the current year/month/day information appears by default in the graphics display area.

Click the year/month/day information and click Format to select the time format and offset.



Click second to appear multiple offset types: minute, hour, day, week. On the left, you can choose to increase or decrease the offset value.

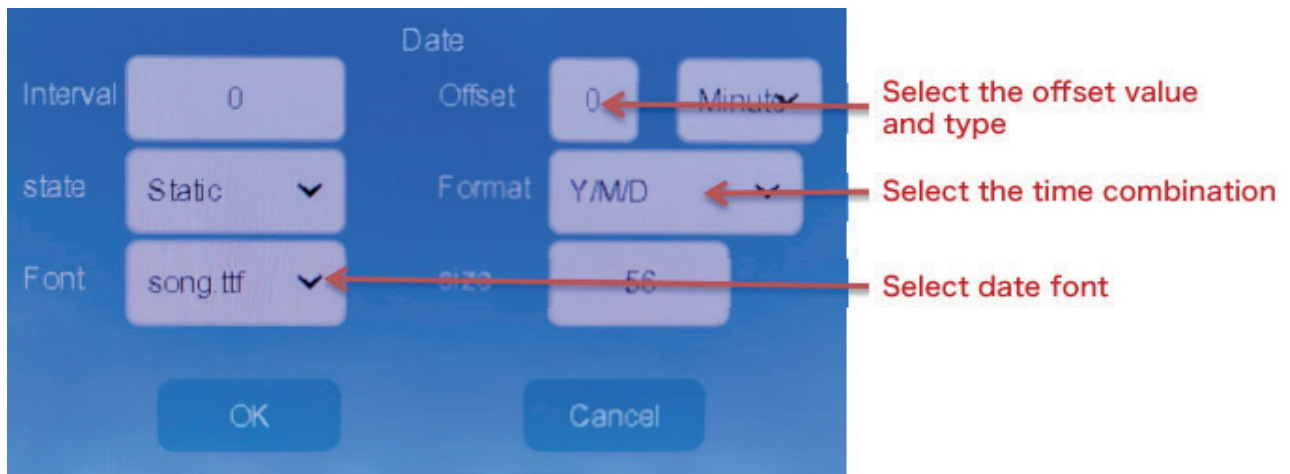
There are many specifications for selecting the time format:

- Y- represents the year
- M- represents the month
- D- represents the day
- H- represents the hour
- m- for minutes
- s- for seconds

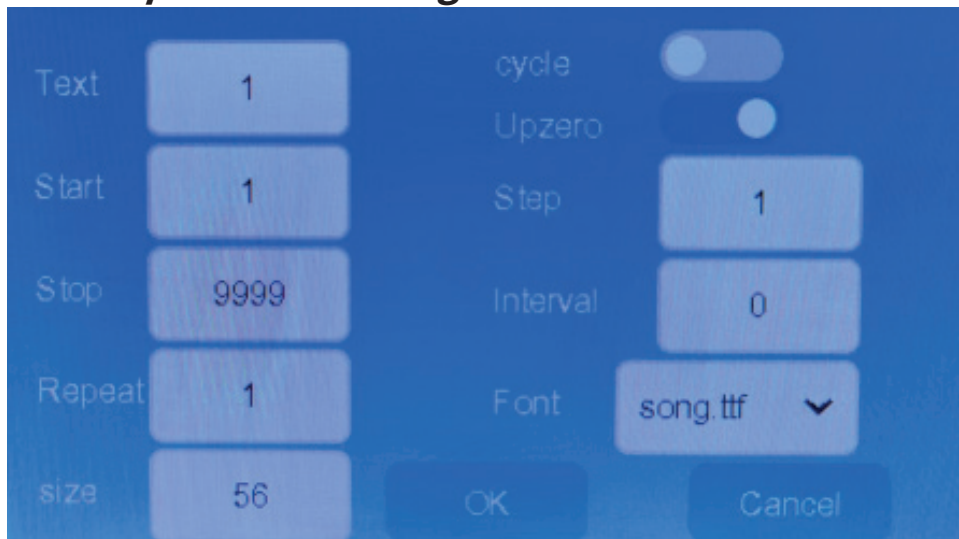
3.4.3 Static Graphic Code

Click the static graphic code to enter the information in the input box, the system automatically generates the two-dimensional code, click the format to select the graphic code format.

- **Text:** Contents of the drawing
- **Format:** Select barcode, QR code and other types, such as optional: QR COD, DataMartix, BAR128, BAR39, BAR93, EAN13, UPC.



3.4.4 Dynamic Counting

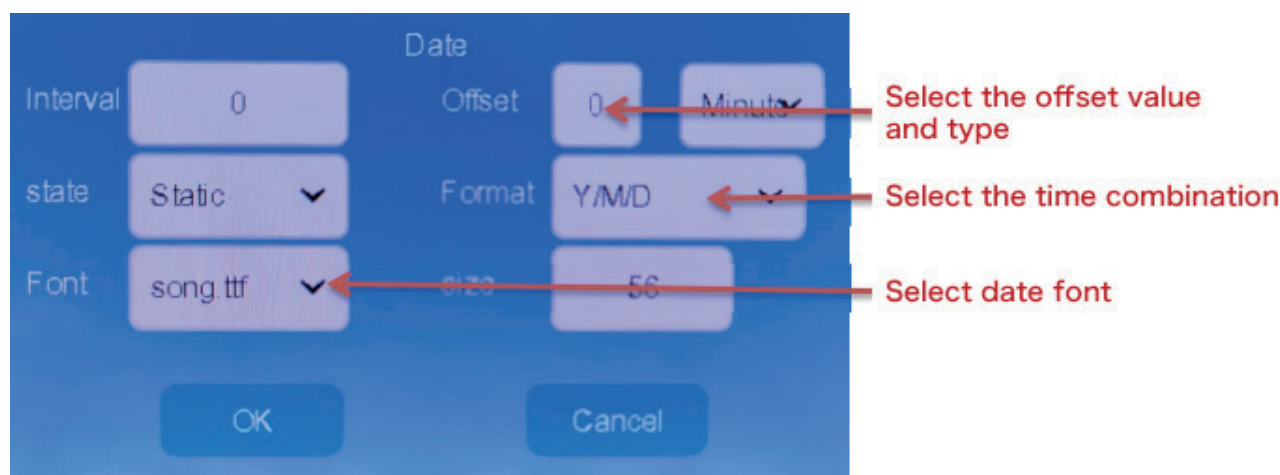


The current value refers to the value of the current graphic display area. The start value refers to the value of the current print. The start value must be greater than the current value:

- **Text:** contents of the drawing.
- **Start:** Print with the current value.
- **Stop:** refers to the numerical value of the end of the printing, which can be from 9 to more than 9 combinations.
- **Repeat:** refers to the number of times each value is repeated.
- **Word:** Sets the font size.
- **Loop:** Loop printing.
- **Zero filling:** means to fill the first zero of a value according to the number of digits of the end value.
- **Number of steps:** The number of steps required from the previous value to the next value.
- **Spacing:** distance between fonts.
- **Font:** Select a count font.

3.4.5 Dynamic Graphic Code

Dynamic graphic code contains bar codes and two-dimensional codes, which can be embedded with text, time, and dynamic counting functions. After determining the data, the system defaults to the QR code. You can click the QR code to select the required barcode and QR code type.

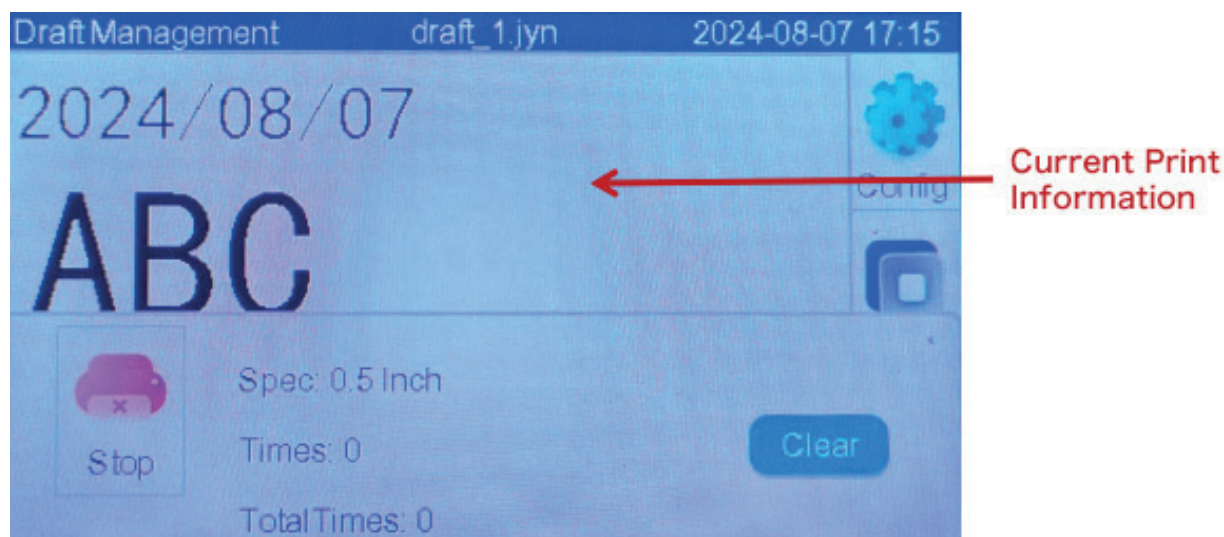


3.4.6 Import Picture

The required pictures are saved in the root directory of the USB flash drive in advance, and then insert the USB flash drive into the inkjet printer, click Import pictures, select the corresponding pictures, and click Import.

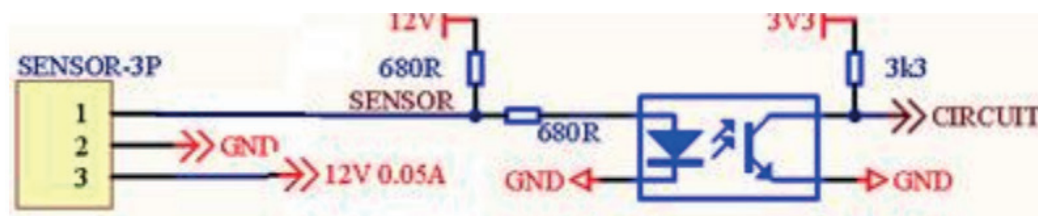
4. PRINT INTRODUCTION

- **Stop printing:** During the printing process, you can stop printing and switch directly to the editing interface.
- **Number of times:** Displays the number of consecutive printing times that trigger a current printing information.
- **Total number:** Displays the total number of continuous printing information.
- **Return to zero:** Click Return to zero to clear the current print count of 0.



5. ELECTRICAL INTERFACE

The eye supply voltage is 12V, the current is not more than 150 ma.



6. CARE AND MAINTENANCE

6.1. INK TIP MAINTENANCE

When the printer is not used for more than half a month or more, it is recommended to remove the ink head from the printer in order to ensure good subsequent use. Remove the protective cover from the machine and put it in a place where it is not easy to fall, and keep it for the next printing.

6.2. PRINT HEAD CLEANING

▪ **Manual cleaning:** When the printer is not used for a long time (more than 15 days) and the ink head is forgotten to be removed, it is necessary to clean the ink head when printing for the first time, turn off the printer power switch, open the ink cartridge holder lock to remove the ink cartridge, and gently wipe the spray hole of the print head with a soft, fiber free, chemical additive free, non-ionizing fabric, as shown below:



▪ **Automatic cleaning:** Click the cleaning nozzle in the nozzle information on the machine display to realize the automatic cleaning of the ink cartridge.

6.3. CARTRIDGE INSTALLATION REPLACEMENT

Note: This operation must be performed in the printer power off state!

1. Disconnect the power supply.
2. Hold the cartridge holder with one hand and open the fixing splint on the cartridge with the other hand (pull it up).
3. Take out the old ink cartridge.
4. Unpack the cartridge and take out the new cartridge.
5. Hold the ink cartridge holder with one hand, and insert the new ink cartridge into the ink cartridge holder with the other hand (note: the printing head is inside).
6. Fasten the ink cartridge fixing splint.
7. Turn on the machine power switch.

7. COMMON FAULTS AND SOLUTIONS

BREAKDOWN	POSSIBLE CAUSE	SUGGESTED SOLUTION
The machine cannot be turned on or run	Power supply not connected	1. Check whether the power switch is on. 2. Check whether power cables are correctly connected. 3. Check whether the indicator of the power adapter is on.
Conveyor belt not running	Control program error	Shut down and wait 10 seconds to restart.
The print data is not clear	Print head orifice blocked or ink used up	1. Manually remove the cartridge and shake the cleaning print head. 2. Replace the ink cartridge.
The image position moves up and down or tilts	The inkjet printer is not placed in place	Put the inkjet printer in place as required.

Note: If the above methods still do not solve the problem, please contact your supplier.