



DC800 Series Inkjet Printer

User manual V1.0

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Summary

| | |
|--------------------------------------|----|
| General | 5 |
| Intro..... | 5 |
| Inspection..... | 5 |
| Warning..... | 6 |
| Caution | 6 |
| Description | 8 |
| Parameter | 8 |
| Printer external dimensions | 9 |
| Nozzle appearance | 11 |
| Ink schematic | 12 |
| I/O interfaces and definitions | 13 |
| Main interface..... | 14 |
| Keyboard introduction | 15 |
| Operation | 16 |
| Turn on/off the printer..... | 16 |
| Turn on the printer | 16 |
| Open ink line | 16 |
| Stop printing..... | 17 |
| Power off..... | 17 |
| Login management..... | 18 |
| System language and date time | 19 |
| Message search and preview | 20 |
| Cumulative print count..... | 20 |
| Fault and warning information | 21 |
| Running parameter..... | 23 |
| Parameter setting..... | 24 |
| System parameter setting..... | 24 |
| Network Settings | 25 |
| File management | 26 |
| Create message/logo file..... | 26 |
| Edit message/logo file | 27 |
| Delete message/logo file | 27 |
| USB external storage management..... | 27 |
| Fonts management | 30 |
| Screen setup..... | 30 |
| Brightness setting..... | 30 |
| Screen calibration..... | 30 |
| Screen saver | 30 |
| Separator setting..... | 31 |
| Print ACK code..... | 31 |
| Field editing..... | 32 |
| Add field | 32 |
| Create fixed text | 32 |
| Create other language text | 33 |
| User field..... | 33 |
| Date/time..... | 34 |
| Expiry..... | 35 |

| | |
|-------------------------------------|----|
| Logo..... | 36 |
| Counter | 36 |
| Barcode | 37 |
| 2D code | 39 |
| Shift code..... | 40 |
| External..... | 41 |
| Delete | 42 |
| Message parameter | 42 |
| Save and copy | 44 |
| Return | 45 |
| Graphics editing | 46 |
| Main screen | 46 |
| Operate..... | 46 |
| Tracing point | 46 |
| Cursor movement..... | 46 |
| Handy tracing tool | 47 |
| System setup and configuration..... | 49 |
| System setting..... | 49 |
| Print setting..... | 49 |
| Advanced setting..... | 50 |
| Device setting..... | 50 |
| Password management..... | 50 |
| Valve testing and calibration | 51 |
| System control | 52 |
| Factory data reset | 53 |
| Maintenance | 54 |
| Printer maintenance | 54 |
| Visual inspection | 54 |
| Cleaning..... | 55 |
| Daily troubleshooting..... | 56 |

General

Intro

Welcome to read the DC800 series CIJ printer user manual. This manual is provided for users of inkjet printers and contains the following contents:

Overview -

Inkjet printer safety, risk information, technical information, including inkjet printing principle introduction.

Main component -

The main components of inkjet printer are introduced.

Basic operation -

Complete instructions to get you started quickly.

Menu functions and shortcut keys -

Overview of the inkjet printer user interface.

Field editing -

Complete instructions on how to create and edit field using the

Field editor.

Parameter setting and maintenance -

Information about software configuration options for inkjet printers, maintenance steps.

Troubleshooting -

Diagnostic and troubleshooting steps.

Inspection

Power supply

Ensure that the power supply is within the range indicated on the label next to the source socket of the inkjet machine. If the voltage rating is different, consult your local supplier before using the printer.

Use only the power cable provided by the printer.

Ground connection

The device must be connected to an AC power supply with a ground lead that complies with IEC requirements or applicable

local regulations. If the protective grounding cable is interrupted or broken, the device is in danger.

Warning



Warning

Lethal voltage. When the device is connected to the power supply, there will be a fatal voltage. Unless it is absolutely necessary to operate the printer, disconnect the printer's power supply before removing the cover or attempting to perform maintenance or repair activities, which could result in death or personal injury.

Dispose of ink. Always wear protective clothing and rubber gloves. Always wear safety goggles with a guard or mask. If any ink or solvent contaminates the skin, wash it off immediately with soapy water.

Fire and health hazards. Inks, solvents and cleaning agents are volatile and flammable. They must be stored and disposed of in accordance with local regulations. Do not smoke or use open flames near these items. Remove these items immediately after use with soaked cotton paper or soft cloth. Dispose of all these items in accordance with local regulations.

Steam is dangerous. Prolonged inhalation of solvents or cleaning agent vapors can cause lethargy and symptoms similar to alcohol poisoning. Use only in open, well-ventilated areas.

Danger of poisoning. It can cause poisoning if inhaled. Do not drink. Seek immediate medical attention if ingested.

Caution



Caution

Excessive use of solvents or cleaning agents. In cases where cleaning agents are used when the printer is down, repeated stopping and starting of the inkjet can result in excessive use of solvents or cleaning agents and can result in "*Mixer Tank High*" errors and low ink viscosity.

Stop quickly. After a quick stop, the printer should not stay in this state for too long, because the quick-drying ink will make restarting difficult.

The device is damaged. Do not connect or remove any connector on the inkjet printer when it is powered on, otherwise it may damage the inkjet printer.

Cleaning materials. To avoid damaging the inkjet parts, clean only with a soft brush or cloth. Do not use high-pressure air, waste cotton thread or frosted materials.

The printhead is damaged. Before performing a printhead cleaning, make sure that the cleaner is consistent with the ink used, or you may damage the printhead.

The nozzle is damaged. Before starting the printer, the nozzle must be completely dry, otherwise it may damage the nozzle.

The printer is overheating. Report all signs of overheating to the maintenance engineer.

Data is lost. When you select the Delete All print information option, all information except *"TEST MESSAGE"* will be deleted.

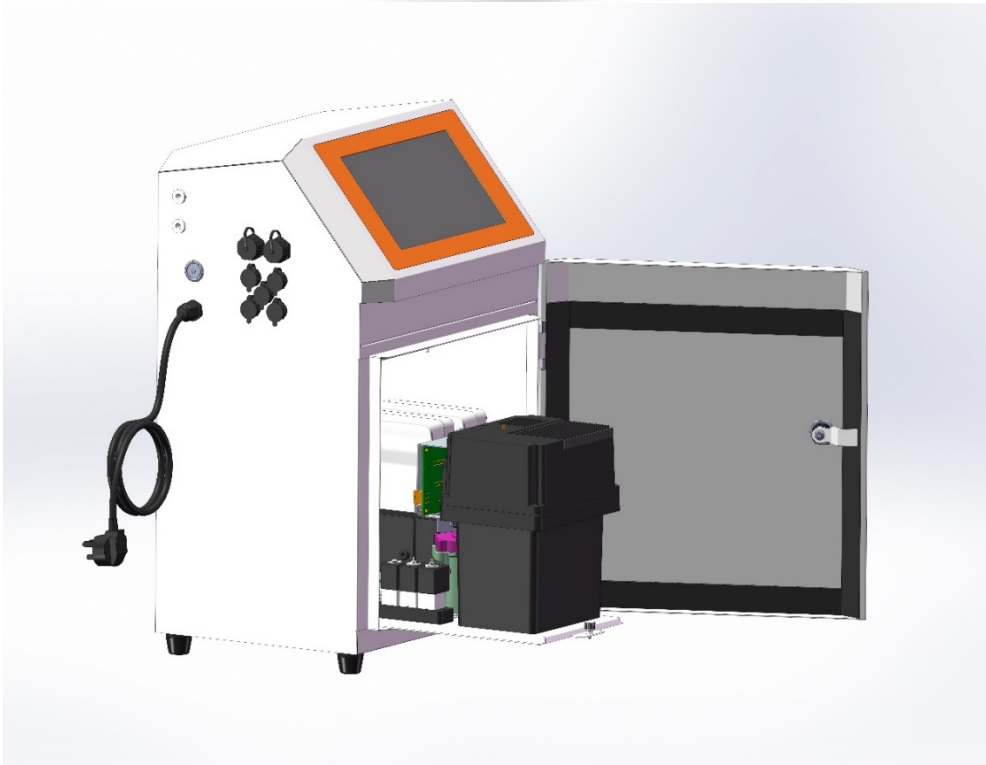
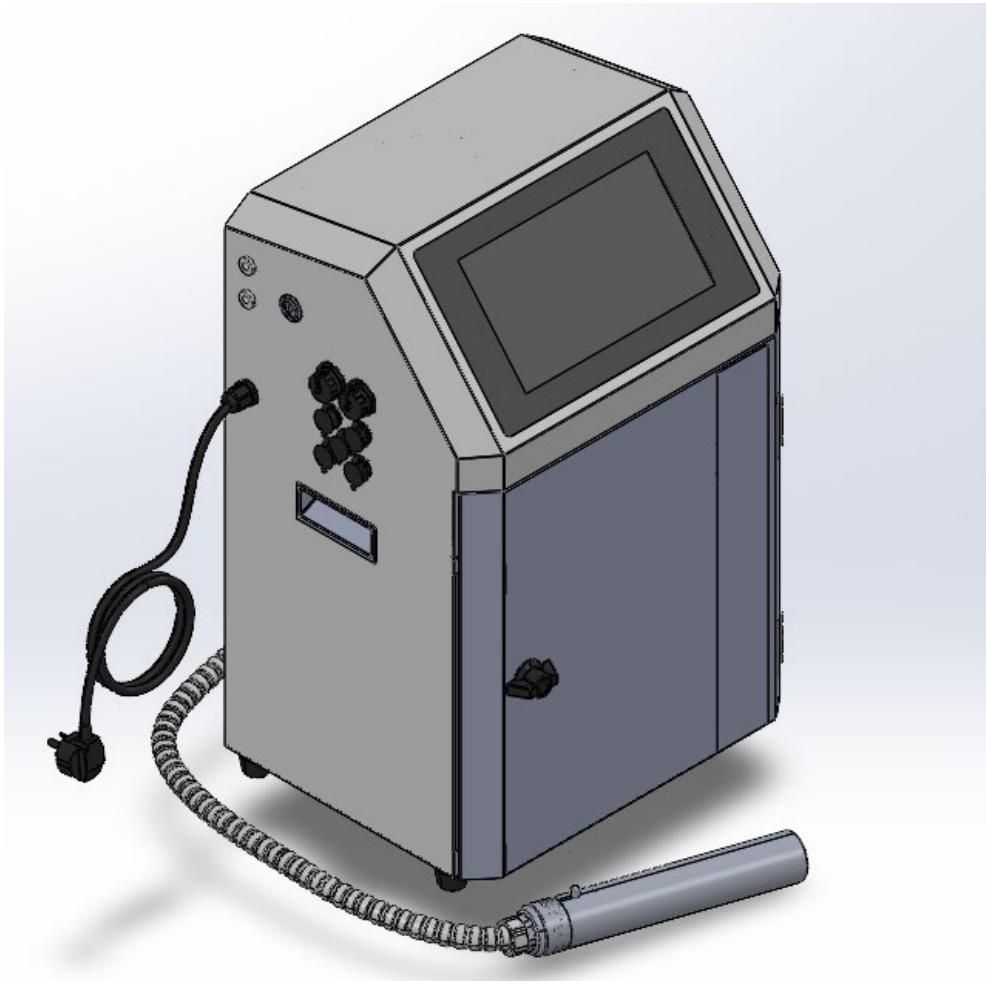
Unauthorized access to the menu. To prevent unauthorized access to the software menu, be sure to clear the password when exiting from a high level password.

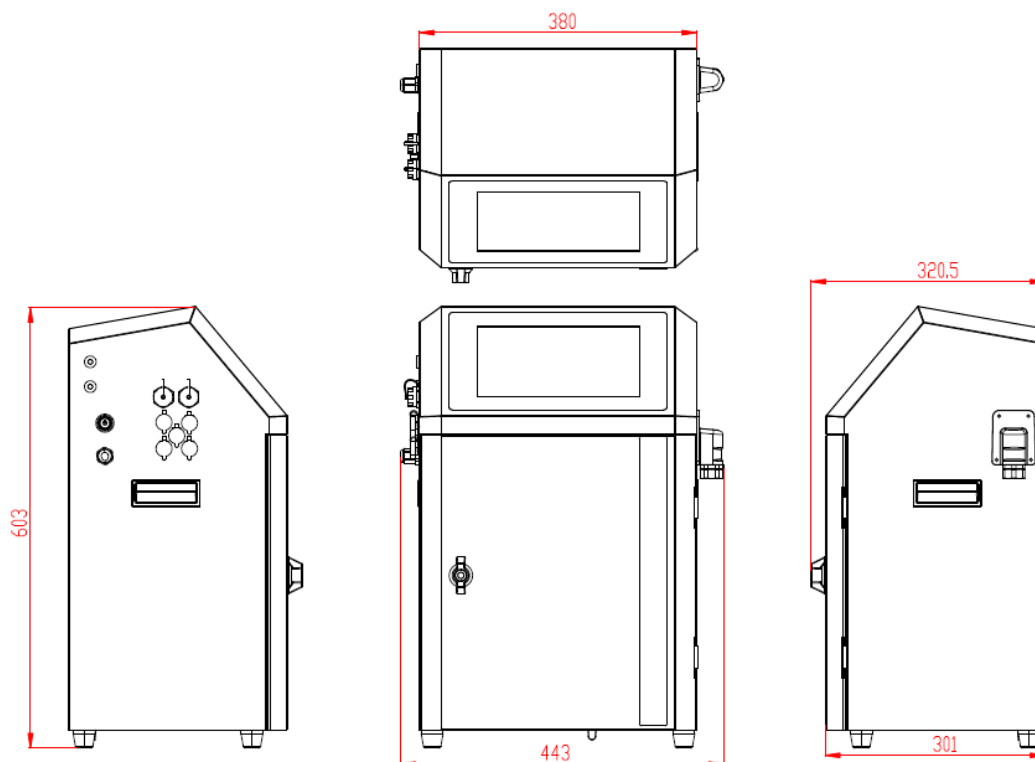
Description

Parameter

| | | |
|-----------------------------|--|--|
| Printer type | DC810 | |
| Print lines | 34 dots | 1-4 lines (7x5 dots) 1-5 lines (5x5 dots) |
| Print font | 5x5,7x5,9x6,12x8,12x12CH,16x11,16x16CH, | |
| Printable characters | Upper and lower case English letters, Arabic numerals and common symbols, user-defined characters, serial numbers, automatic dates, can directly edit Chinese characters and trademark patterns, bar codes, two-dimensional codes, external data, etc. | |
| Print height | 2-30mm | |
| Print direction | 360° full print | |
| Maximum speed | 2160 characters/sec (CPS) (5x5 dots, per line) | |
| Display screen | 10.1 inch HD touch screen | |
| Operating system | Multilingual system, Chinese simplified, Chinese Traditional, English, German, Portuguese, Russian, Spanish, Thai, Arabic, Croatian, Persian, Slovak, etc. | |
| Store data | 1000+ | |
| Data interface | USB\RS485\Ethernet (Online version) | |
| PH Cable length | 3 meters is standard | |
| TEMP range | 0-45°C | |
| Humidity range | Relative humidity 30-90%, non-condensing state | |
| Suitable voltage | AC100-120/220-240V±10% 50/60Hz 150VA | |
| Weight | 18KG | |
| Dimension | Length 397mm* width 314mm* height 454mm | |

Printer external dimensions

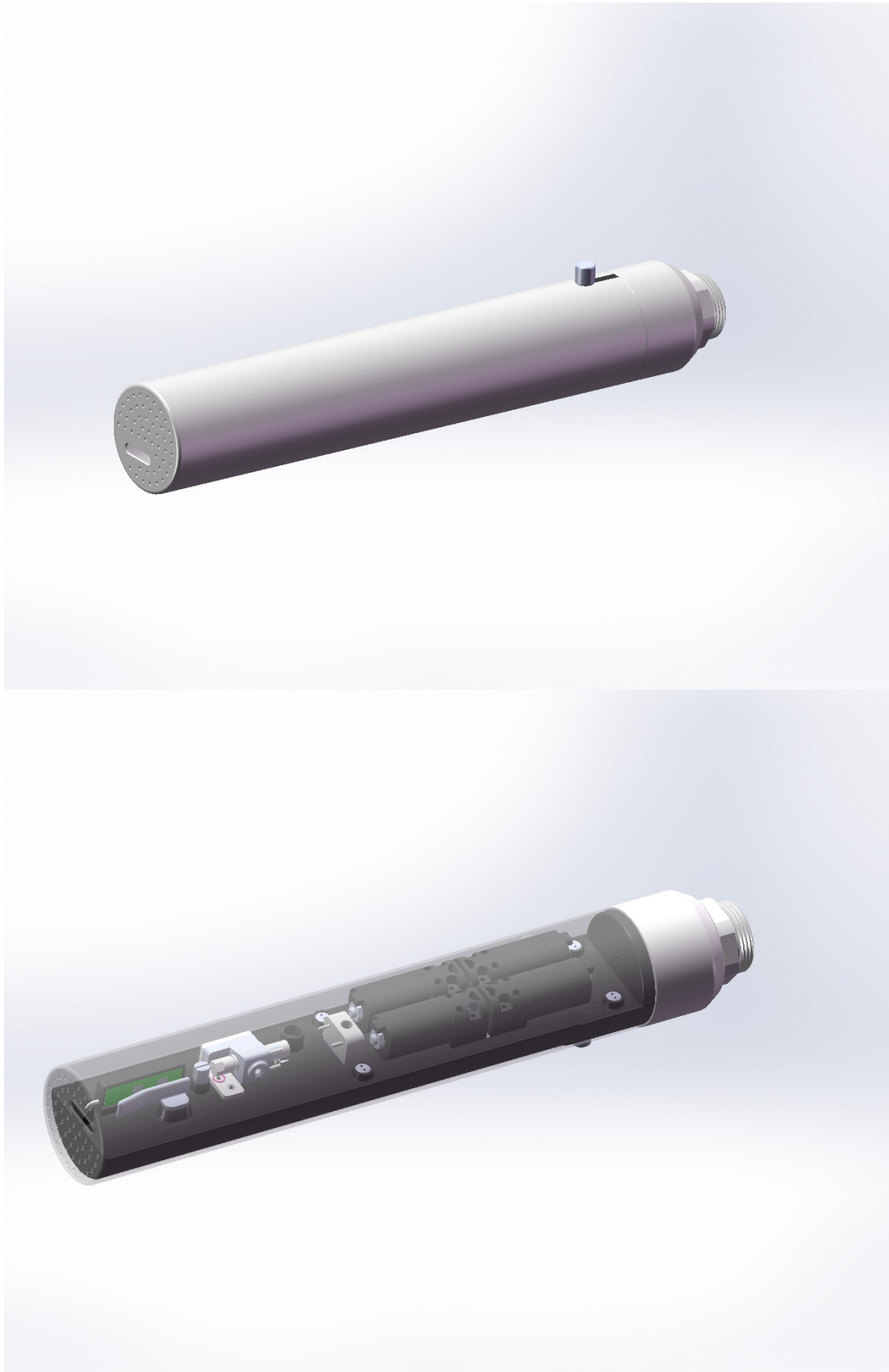




Notes: Ink cartridges and solvent cartridges are part of the equipment accessories, without which the printer will not operate.

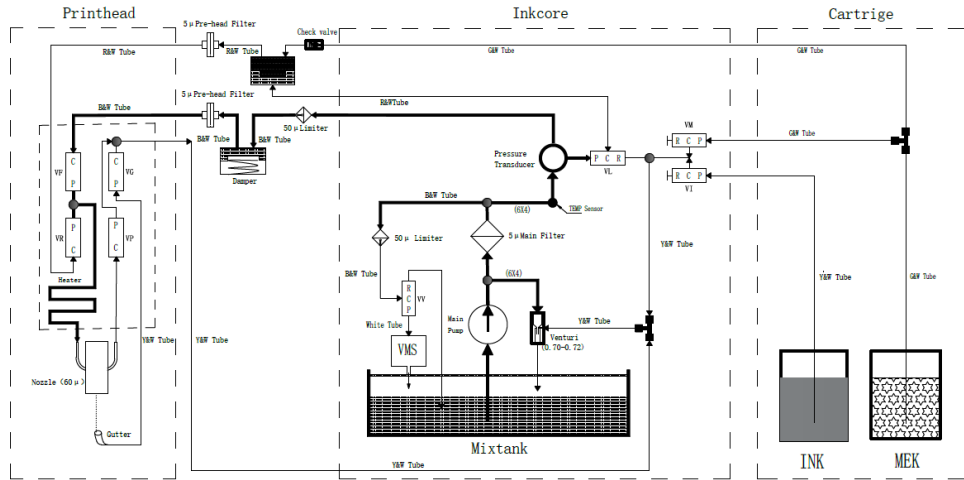


Nozzle appearance



Ink schematic

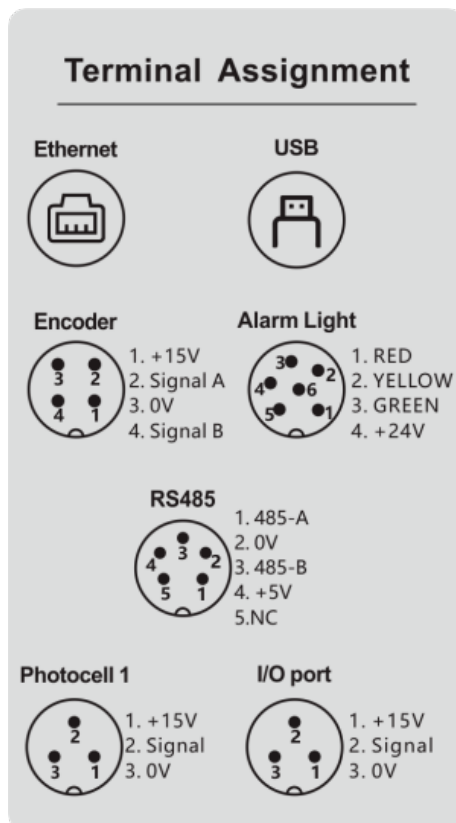
Ink Schematic



Y&W Tube: Yellow & White Tube, B&W Tube: Black & White Tube, G&W Tube: Green & White Tube, R&W Tube: Red & White Tube

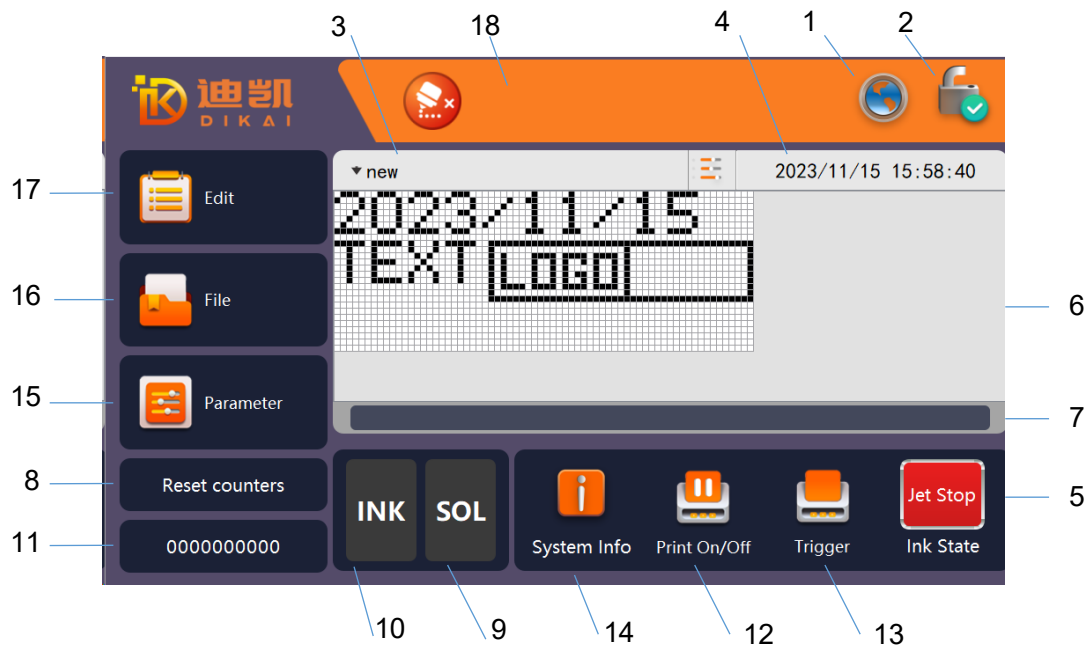
VI: Ink add Valve VM: Mek add Valve VV: Viscosity Valve VL: Flush pump Valve Valve OFF: C-R Connect
 VR: Purge Valve VF: Feed Valve VP: Reflow Valve VG: Gutter Valve Valve ON : C-P Connect

I/O interfaces and definitions



| Encoder | | RS485 | |
|-------------|---------------------|-------------|----------------------------|
| 1 | +15V | 1 | 485-A |
| 2 | Phase A | 2 | 0V |
| 3 | 0V | 3 | 485-B |
| 4 | Phase B | 4 | +5V |
| Alarm light | | 5 | NC |
| Photocell 1 | | | |
| 1 | Red light signal | 1 | +15V |
| 2 | Yellow light signal | 2 | Print signal |
| 3 | Green light signal | 3 | 0V |
| 4 | +24V | Photocell 2 | |
| 5 | \ | 1 | +15V |
| 6 | \ | 2 | Bidirectional print signal |
| | | 3 | 0V |

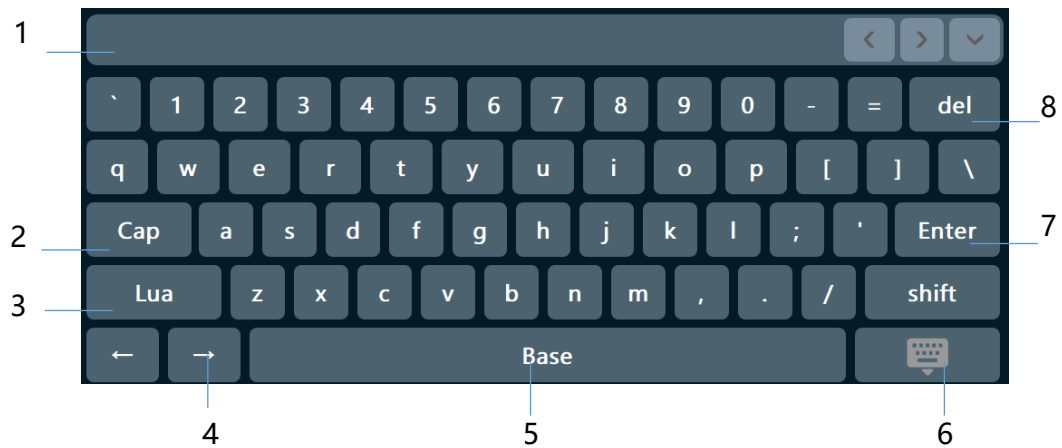
Main interface



- | | | |
|------------------------|-------------------|------------------------|
| 1. System language | 7. Scroll bar | 13. Trigger switch |
| 2. Login management | 8. Counter resets | 14. System information |
| 3. Print message index | 9. Solvent margin | 15. Parameter sets |
| 4. System date time | 10. Ink margin | 16. File management |
| 5. Open/close ink line | 11. Total prints | 17. Message editing |
| 6. Preview area | 12. Print switch | 18. Fault and warning |

Note: This machine supports touch operation and mouse operation, among which mouse operation supports USB hot swap, please choose a mouse with USB interface.

Keyboard introduction

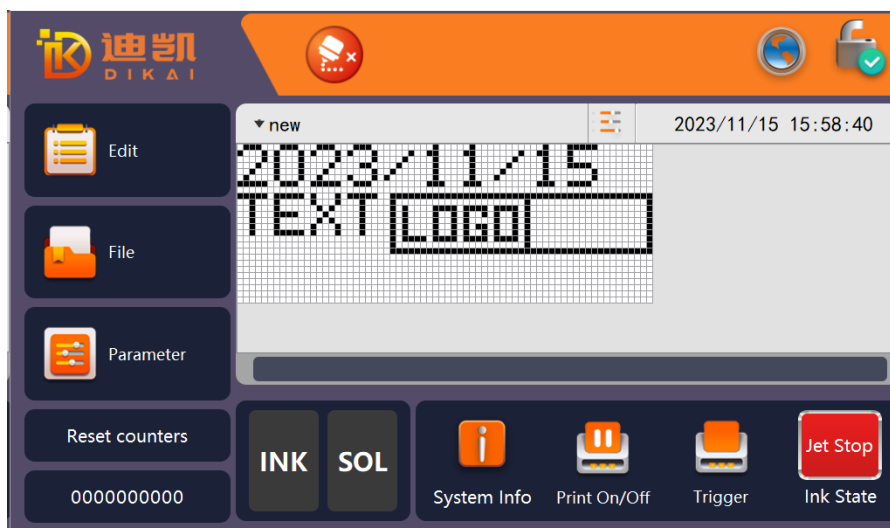


- | | | |
|------------------------|----------------------|----------------|
| 1. Text input field | 4. Cursor move key | 7. Confirm key |
| 2. Case switch key | 5. Space key | 8. Delete key |
| 3. Language switch key | 6. Keyboard drop key | |

Operation

Turn on/off the printer

Turn on the printer



Follow these steps to start the printer:

1. Ensure that all cables and ground cables are properly connected.
2. Ensure that the power line is connected and powered on;
3. Open the power button of the inkjet machine;
4. The inkjet printer starts the system. When the following main screen appears, it indicates that the machine is started successfully.

Open ink line

Click the Start ink state button in the lower right corner of the main interface. During the start process, the inkjet printer will automatically run the cleaning function, and the start ink button will keep blinking for about 2 minutes.

After the ink line is successfully opened, the start ink line button displays the printable state, triggers the product sensor, and the printing will begin.

When the printer is running, you can monitor its status in the following ways:

- Status icon on display.
- LED indicator on the left side of the display.
- Optional alarm light (if installed)

Quick start:

Quick boot is generally performed after 30 minutes of downtime to restart the operation, in order to reduce the waiting time.

Step 1: Click the "Parameter" button on the left side of the screen;

Step 2: Click the "System Control" button on the right side of the "System Info" screen;

Step 3: Click the "Quick Start" button at the bottom, and the printing icon on the main interface will turn green after the start is successful.

Stop printing

Click the "Jet Stop" button in the lower right corner of the main interface. After the printing icon of the main interface turns red, the shutdown is complete. **Do not turn off the power until you have completed the cleaning nozzle shutdown procedure.**

Quick stop:

Step 1: Click the "Parameter " button on the left side of the screen;

Step 2: Click the "System Control" button on the right side of the "System Info" screen;

Step 3: Click the "Quick Stop" button at the bottom, and the printing icon on the main interface will turn red after the stop is successful.

Warm reminder:

1. This process takes about 4-5 minutes, and the inkjet machine automatically shuts down after completing the automatic cleaning function.
2. Do not switch the machine frequently in a day, which will trigger the inkjet "liquid level is too high" and "viscosity is too low" alarm, resulting in not achieving good printing quality.
3. Perform quick stop under the guidance of engineers to avoid blockage of ink lines.

Power off

After finishing the cleaning shutdown procedure, press the power button to turn off the printer.

Warm reminder:

1. The inkjet printer will clean the equipment by itself during each switching process, and the time is about 2-5 minutes. Turn off the power supply only when it is displayed that the ink line is stopped; otherwise, the pipeline will be blocked.



2. If the inkjet machine is not used for more than a week, after the normal startup operation is completed, log in to the administrator rights, and then enter the "Parameter "-" System Info "-" System Control" page, click the " Umbilical Purge " button, this operation is conducive to extending the use of the equipment.

Login management



Login management Three levels of permission management are set for the device, including no password, user password and administrator password. By default, the system does not have a password. Each time you log in to the system, follow the following steps:

Step 1: Click the login button  on the main interface;

Step 2: Enter your password in the keyboard area and press the button  ; The icon appears as  permission operation takes effect.

When entering the user password(**Default: 888888, change password see Change password menu**), functions with user-level permissions are available.


When you enter the administrator password, administrator permissions (including user-level permissions) are available.

Password change In the normal login state, go to the main interface of the "Parameter" - "Device Info", on the user login Settings page, you can reset the user password, enter the new password and click OK, the new password takes effect immediately.

Forgot password If you forget the user password, please log in to the administrator, go to the main interface "Parameter" - "Device Info", click "Recover User password" button, the pop-up confirm password prompt box, click "YES", reset the user password.


Log out

Method 1: After login password permission, turn off the inkjet machine to automatically exit the password;

Method 2: Click the login button  on the main screen to exit the login mode immediately;



Method 3: On the "Parameter" - "Device Info" page, open the "Automatic Logout" option, and log out automatically after 10 minutes without any screen operation.

System language and date time

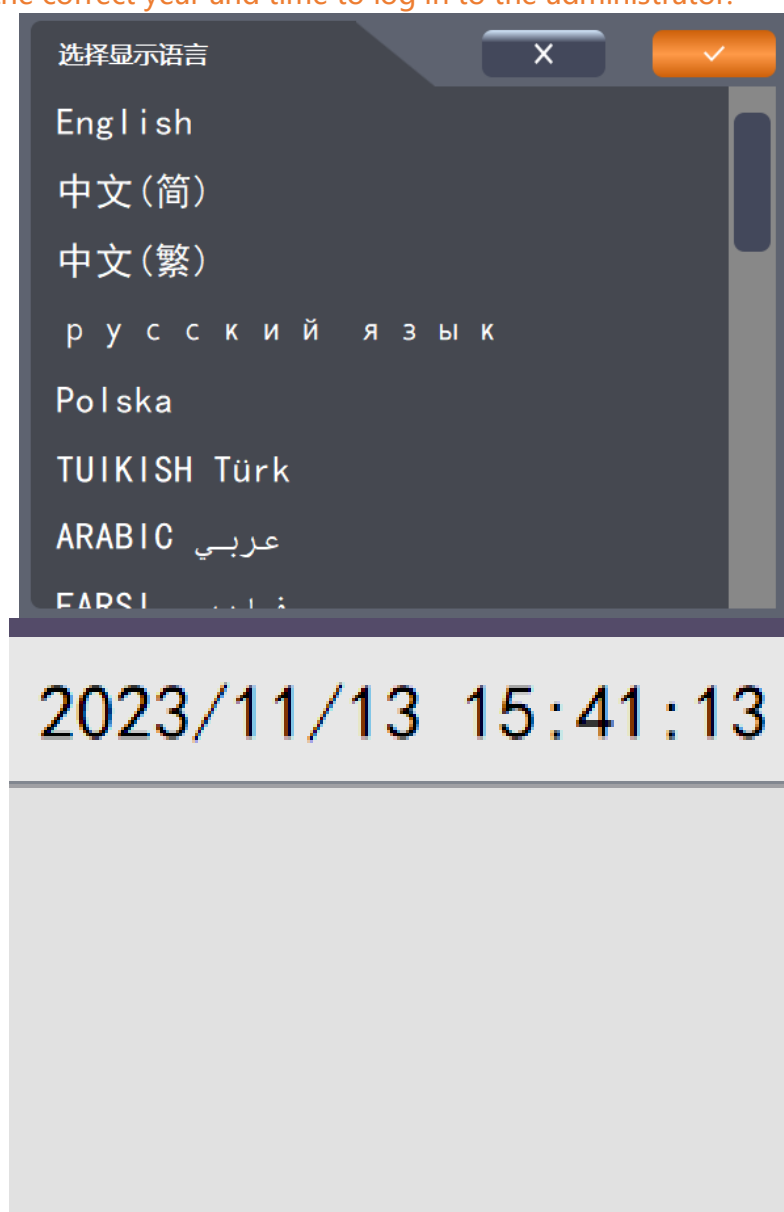
System language Click the system language button  on the main screen, click on the language list to select the system language you want, and the system language will take effect immediately (below left).

Note: The system language is the menu language of the operating system, not the library language.


Date time In the user level login state, click the time and date area on the main interface, as shown in the lower right panel, directly enter the number to set the year, month, day, hour, minute and second.

Click the button  to confirm settings, click the button  to cancel the setting.

Note: Use the correct year and time to log in to the administrator.






Message search and preview


Click the file name display area at the top of the main screen  and the information list is displayed.


Filename display area Displays the current file name.

Information preview area Displays the information content in the file. This preview box updates in real time when switching information files.

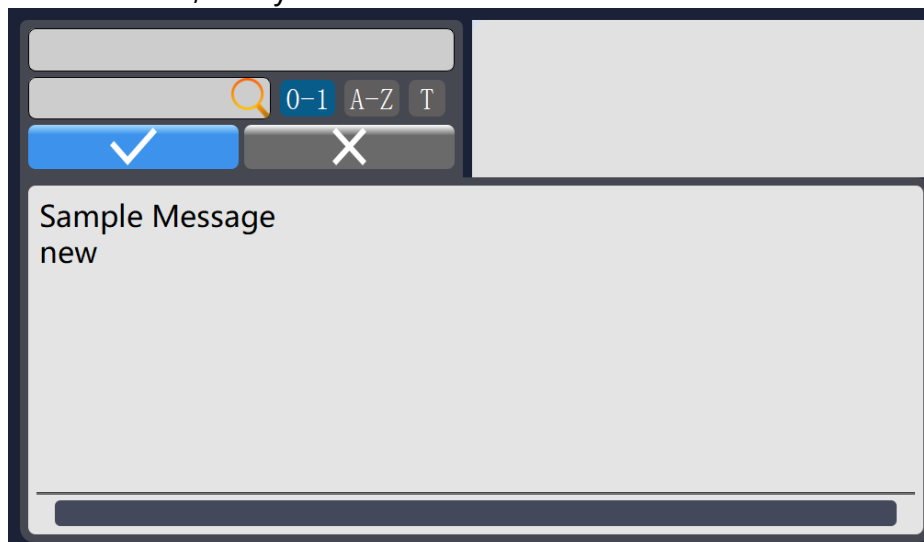
File list area A list of files is displayed. Drag the horizontal scroll bar to see the completed file name.

Display index There are time indexes, alphabetical and numeric indexes to filter the list of files; Click time index , the newly created file will be displayed at the front of the list; Click alphabetical index , the list of files will be sorted by first letter from A to Z; Click digital index , the list of files is displayed in descending order of 9-0 digits.

Search Click the search button on the main screen , enter the search information file state, enter the first letter/number of the name on the pop-up keyboard, automatically collapse the keyboard and match the existing information file, select the filtered information file, you can load the current printing information.

Confirm Click  button, the system switches to the newly selected file and returns to the main menu interface.

Back Click  button, the system returns to the main screen.




Cumulative print count


Cumulative print count

It shows the total number of printing times completed by the inkjet printer, not the number of printing times of a single message.

Reset from zero

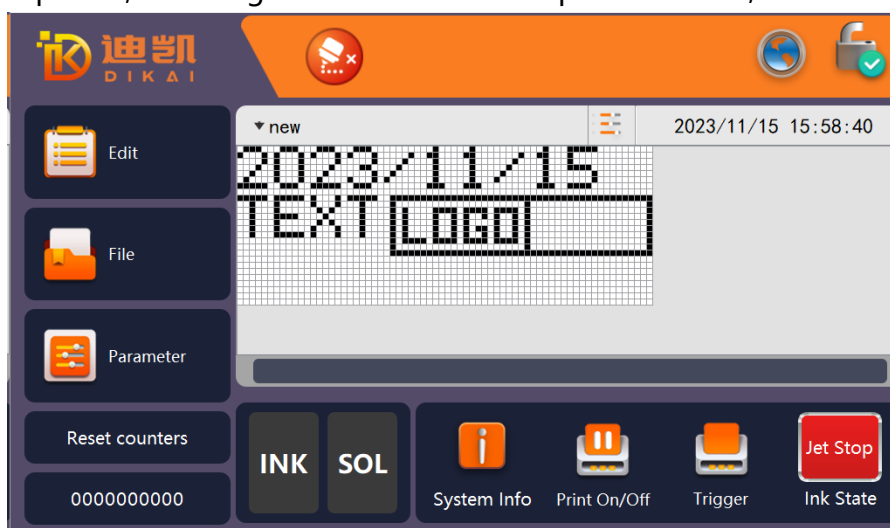
Click the printing cumulative number area, the pop-up "Whether to reset the cumulative printing counter" dialog box, click the button , printing cumulative number of zero.

Counter reset





Reset the print content with the counter function in the current information, the pop-up the "Reset all counters" dialog box, click the button , the print count function is reset.












Fault and warning information



As shown in the figure, the red box is the icon display area of the current fault of the inkjet printer, including information such as sprinkler status, fault and warning.




Click the fault display area and a panel of all fault information will pop up. See the following figure for all warning and fault information tables:

| Icon | Status | Instructions |
|---|----------------|---|
|  | Print running | The ink line is running normally and the machine is ready for printing. |
|  | Print stopped | Indicates that the ink line stops. |
|  | Low margin ink | The ink is insufficient, please replenish it in time. If the icon is still displayed after the ink is added, contact maintenance engineers. |
|  | Low solvent | Solvent is insufficient, please replenish in time. If the icon is still displayed after the ink is added, contact maintenance engineers. |

| | | |
|---|--|--|
|  | Nozzle cover is not installed | If the nozzle cover is not installed and the high pressure screw is not tightened, the ink line will continue to run but cannot print. If the icon is still displayed after the nozzle cover is closed, contact maintenance engineers. |
|  | Mixing cylinder liquid level is too high | The amount of ink in the mixing tank is too high and the icon should disappear after a few moments. If it takes more than 5 minutes, contact maintenance engineers. |
|  | Mixing cylinder liquid level is too low | The mixing cylinder ink is used up and the icon should disappear after a few moments. If it takes more than 5 minutes, contact maintenance engineers. |
|  | VMS viscosity cavity cannot be filled | The VMS viscosity cavity cannot be filled. If this icon is displayed, contact your maintenance engineer. |
|  | VMS viscosity cavity cannot be emptied | The VMS viscosity cavity cannot be emptied. Contact your maintenance engineer when this icon is displayed. |
|  | Viscosity error | Ink viscosity is too high or too low. If it takes more than 5 minutes, contact maintenance engineers. |
|  | Extra high voltage trip | High voltage leakage has been detected. The deflector electrode in the sprinkler head needs to be cleaned. If the fault persists after cleaning, contact maintenance engineers. |
|  | Charging failure | Shower head needs cleaning. If the fault persists after cleaning and drying the sprinkler head, contact maintenance engineers. |
|  | Recovery tank fault | The ink didn't go into the recycling tank. Shower head needs cleaning. If the fault persists, contact maintenance engineers. |
|  | Case overheating | The inkjet chassis is overheating. In order to prevent damage to the machine, the inkjet machine automatically shuts down and can be restarted after cooling. |
|  | Need maintenance tips | Inkjet printer needs maintenance, contact the maintenance engineer. The printer will continue to print until maintenance can be performed. |

| | | |
|---|-----------------------------------|--|
|  | <p>Printing speed is too fast</p> | <p>Encoder speed is too high, it is difficult to achieve the required printing width. If the width of the printed information is incorrect, contact maintenance engineers.</p> |
|  | <p>All faults</p> | <p>If fault information exists, click this icon to display all fault information collections. If the fault persists, contact maintenance engineers.</p> |

Running parameter

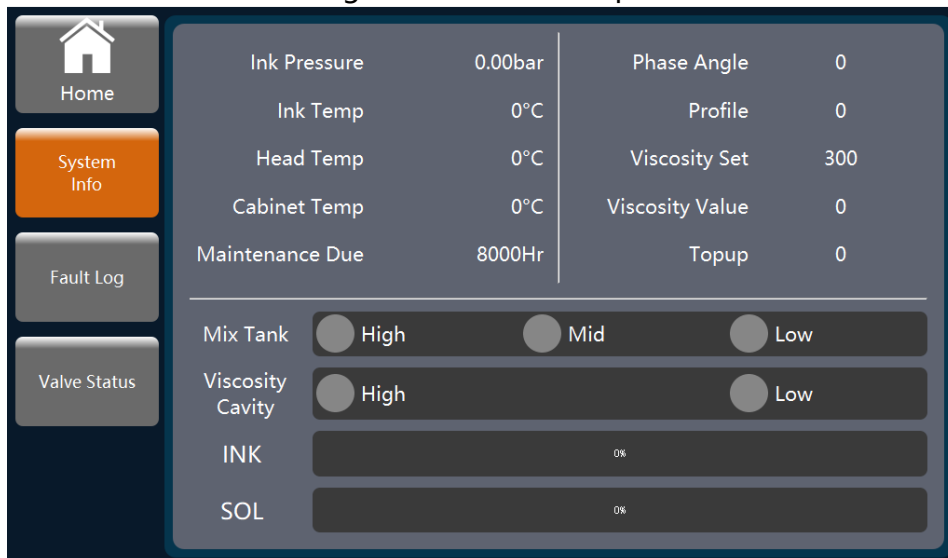
System info Click the button at the bottom of the main screen  in the dialog box that is displayed, you can view system information, fault logs, solenoid valve status, and consumable status. "System Info", you can clearly understand the current working status of the inkjet printer.

Maintenance time In order to ensure the normal operation of the device, the system sets a fixed maintenance time. When the remaining maintenance time is less than 500 hours for the first time and is greater than or equal to 200 hours, a dialog box will be displayed during startup.


When the remaining maintenance time is less than 200 hours for the first time, a dialog box will pop up when the machine is turned on, and the box will pop up every 20 hours after that.


When the remaining maintenance time is less than 10 hours for the first time, a dialog box will pop up when the machine is powered on, and a dialog box will pop up every 1 hour after that.

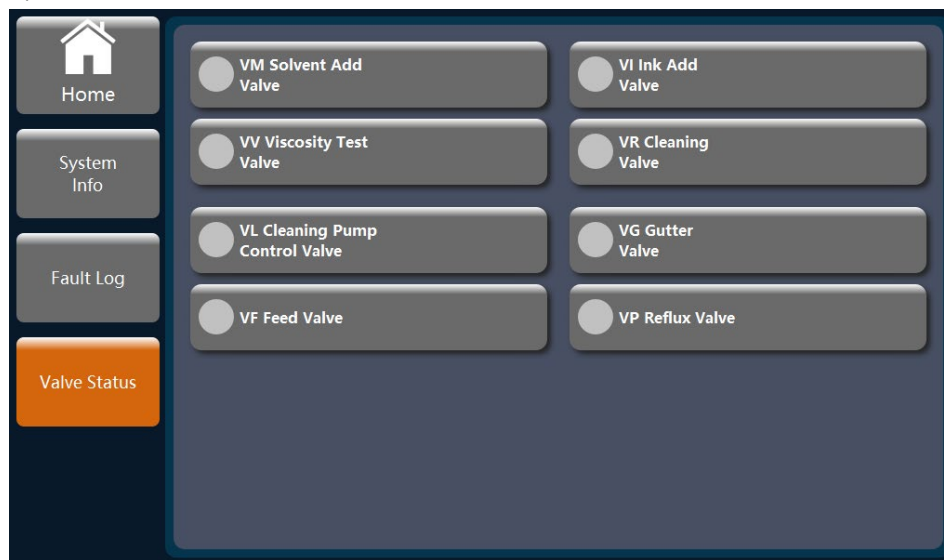
When the remaining time of the ink core is 0, the system displays a "need maintenance reminder" fault sign, but does not stop.



Fault log Record the fault information and time. You can export the logs to an external storage device through the USB serial port.

Valve status Display the current status of all solenoid valves, click the corresponding option button , can listen to the sound of the solenoid valve opening or closing.

Back main screen  Click this icon to return directly to the main interface of the system.



Parameter setting

System parameter setting

System parameters are used to ensure the normal operation of the inkjet printer, printing parameters. Click the "Parameter" - "System Parameter" function menu on the main interface to open.

Incorrect ink point modulation value will affect the printing effect, and even cause charging failure resulting in the printer automatically stop the ink line. Incorrect ink point charging value will affect the printing effect, and even cause charging failure resulting in the inkjet printer automatically stop the ink line, normal adjustment range (135-170), the default value is 155.

When the inkjet printer is running at the ink line, the ink viscosity is automatically detected and the ink viscosity value is adjusted:

When the current viscosity value is higher than the viscosity setting value, the inkjet will automatically add solvent to the mixing cylinder to reduce the ink viscosity and make it close to the viscosity setting value. When the current viscosity value is lower than the viscosity setting value, the inkjet will increase

the viscosity of the mixing cylinder ink through the solvent volatilization of the normal operation of the ink line.

By adjusting the system parameters, the inkjet printer can have the optimal state under different production environments. The setting values are as follows.

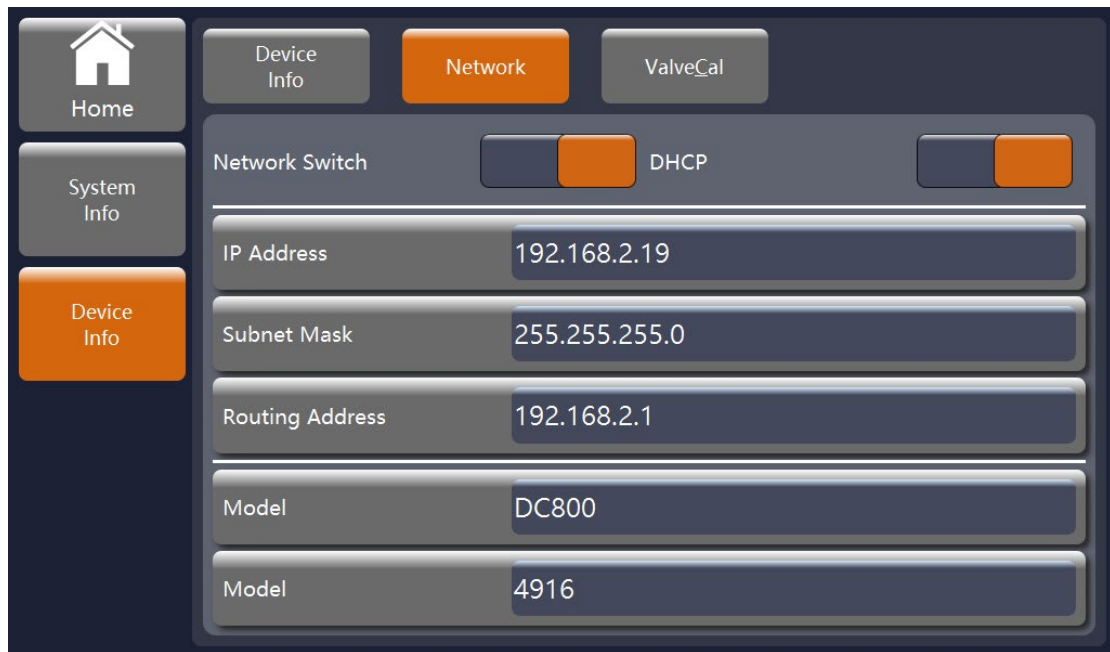
| System parameter | Instructions |
|-----------------------|---|
| Modulation set | Range: 5-99 |
| Viscosity set | Range: 150-600 |
| Ink pressure | Range: 100-500 |
| Nozzle temp | Range: 0-60 |
| Charge value | Range: 80-200 |
| Charge error shutdown | On/off, in the case of open, if there is a charging failure, the printer stops. |
| Gutter fault shutdown | On/off. In the open case, if a recovery failure occurs, the printer stops. |



Network Settings


Network switch Network model printer, open the network switch, enter the corresponding IP address and subnet mask, the router address can be connected to the network, to achieve data transmission.

DHCP Automatically obtain the IP address of the current interconnection, and realize data transmission.



File management


Create message/logo file

Step 1: In the corresponding message/logo option, click the new button  to pop up the following dialog box;



Step 2: Enter the new message name, click Enter button, that is, enter the message editor;

Step 3: After editing the required message content, press the Save button to save the current information.

Tips: The message name can be English, numbers, and symbols. Use the key  on the keyboard to switch case.




Edit message/logo file

Step 1: Click "File Management" button to pop up the dialog box;

Step 2: Click the "Message/Logo" button;

Step 3: Click the file name in the file list to select the file;

Step 4: Click the edit button  in the toolbar to enter the edit state of the current message.


Tip: The editing function is not available when multiple logo files are selected.



Delete message/logo file

Step 1: Click "File Management" button to pop up the dialog box;

Step 2: Click the "Message/Logo" button;

Step 3: Click the file name in the file list to select the file;

Step 4: Click the Delete button  in the toolbar to delete the selected file;

Step 5: In the pop-up dialog box, select the cancel button , the system will not delete the file, select the confirm button , the system will delete the selected file.

Note: Multiple selected files can be deleted at a time;

The system files Sample Logo, Sample Message, MSG_A, and MSG_B cannot be deleted.

USB external storage management

This device supports the transfer of data and files between local files and external USB flash device in FAT32 format (other formats will not be recognized), and supports the transfer of multiple data or multiple files.

How to confirm whether the format of the USB flash drive you use is FAT 32 format, perform the following operations:

1. Insert the USB drive into your computer;
2. After confirming that the computer recognizes the USB flash drive, enter My Computer (this computer);
3. Find your USB drive, use the right mouse button to click your USB drive;
4. Click properties in the pop-up window;
5. In the general options displayed on the pop-up page, the file system is the format of the USB drive.

Adding an external storage device (USB drive) :

Insert the USB drive into the USB port on the right side of the machine, and the system will display the USB drive icon, indicating that the USB drive has been recognized.

To remove an external storage device (USB drive) :

After data or files are transferred, do not remove the USB drive directly. Removing the USB drive directly may cause damage or data loss. Please perform the following operations to remove the USB drive:

Step 1: Click the USB icon on the main interface;

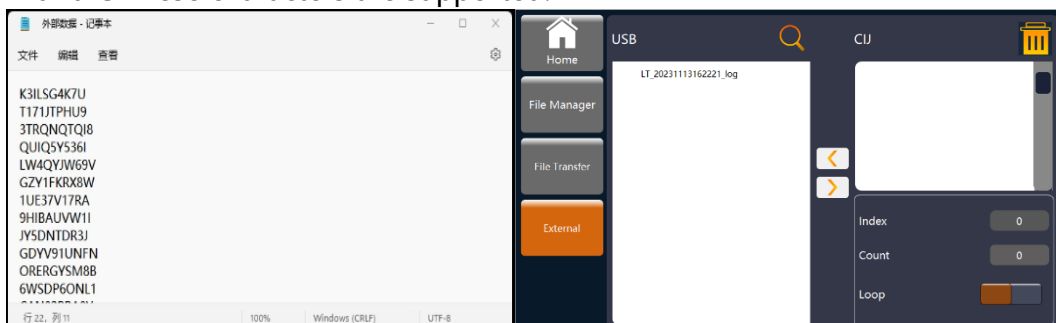
Step 2: In the pop-up dialog box, click the OK button to confirm the exit;

Step 3: When the USB icon in the main interface disappears, remove the USB drive.

Data transfer/file transfer

The external data file must be in txt format, and the order of information in the file is arranged in a row, for example: the first act is the first information, the second act is the second information, and so on...


Each message supports a maximum of 100 characters. Only ASCII characters and Chinese characters are supported.





- Sets the index: the number of messages printed from the beginning;
- Whether the loop is open:

Yes: When printing to the last message of the file, the next printing will print the first message;

No: When printing to the last message of the file, the next printing will print the last message.

Click the search button  , search for the information file, enter the first letter/number of the name on the pop-up keyboard, automatically collapse the keyboard and match the existing information file, select the filtered information file to perform import/export operation.

Click the Delete button  and the selected information file will be deleted.

Click the button   to transfer internal/external data.

Note: Two points must be confirmed before importing the icon to the inkjet printer: 1. The icon name does not contain Spaces; 2. The icon format is logo2.

Import data

Step 1: Insert the USB of external storage Settings into the USB interface;

Step 2: Click the "File Management" button on the left side of the main interface;

Step 3: Click the "External Data" button to enter the functional interface.

Import file

Step 1: Click the message (message, database, icon) file in the left USB external data bar to select the file;

Step 2: Click > Button to import the selected file into the local machine.

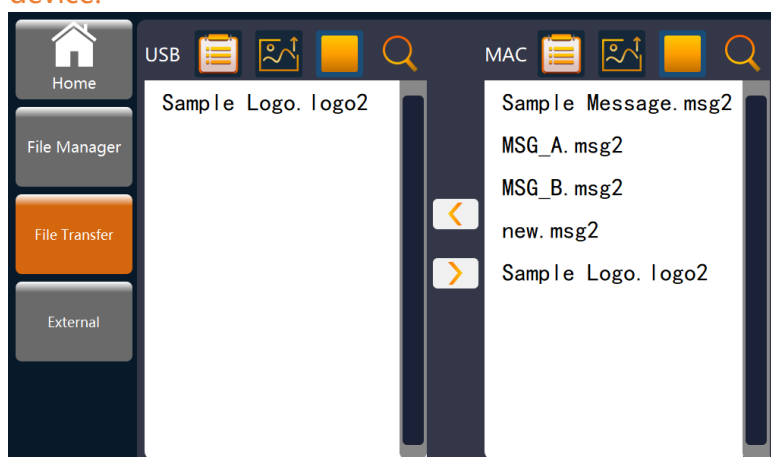
All imported message, data, and ICONS are visible and available for editing on the Info/ICONS page.



Derive

Step 1: Click the message (message, database, graph) file in the CIJ column on the right and select the fil;

Step 2: Click < Button to import the selected file to an external USB storage device.

The exported local data, message, and files are backed up on the USB external storage device.



When you click the text icon  or graphic icon  on the File Transfer screen, all text files or graphic files are displayed individually.

Fonts management

This menu function can add or delete the TTF format standard font library and custom font library (icon) in the device, the operation procedure is shown in File transfer.

Note: This function is only open to administrator permissions, operator permissions do not have this operation permission.



Screen setup

Brightness setting

- Step 1: Click "Parameter" in the main interface to pop up the dialog box;
- Step 2: Click "System Control" option;
- Step 3: Drag the slider left and right in the pop-up dialog box to adjust the brightness (value 0-10).

Screen calibration

When the position of the button displayed on the screen is misaligned with the function, it is recalibrated through the screen calibration function. The operation method is as follows:

- Step 1: Click "Parameter" in the main interface to pop up the dialog box;
- Step 2: Click "System Control" option;
- Step 3: Click the "Calibration" function option, click the button  to cancel the calibration, click the button  to confirm the calibration.

Screen saver

The screen saver option is turned on by default, and after 3 minutes of no operation, the printer screen will automatically turn off. Under the normal startup state, after the screen is automatically extinguished, the inkjet printer ink line operation and inkjet are still in the working state.

To disable the screen saver, do as follows:

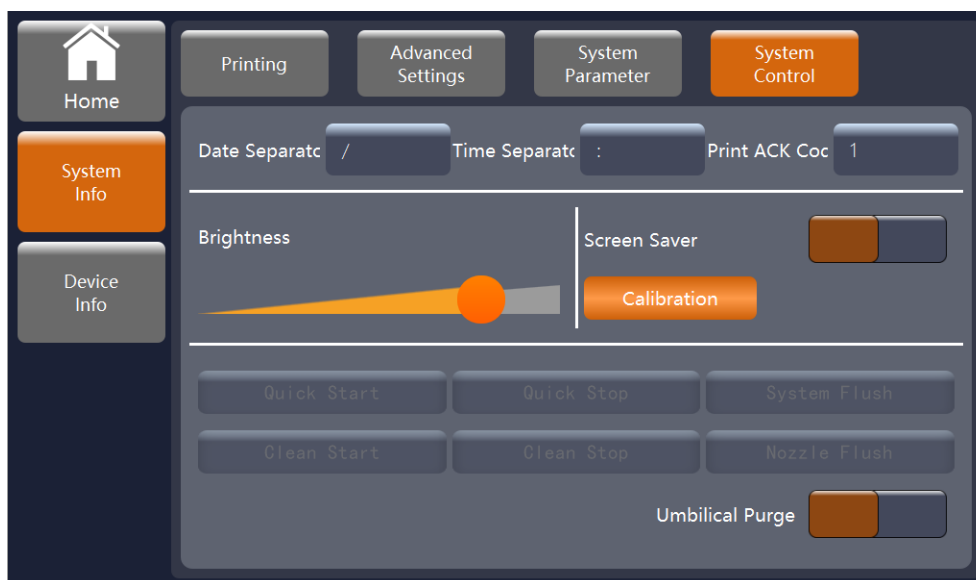
- Step 1: Click "Parameter" in the main interface to pop up the dialog box;

Step 2: Click "System Control" option;

Step 3: Click the screensaver option to turn off the screensaver function.

Tip: It is recommended that the screen saver be turned on.

Separator setting



Separator setting

The system provides date separator and time separator Settings. By default, the date separator is "/", and the time separator is ":". You can customize the date and time separators by entering them on the keyboard as follows:

Step 1: Click "Parameter" in the main interface to pop up the dialog box;

Step 2: Click "System Control" option;

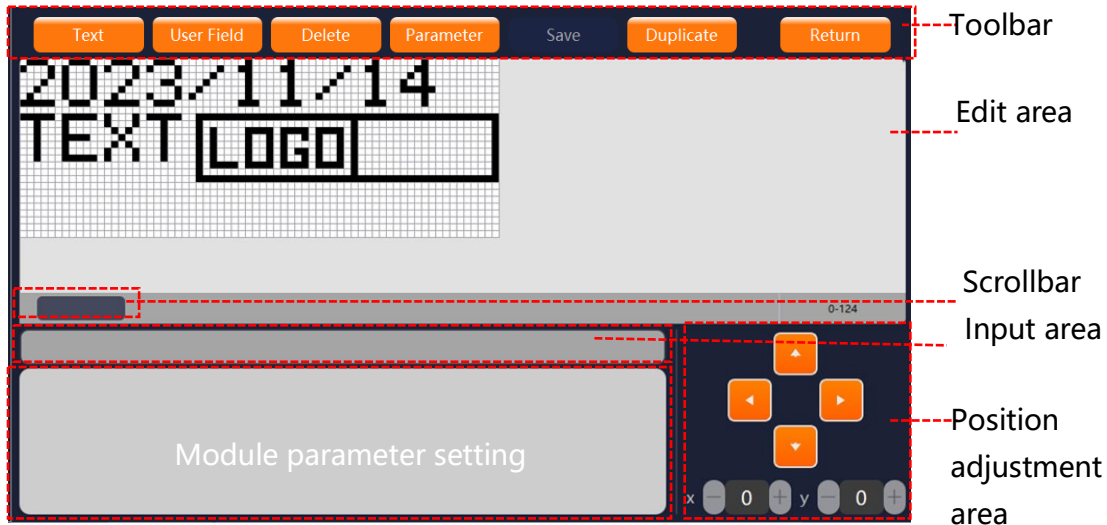
Step 3: Customize the date separator or time separator by typing on the keyboard.

Print ACK code

This code is reserved for customer customization. For example, customer A has customized a system with special functions and set the printing verification code to 123. When the customer enters the printing verification code 123 on the device, the customization function is enabled.

Field editing

Add field



When entering the field editor interface for the first time, the field editor is in a blank state, and the field content is edited through the menu module of the field editor. Click the "Text" button, the system pops up a dialog box, select the corresponding content module in the dialog box..

Create fixed text

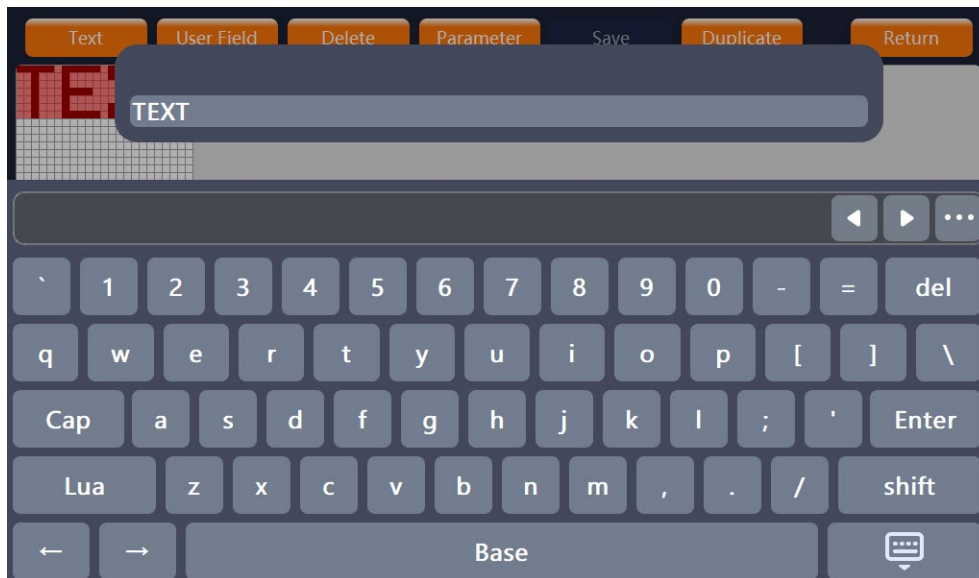
Step 1: Click "Text" module to enter add;

Step 2: Click the input area to enter the required text information on the pop-up keyboard;

Step 3: Click the OK Enter button on the keyboard to complete the text information input.

Size: Provide a variety of font sizes, non-Chinese fonts 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32.

Fonts: TTF, Default.fnts, Expend(turkey,Arablec).fnts

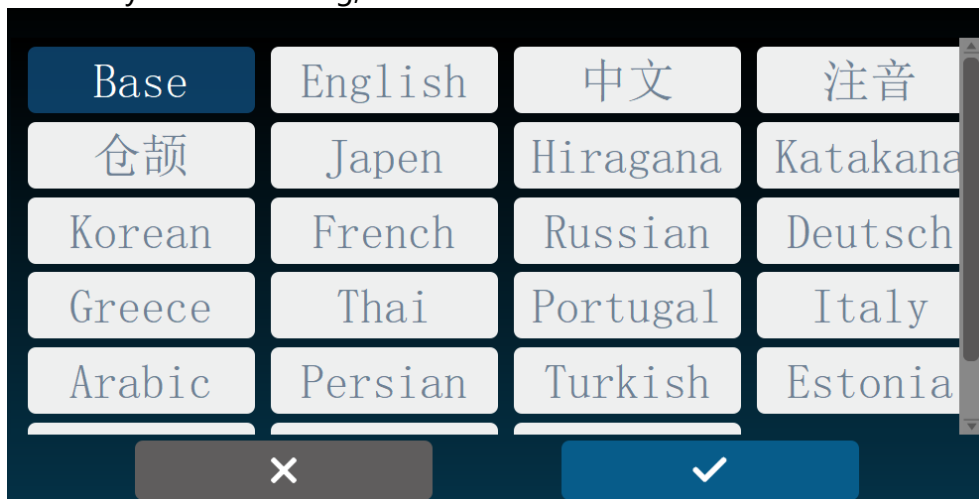


Create other language text

Step 1: In the add text interface, click the keyboard "Lua" keyboard to pop up the dialog box;

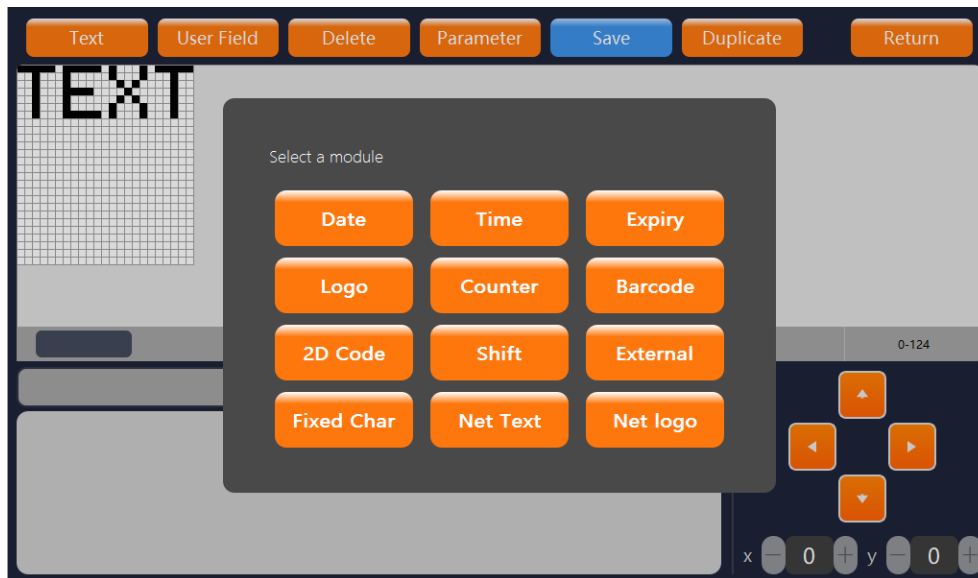
Step 2: Click the corresponding language option;

Step 3: Press to confirm the selected language keyboard, press to cancel keyboard switching;



User field

Click the object button in the "User Field" to immediately add the module of the corresponding object in the upper left corner of the content editing field. The user field provides 12 types of objects, namely date, time, expiry, logo, counter, barcode, QR code, shift, external, fixed characters, net text, and net logo ICONS.

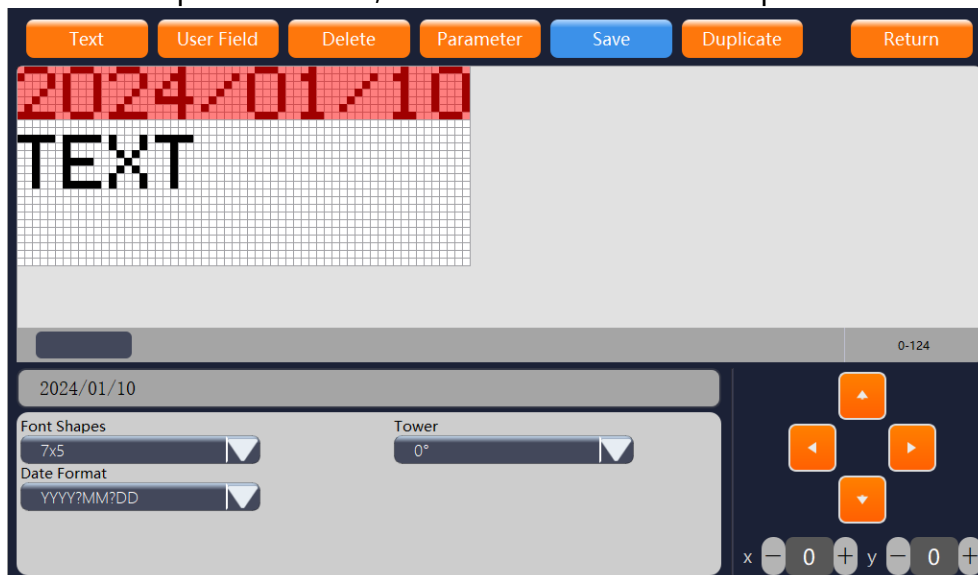


Date/time

Step 1: Click on the date/time module;

Step 2: Click the Expand button in the date format/Time format menu to select the required format, and click the format to complete the selection;

Step 3: In the Date Format/Time Format menu, click the Expand button to select the required font size, and click the format to complete the selection.



Date parameter setting

Font selection: Available in 5x5, 7x5, 9x6, 12x8, 16x11, 19x14, 24x17.

Date format: YYYY?MM?DD, YY?MM?DD, YYYY, MM, DD, YYYY?MM, YY?MM, MON, DAY, YY, WK, YYYYMMDD, DD?MM?YYYY, MM?DD?YYYY, DD?MM?YY.

Note: "?" in the date format If it is a wildcard, click "Parameters - "System Info" in the main interface to set the actual display of the symbol.

Time parameter setting

Font selection: Available in 5x5, 7x5, 9x6, 12x8, 16x11, 19x14, 24x17.

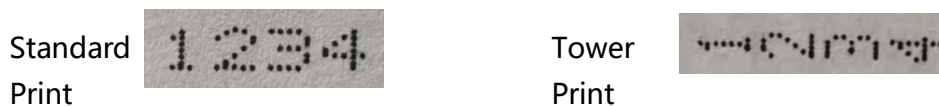
Time format: hh?mm?ss 24h, hh?mm?ss 12h, hh?mm?ss 12h AM/PM, hh 24h, hh 12h, hh 12h AM/PM, mm, hh?mm 24h, hh?mm 12h, hh?mm 12h AM/PM.

Note: "?" in the time format If it is a wildcard, click "Parameter" - "System Info" in the main interface to set the actual display of the symbol.

Tower: Each character is provided to rotate in the reverse clock direction, and the Angle Settings are 0°, 90°, 180°, and 270°.

At present, tower printing only supports numbers, English letters and symbols, Chinese characters and other foreign characters are not supported.

Field modules that support tower printing: text, date, time, expiration date, counter, class, external data.



Expiry

Step 1: Click on the expiry module;

Step 2: Click the Expand button in the menu to select the required date format, and click to complete the selection;

Step 3: Click the Expand button in the menu to select the required font size, click to complete the selection;

Step 4: Enter the desired number in the Enter Validity Days option.



Expiry parameter setting

Font selection: Available in 5x5, 7x5, 9x6, 12x8, 16x11, 19x14, 24x17.

Date format: YYYY?MM?DD, YY?MM?DD, YYYY, MM, DD, YYYY?MM, YY?MM,

MON, DAY, YY, WK, YYYYMMDD, DD?MM?YYYY, MM?DD?YYYY, DD?MM?YY.

Valid days: The default is 0 days, which can be adjusted by the + - button, or by clicking the number directly.

Note: "?" in the date format If it is a wildcard, click "Parameters - "System Info" in the main interface to set the actual display of the symbol.

Logo

Click "User Field" - "Logo" directly to add the logo module.

Please select the logo format: Here, select the existing logo file on the local computer. The logo file can be imported or edited by the logo editor.

Edit: Click the button to enter the logo editor interface, you can directly modify the logo, save and exit the effect.

Counter

Click "User Field" - "Counter" directly to add the counter module. The counter parameters are set as follows.

Counter list: Each message supports up to 8 counter modules, and the same message cannot use 2 of the same counters at the same time. (Counter Settings follow this information only).

Font selection: Available in 5x5, 7x5, 9x6, 12x8, 16x11, 19x14, 24x17.

Start value: The starting value of the count, which can be letters, numbers, or letters and numbers.

Current value: The value of the count reached, which is related to when the count is edited.

End value: The last value in the count period, and cannot be less than the initial value, and the number of bits of the termination value determines the number of bits displayed by the counter.

Step: The number of units in which a value is increased or decreased. (If the initial value is 1 and the step value is 3, the output will be: 1, 4, 7.....).

Repeat: The number of times a count is printed before the count is increased or decreased. (For example, if the initial value is 1, the step value is 3, and the repeat count is 2, the output result is: 1, 1, 4, 4, 7, 7.....).

Prefix: Defines to replace any new character that is led by another specified 0. (If the current value is 109, the termination value is 9999, and the boot character is G, the current output result is: G109). If you do not need a guide, change the "0" to the keyboard's "space bar" or another character (number, letter, or symbol).

Increase/Decrease: Click the button to switch increments or decrement, and count increments or decrement counts within the cycle.

Reset counter: On the main interface, click the counter reset button and click the button in the pop-up confirmation box to reset all counters in the current printing information. Click back.

Note: When the counter is printed to the end value, it will automatically count from the initial value. For example, set the initial value to 001 and the end value to 100. The current print value is 100, and the next print value is 001.



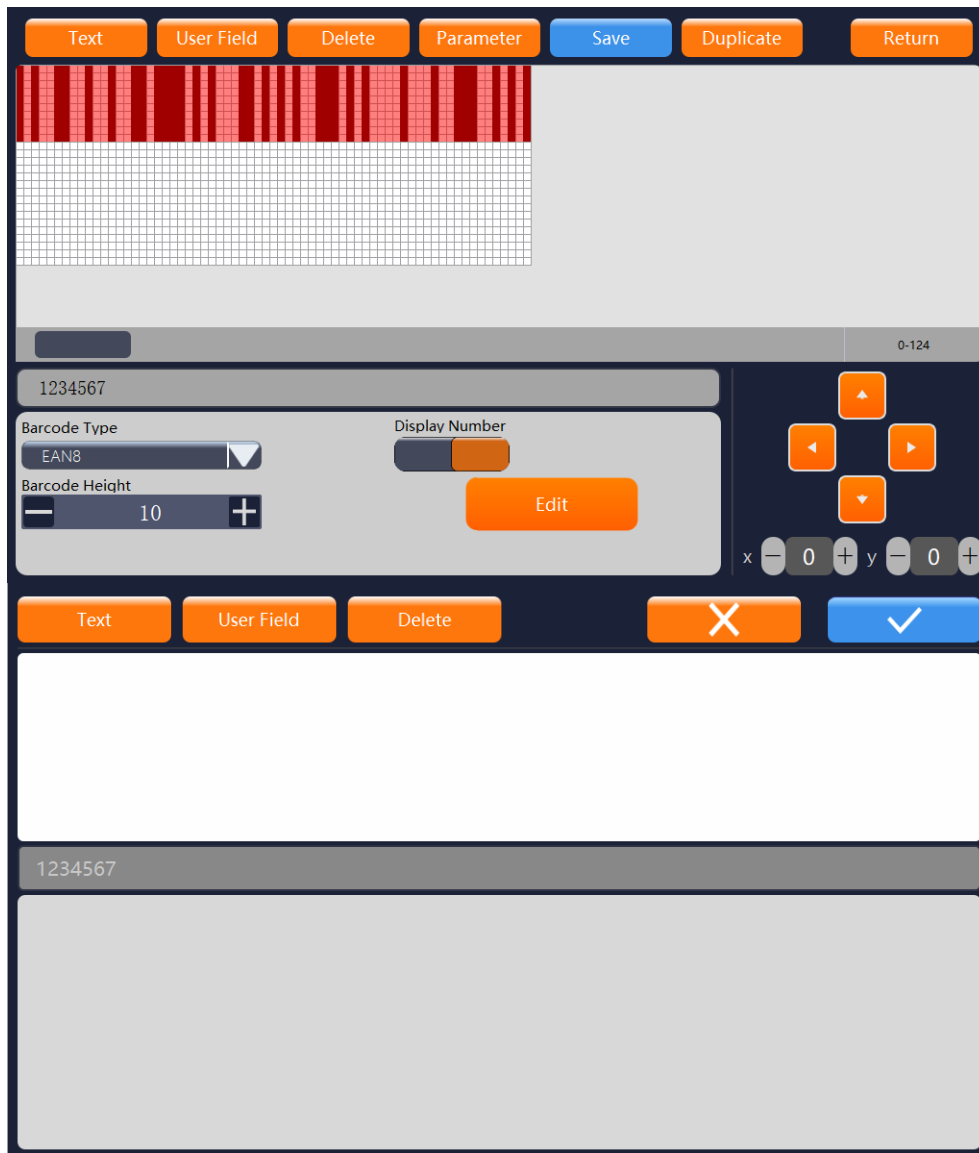
Barcode

Click "User Field" - "Bar Code" to add bar code module. The system supports seven bar code types: EAN8, EAN13, UPCA,UPCE, CODE39, EAN128(GS1), CODE128.

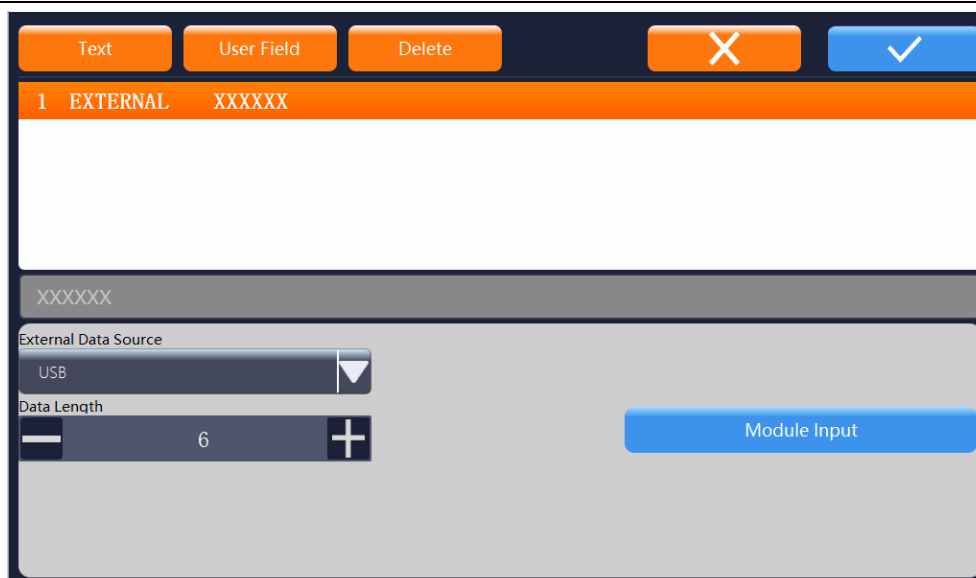
Display digit When the display number is turned on, the digital content of the barcode will be displayed at the bottom of the bar code.

Bar code height Fine-tune the bar code height by the button +/-, or directly click the number to modify the height.

Editor Click "Edit" button, pop up the interface as shown below, enter the bar code content editing (text and user area content module can be placed), at this time you can drag the module to change the order between modules, you can also click the delete button to delete the module.





Template input It is often used to solve the "XXX..." used when editing bar codes and two-dimensional codes. While the actual printing content has a mixture of digital and English, resulting in the difference between the actual printing size and the editing size, you can input one of the actual printing content into the template by entering the template to keep the bar code and two-dimensional code size of the editing and printing.



The types supported by the bar code module EAN 8, EAN 13, CODE 39, UPC, EAN128(GS1), CODE 128.

Delete and exit To delete an added bar code module, press the Delete button on the interface to delete the selected bar code module.

Press the Return button  to return to the upper-level menu without performing any operation. Press the OK button  to save and return to the upper-level menu.

2D code

Click "User Field" - "2D Code" to add the QR code module. The optional QR code categories are QR Code and D Matrix.



By default, the height and width of the 2D code are correlated with different categories. This unit supports a maximum of 78 characters.

QR code level Provide 4 kinds of precision QR code, respectively LOW, MEDIUM, QUARTILE, HIGH. Generally, reducing the accuracy level of QR code can improve the recognition rate of QR code printing.

Editor Click "Edit" button, the interface as shown below will pop up, enter the content editing of QR code (text and user area content module can be inserted), at this time, you can drag the module to change the order between modules, or click the button of the module to delete the module.



Delete and exit To delete an added bar code module, press the Delete button on the interface to delete the selected bar code module.

Press the Return button  to return to the upper-level menu without performing any operation. Press the OK button  to save and return to the upper-level menu.



Shift code

Click "User Field" - "Shift" to add the shift module. The shift module is set as follows.

Font selection: Available in 5x5, 7x5, 9x6, 12x8, 16x11, 19x14, 24x17.

Start time: Set the time from the first shift.

Editing Class: Click the "Edit" button to enter the shift settings. Classes can be set 1-10, each class consists of class characters and the length of each class, unnecessary classes can be empty.

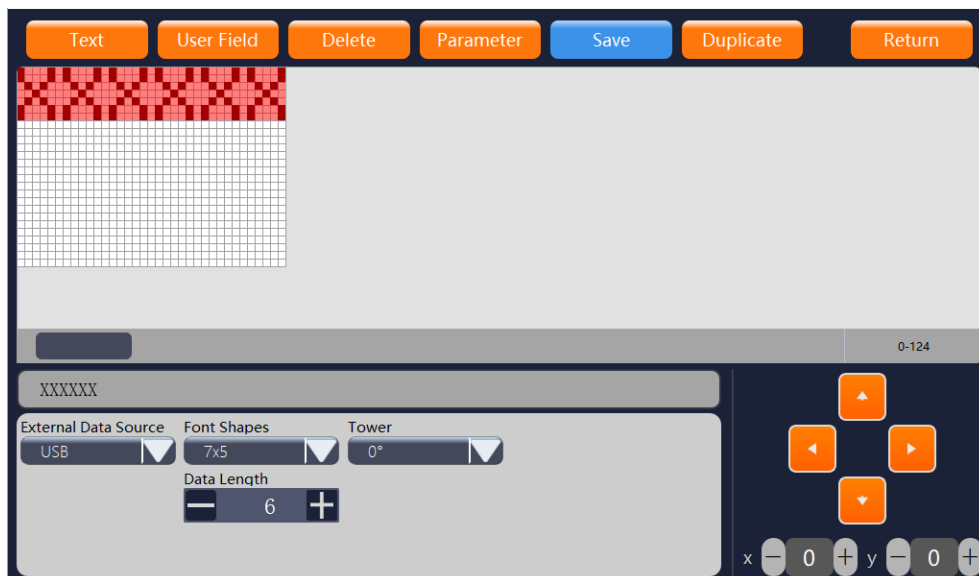
Press Cancel to return  to the upper-level menu, press the confirm button  to save and return to the upper-level menu.

Note: When setting class duration, the total duration of all valid classes should not exceed 24 hours in principle.



External

Click "User Field" - "External" to add the external data module. The external data module is set as follows.



External data source: TXT file imported from USB or real-time data of the RS485 port.

Print control mode: This setting takes effect only when RS485 is selected. Four modes are available: SEQUENTIAL, TRIGGER, OVERWRITE, and RS485 CONTROL.

Font selection: Available in 5x5, 7x5, 9x6, 12x8, 16x11, 19x14, 24x17.

Data length: Adjust the length of the external data module as required. If the data length value is greater than the external data, the first part of the data is supplemented by 0; if the data length value is less than the external data, the

last few bits of the data are intercepted. The maximum length is 100 characters.

The differences between the 4 modes are as follows:

| Print mode | Queue or not | Whether to continue with the previous one | Overlay or not | Whether to use RS485 to trigger printing |
|---------------|--------------|---|----------------|--|
| SEQUENTIAL | YES | NO | NO | NO |
| TRIGGER | YES | YES | NO | NO |
| OVERWRITE | NO | NO | YES | NO |
| RS485 CONTROL | YES | NO | NO | YES |

USB external data source: See USB External Storage Device Management.

RS485 external data source

OneByOne : The transmitted information is printed in the order in which it is transmitted.

Overwrite : Print only the latest message transmitted to the printer.

OneByOne-Last Repeat : The transmitted information is printed in the transmission order. If the transmission of information to the inkjet printer is stopped, the next printing of the inkjet printer will print the last transmitted information.

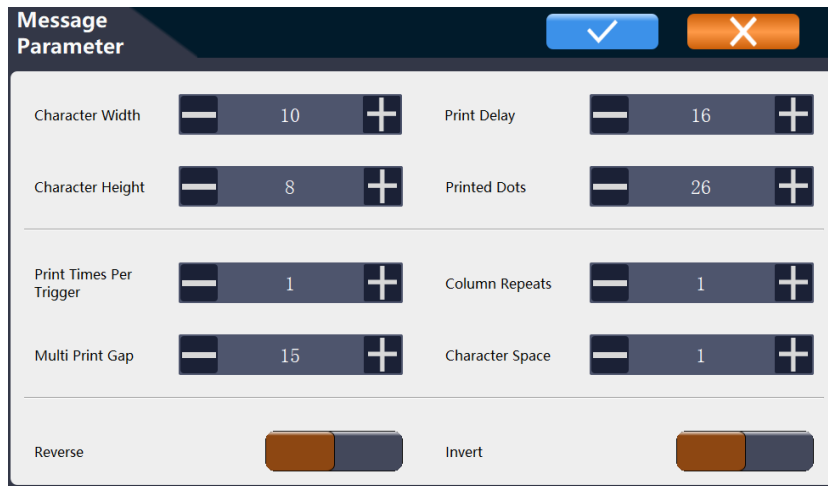
Trigger : After receiving the printing information, execute a printing immediately.

Delete

When a module is selected, click the "Delete" button on the toolbar to delete the module, which can not be restored.

Message parameter

o edit information parameters, click the "Information Parameters" button on the toolbar of the information editor to enter, or click "Edit" button in "File Management" on the main interface to enter, as shown in the following figure:



| Parameters | Range | Instructions |
|-------------------------|---------|--|
| Character Width | 0-1000 | The larger the value, the wider the print font is drawn, and the parameters are adjusted according to the actual effect. |
| Print Delay | 0-10000 | After triggering the printing action, the printing font is delayed for a certain time, the larger the value, the longer the delay time, and the parameters are adjusted according to the actual effect. |
| Character Height | 0-10 | The larger the value, the higher the print font is pulled, and the parameters are adjusted to see the actual effect. |
| Printed Dots | 1-34 | Standard with a maximum of 34 dot matrix, here can be set less than or equal to 34 dot matrix height, the smaller the number of points, the smaller the height of the information, if the value of the font to be printed is greater than the set print number parameter, then the printed character will be incomplete (truncated). |
| Reverse | On/Off | Toggle character reversal (right to left) printing. |
| Print Times Per Trigger | 1-99 | After triggering the printing action, continuous printing several times. |
| Multi Print Gap | 0-10000 | When the 'single trigger print number' is greater than or equal to 2, the duration of each print interval during continuous printing. |

| | | |
|-----------------|--------|---|
| Column Repeats | 0-10 | Number of repetitions per ink dot. |
| Character Space | 0-9 | The larger the value, the larger the spacing between the printing fonts, and the parameters can be adjusted according to the actual effect. |
| Invert | On/Off | Toggle character inversion (upside down) printing. |

After setting [**reverse print**] and [**inverted print**], the printing effect is as follows:

| | |
|---------------------|------|
| Normal print effect | ABCD |
| Reverse print | DCBA |
| Inverted print | QCBQ |

After all parameter Settings are completed, press the button in the upper right corner of the screen to return to the main interface of the information editor. All Settings do not take effect. Press the button to save the parameter values just set and return to the main interface of the information editor.

Attention:

Adjust the above parameters to make the actual printing effect meet the requirements. Different parameter combinations will have different printing effects.

The product delay time and message length depend on the production line speed and the resolution of the encoder. The actual effect needs to be determined by adjusting the message parameters.

Information adjustment Parameter applies only to the current information and does not affect other information. You can configure different information independently.

Save and copy

Save

Click the "Save" button to save the current field.

Copy



Click the "Copy" button, enter the new name and save the current field.

Return

When the field file is saved or saved as, click the "back" button to exit the editing state, and the system returns to the main interface of the field editor.

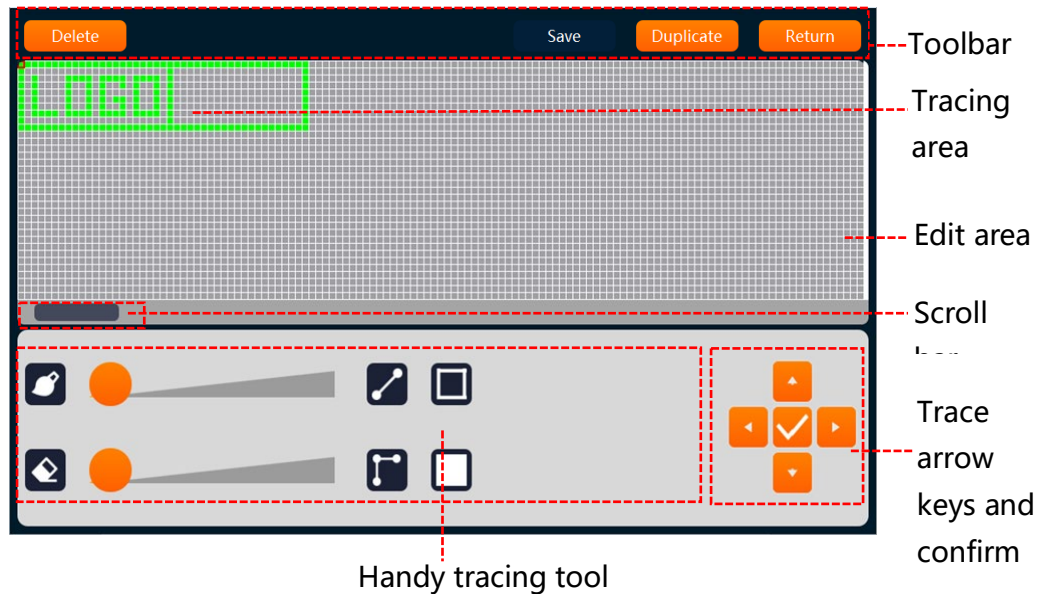
◦

When the field file in the edit is not saved, click the "back" button, and the system will pop up a prompt dialog box whether to save:

- Click the button  to do not save the information, and the system returns to the main interface of the information editor. All Settings do not take effect.
- Click the button . The system saves the current editing file and returns to the interface of the information editor.

Graphics editing

Main screen



Operate

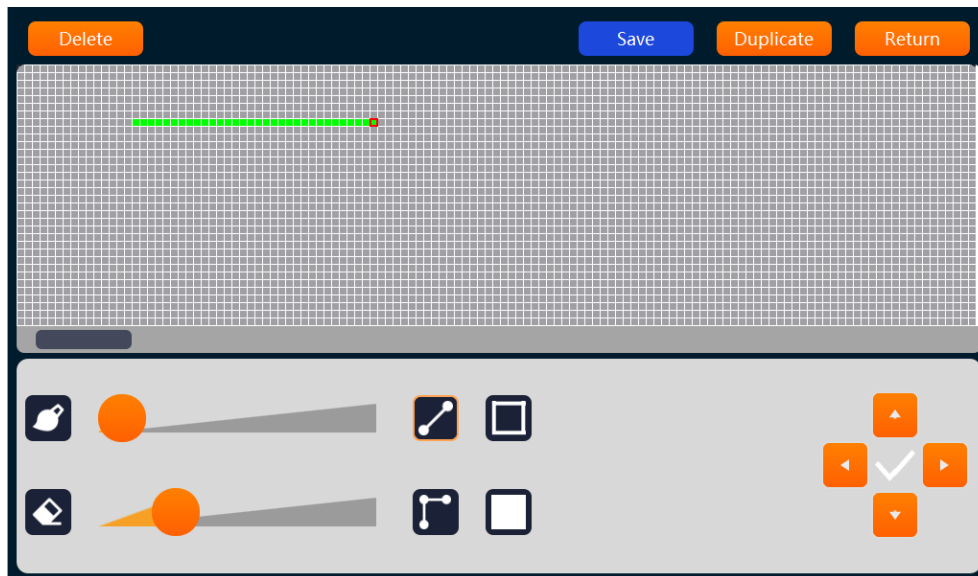
Tracing point

The default height of the logo editor is 34 points and the width is unlimited. You can randomly click to determine the anchor position, or you can move it by the left and right arrow keys, and then click the button to confirm the tracing point. Select the location of the traced point and click the button again to cancel the traced point.



Cursor movement



With or without using the drawing tool, you can do this by clicking "up ^ down v left < Right >" Key moves the cursor.

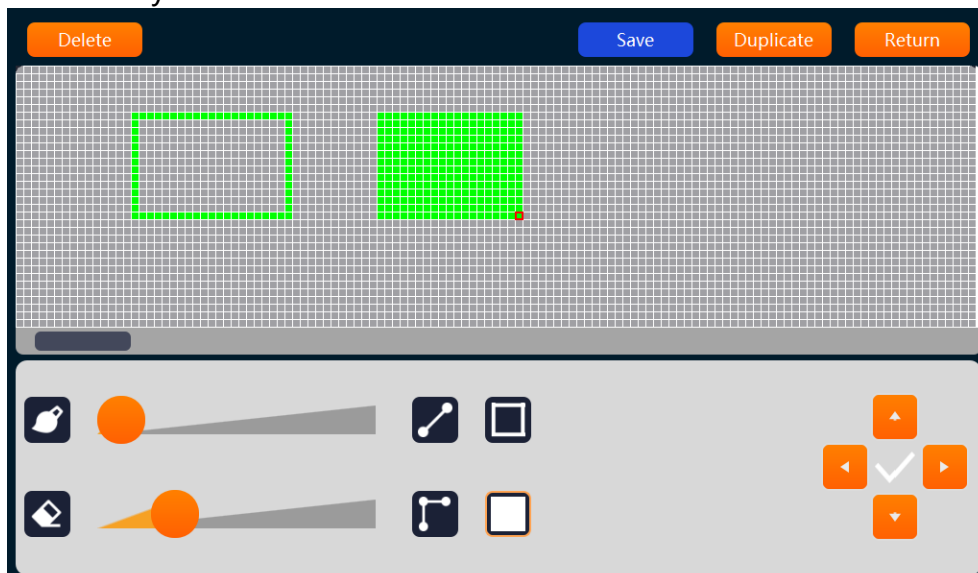
Without using the drawing tool, click the key to color the position of the cursor.







Handy tracing tool

No fill rectangle strokes (left picture below): After pressing the button , from the current position as the starting point, the stylus moves on the screen until it is released to form a non-fill trace point. Or from the current position as a starting point, click the anchor position of the next point to form a no fill trace point. Finally click the key  OK.

Rectangle fill trace point (right picture below): After pressing the button , from the current position as the starting point, the stylus moves on the screen until it is released to form a filled rectangle. Or from the current position, click on the anchor position of the next point to form a filled rectangle stroke. Finally click the key  OK.





Straight line point: After pressing the button , from the current position as the starting point, the stylus moves on the screen until it is released to form a straight line tracing point (bottom left picture). Or take the current position as the starting point and click the anchor position of the next point to form a line trace point. Finally click the key  OK.

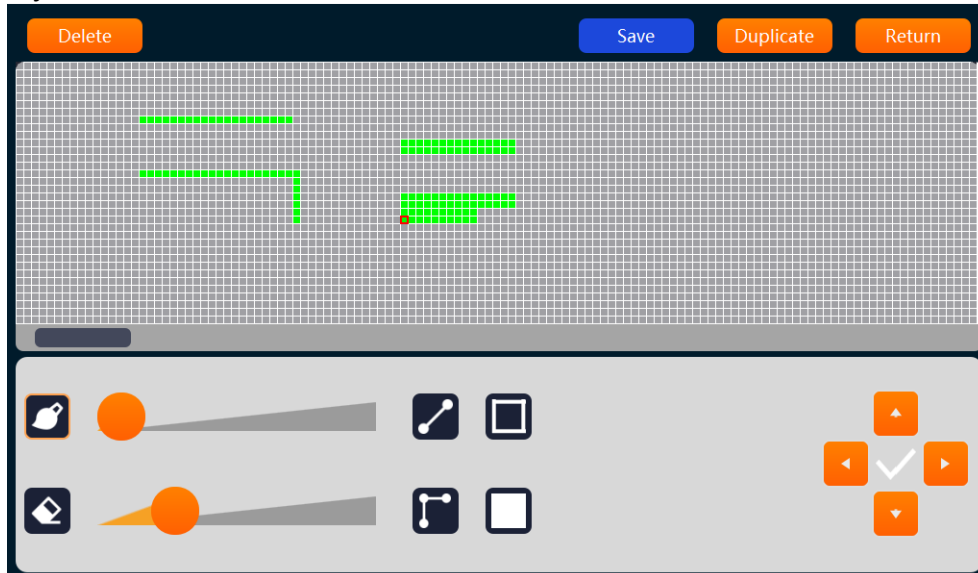
Fold trace point: After pressing the button , from the current position as the starting point, the stylus moves on the screen until it is released to form a line tracing point (bottom right picture). Or from the current position as a starting point, click the anchor position of the next point to form a line trace point. Finally click the key  OK.

Brush Tool: Slide the right circular icon left and right to adjust the size of the brush, and combine the stroke tool to achieve the painting of different thickness patterns.

Eraser tools: Swipe the right circular icon left and right to resize the eraser to clear the color of the square where the cursor is located.

Press the "Delete" key. In the "Do you want to clear the pattern" dialog box, select the "Cancel" key . Cancel or confirm the "delete" key .

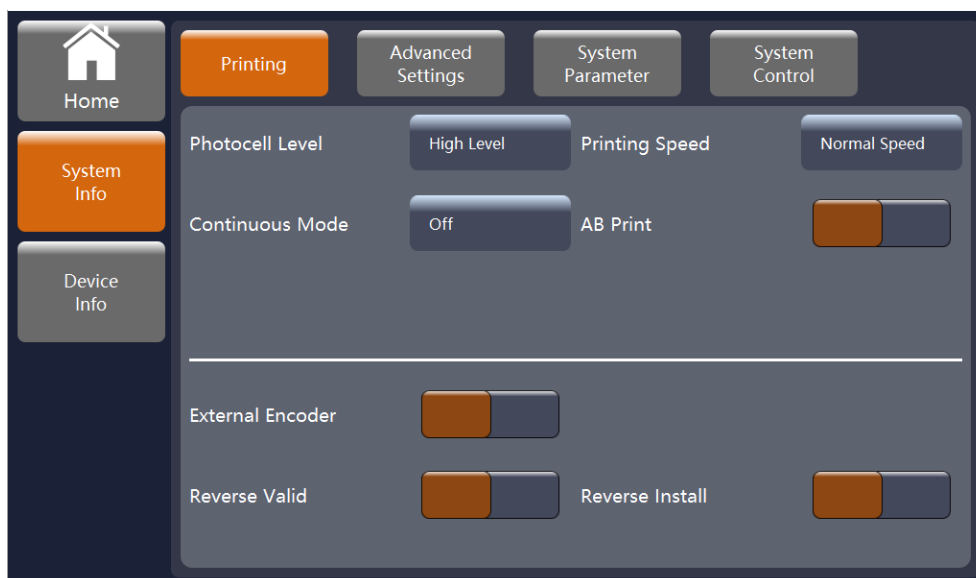
Press the "Save" key or "copy" key, directly save the pattern or pop-up naming dialog box, enter the file name to save the pattern, press the "back" key to add a first-level menu.



System setup and configuration

System setting

Print setting



Photocell level: Can select low-level trigger or high-level trigger. When the photoelectric sensor is used, the high-level trigger sensing the product is inkjet, the low-level trigger sensing the product is inkjet, and the low-level trigger is selected when the encoder or time mode continuous inkjet is used.

Printing speed: There are four levels to choose from: High quality, Normal, High Speed, and Super speed.

External encoder: When the encoder is connected, open the external encoder option. When "Reverse Install" is turned on, the encoder reverse also has an effect.

Reverse valid: Set the reverse read speed direction.

Continuous mode: In continuous printing mode, the printing information can be repeated multiple times without the need for an external signal to trigger the printing repeatedly. This option works if information must be printed at fixed times or intervals on continuous products, such as pipes or cables. The following table describes the functions and Settings in different modes.

| Continuous mode | Instructions |
|-----------------|---|
| Off | In this mode, an external signal is required to trigger printing, or manually click the "Print" button on the main interface. |

| | |
|---------------|--|
| Time mode | Print continuously at set intervals. |
| Encode mode | Print continuously with the set unit of pulse interval of the encoder. |
| Interval mode | Print continuously at set print intervals. Calibration: When there is a difference between the actual printing interval and the set printing interval, click the "Calibration" button, enter the actual printing interval on the pop-up page, and then calibration can be determined. |

Note: For production lines with unstable or variable operating speeds, a synchronizer can be used to obtain a stable print width.

When printing spacing is offset in interval mode, seek maintenance engineering assistance.

AB print: Select the built-in information file named MSG_A or MSG_B. A/B printing is automatically enabled, and A/B printing is triggered by photocell 2.

Note: When performing external reverse printing, two photocell ports need to be triggered at the same time, and the trigger signal of the photocell 2 should be ahead of the trigger signal of the photocell 1, and continue until the end of the printing.

Advanced setting

External inversion/External reverse: After opening, the printing effect is the same as the setting of "Information parameters".

External counter reset: The counter in the message resets.




The above operation only works when the photoelectric eye 2 is used, and the setting has no effect in other cases.

Device setting

Password management

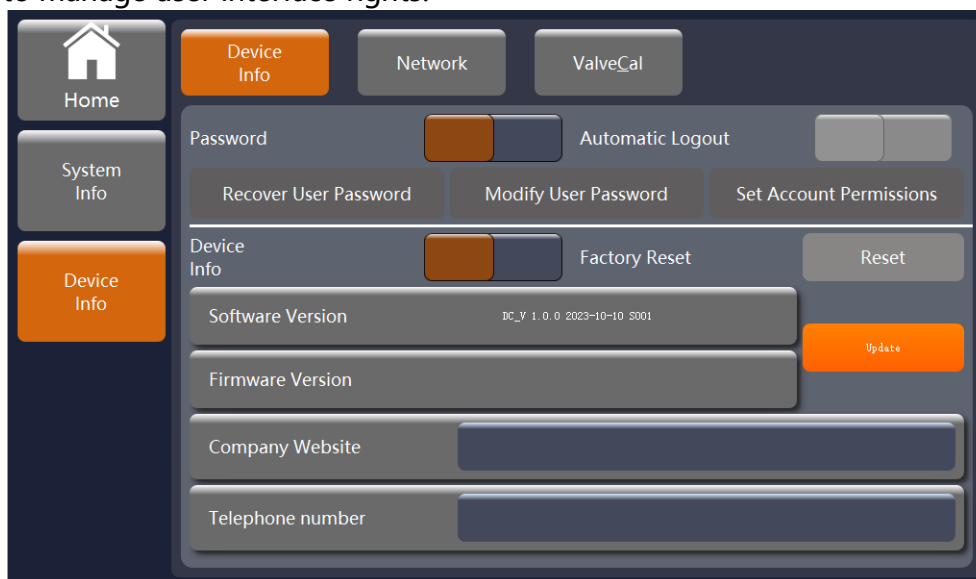
You can perform the following operations by turning on the password management switch:

Recover user password Click restore user password.

Modify user password Click the Modify button, click the Cancel button  to exit the modification, click the Confirm button  to enter the new password setting, enter the new password on the keyboard, and press the OK button  to complete the modification.

Automatic logout Click this button to log out.

Set account permissions It is an administrator operation right, which is used to manage user interface rights.



Valve testing and calibration

Solenoid valve test Click the switch button under any solenoid valve, and the solenoid valve will perform a switch valve operation to monitor whether the solenoid valve is normal.

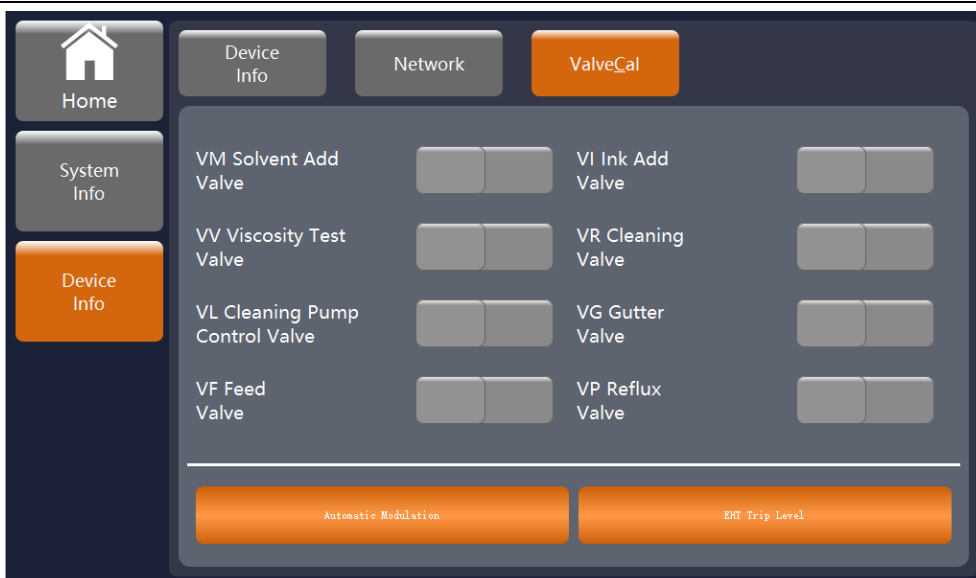
Automatic modulation When the ink line is opened and no high pressure is added (release the nozzle cover knob), click the "automatic modulation" button, and the inkjet printer will automatically calculate and set the ink dot modulation value.

When automatic modulation is enabled, a dialog box indicating that it is being modulated will appear;

After the automatic modulation is completed, a success or failure prompt box will pop up. The new value after modulation will be displayed on the screen when the automatic modulation is successful.

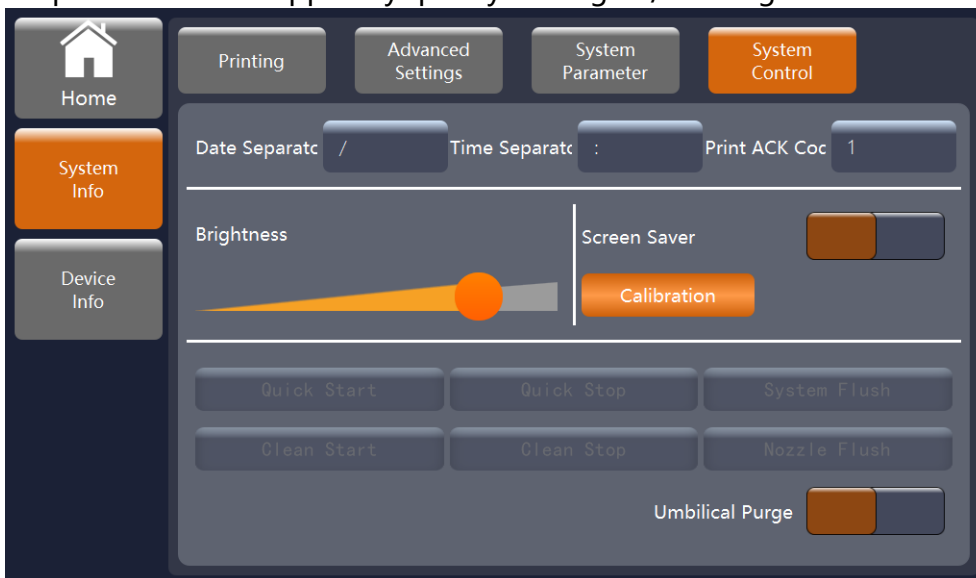
EHT trip level When the ink line is not opened and the high voltage is added (tighten the screw of the nozzle cover), click the "ultra high voltage trip setting" button, the inkjet printer will automatically monitor the site environment humidity, calculate the current threshold that is most suitable for the current environment, and write it into the inkjet printer system.

When setting the ultrahigh voltage trip, a dialog box is displayed indicating that the ultrahigh voltage trip level is being set. When the setting is complete, a success or failure dialog box is displayed.



System control

The default startup and shutdown procedures are "Clean Start" and "Clean Stop". If the cleaning startup/cleaning stop procedure cannot be performed, the printer can be stopped by quickly turning on/cleaning the nozzle.



Note (The following operations can only be performed with the permission of the system engineer) :

- Need to temporarily shut down the inkjet printer, the expected shutdown time is less than half an hour, you can use the "quick stop".
- Normally use the inkjet printer, within half an hour from the last shutdown time, you can use "quick start".
- If the preceding functions are used, the ink line may stain the components of the sprinkler when it is started. Therefore, you need to manually

clean the components.

Factory data reset

Enter "Parameter" - "Device Info", click "Reset" to restore factory Settings.

Note: Back up your data before restoring factory Settings.

Maintenance

Printer maintenance

Maintenance schedule, the following table describes the cleaning and maintenance schedule:

| Time | Mission |
|--------------------|---|
| Every week | Check the nozzle and clean it if necessary. |
| Every two weeks | Clean the inkjet chassis. |
| | Check pipes and joints. |
| Every month | Clean the high voltage deflector, charging electrode, phase detector and recovery tank. |
| Every 2000 hours * | Replace filter before nozzle, clean cabin dust. |
| Every 9999 hours * | Replace the ink tanks and clean the pipe. |

* The actual time interval depends on the operating condition and is set during installation.

Visual inspection

The following checks should be performed daily.

Chassis and cables

1. Check the cables and connectors for damage or wear.
2. Check the inkjet machine chassis and nozzle throat for damage, wear or ink leakage.
3. Report any faults to maintenance engineers.

Nozzle

1. Stop inkjet before check, and disconnect the inkjet printer power supply.
2. Turn the screw on the nozzle cap counterclockwise and loosen it.

3. Remove the nozzle cover.
4. If significant ink buildup is visible, clean the inside of the lid.
5. Check the inside of the nozzle and the nozzle cap for ink buildup. Cleaning is necessary.

Cleaning

Cleaning nozzle

Due to the unique automatic cleaning on/off program of the inkjet printer, the nozzle can run for a long time before it needs to be cleaned. However, only daily inspection and regular cleaning of the nozzle can maintain its optimal performance and system stability.

1. Turn the power supply switch to the off position and turn off the power supply.
2. Loosen the screws and check for ink buildup on the nozzle.
3. If necessary, use a cleaner or soft brush that matches the type of ink used to clean the nozzle.
4. Dry the nozzle and make sure there is no residual cleaning agent in the slot of the charging tank.
5. Reinstall the nozzle cap and tighten the nozzle cap screws.

Clean the high voltage deflector plate

In order to prevent the accumulation of conductive ink residues, the surface of the high-pressure deflector plate should be cleaned. Use tissue paper and a solvent, or use a soft brush from the recommended cleaning kit.

Clean the inkjet chassis

Schedule regularly -- every week.

1. Use a vacuum dust collector or a soft brush to remove dust from the printer.
2. Wipe the outside surface of the printer with a damp rag. A soft cleaner can be used to remove difficult stains.

Ink and solution added

Periodic - when indicated on the display.

1. Open the ink system compartment door as needed and replace with a new solvent cartridge (right) or ink cartridge (left).
2. Check that the number of the ink or solvent specified on the label is consistent with that used by the inkjet printer.

Daily troubleshooting**The printer does not start**

Check the system status indicator or external alarm light (if installed) to determine if there is a system failure or if user intervention is required.

A. If the red or orange indicator lights up, check the display for ICONS and supplementary information.

B. If the green light is on and the inkjet printer does not print:

1. Make sure the information is selected.
2. Verify that the correct print mode is selected from the Print menu.
3. Verify that the product sensor and external synchronizer are connected and working (a light on the back of the product sensor will flash whenever a product passes through the sensor).
4. If the fault persists, report the fault to maintenance engineers.

C. If no system status indicator lights up, check the power supply as follows:

1. Verify that the power button is on (pressed).
2. Verify that the power supply is correctly connected.
3. Check that the power supply is normal.
4. If the fault persists, report the fault to maintenance engineers.

The print position is incorrect

A. Verify that the product delay value set in the Information parameters menu is correct.

B. Make sure there is no extra space at the beginning of the message.

The print size is incorrect

A. Verify that the character height is set correctly.

B. Make sure the distance from the nozzle to the product is correct. When the inkjet printer prints the product outwards, the character height increases and the resolution decreases.

C. Verify that the correct font is selected in the message.

D. If the field width is displayed too long, reduce the width value set in the Field Parameters menu.

E. If the field width is displayed too short, increase the width value set in the Field Parameters menu.

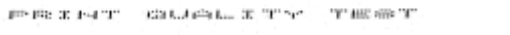




The print is incomplete

A. Check that the value of Print Points set in the Field Parameters menu is equal to the maximum number of points required for print. .

B. Check the nozzle for ink residue and clean it if necessary.

The print quality is not good

The following table shows examples of poor printing and explains the causes and the steps required to correct the failure.

| Examples and reasons | Solution |
|--|---|
|  <p>The charge value is set too low. Notice that the bottom line sinks from the main character. The optimal printing height cannot be achieved.</p> | <p>Contact maintenance engineers to obtain the correct calibration charge value.</p> |
|  <p>The printing arrangement is abnormal, or the nozzle is partially blocked. The high pressure may be too low.</p> | <p>Clean the nozzle. Perform nozzle flushing and rinse nozzle thoroughly. Make sure the recovery tank is clean.</p> |
|  <p>Phase error. To correct the unreached drop position, spray the surrounding area extensively.</p> | <p>Make sure the modulation value is set correctly. Clean and dry the nozzle thoroughly. Enable scrolling phase. Make sure there is enough time available between printing and phase.</p> |
|  <p>The modulation is not correct, the charging is not good.</p> | <p>Clean the nozzle, correct the modulation with automatic modulation, and ensure correct Settings.</p> |
|  <p>The pressure is too high, the ink droplets do not deviate correctly, and the ink droplets penetrate each other.</p> | <p>Set the pressure correctly - Re-enter the pressure using the second-to-last digit of the FIN number. (Usually 32).</p> |

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|---|--|
| <p>PRINT QUALITY TEST PRINT QUALITY TEST</p> <p>Pressure is too low, ink droplet deflection is excessive or inaccurate positioning. It is possible to lose the most deflected ink droplets.</p> | <p>Set the pressure correctly - re-enter the pressure using the second-to-last digit of the FIN number (usually 32).</p> |
| <p>PRINT QUALITY TEST</p> <p>Nozzle deviates from surface material. The ink spots are too far apart longitudinally by the air flow.</p> | <p>Reduce the distance from the printed object, or choose an appropriate font.</p> |
| <p>PRINT QUALITY TEST</p> <p>The printing direction is not perpendicular to the production line direction.</p> | <p>Adjust to be perpendicular to each other.</p> |