

# 毕升手持打印机说明书

Besheng handheld printer user manual



官方公众号  
WeChat ID

温馨提示：由于机器固件不断更新，如需获取最新版本说明书，请通过微信公众号或官方网站下载。

Tips: As the machine firmware is constantly updated, If you need to get the latest version of the user manual, Please download it through WeChat ID or official website.



Besheng handheld printer

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## Summarize

Besheng handheld printer, designed with thermal foaming spray nozzle, which can be printed on a block board, box, stone, medium density fibreboard, stainless steel, pipe, metal, plastic, aluminum foil, cable, etc. Spray print content includes English, Chinese, figure , symbol, QR code, barcode, picture, time, date. In addition, handheld inkjet printer can also be directly inserted into the U disk to import information. Compared with other expensive hand handheld printer,"Besheng handheld printer is much more suitable for small-scale production.

## Packing list



Besheng handheld printer×1



instruction book×1



Powder adapter×1



U-disk×1



Ink cartridge×1

## Product Specification

**Model name:** Besheng handheld printer

**size:** 110mm\*90mm\*230mm

**Spray font:** High definition font, bitmap font

**Spray picture:** Input from u-disk

**Print precision:** Standard 300DPI, Quality 600DPI, Grayscale (4 gears adjustable)

**Spray line:** 1~7 lines adjustable

**Font height:** 2mm~13mm(adjustable)

**Spray distance:** 2~5 mm(nozzle and spray object distance)

**Spray direction:** 360-degree All-round spraying

**Serial number:** 1~8 variable

**Ink type:** Solvent ink and water-based ink (Solvent ink can be printed in plastic, glass, metal, pipe, stone, block board, medium density fibreboard, aluminum foil, cable, film and so on. water based ink is suitable for water absorbing materials such as paper and carton.)

**Data store information:** up to 200 messages can be stored

**Spray speed:** Up to 70m/min (continuous printing)

**Ink cartridge capacity:** 42ml

**External interface:** U disk

**Control way:** 3.5 inch touch screen

**Weight:** 550g (including ink and battery)

**System power consumption:** Average below 5w

**Environment temperature:** 0°C~40°C, humidity 10%~80%

**Support material:** Block board, carton, stone, medium density fiberboard, steel, tube, metal, plastic, aluminium, cable, paper

**Power:** DC8.5V-1A, lithium battery stand by time: 15 hours, print 7 hours

**Ink color:** black

## Introduction of button



① Nozzle protector

② Print roller

③ Touch screen

④ Print button

⑤ U disk, charger socket

⑥ Power LED indicator

⑦ Cartridge slot

⑧ Power switch

## Introduction of operation

### 1. install the ink cartridge

Please turn off the handheld printer while installing the ink cartridge. Press the side switch and then insert to the slot.



### 2. Power on/off



## Introduction of operation

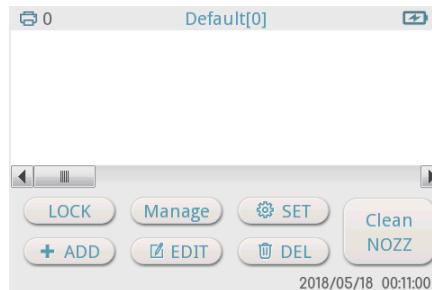
### 3. Editing interface



“LOCK”: In the locked state, content cannot be dragged.  
“DRAG”: Click “LOCK” to switch to “DRAG” state, drag content to any position. To adjust the font size to the finest, add up to seven lines.

“ADD”: Add text, picture, time, etc  
“EDIT”: Click your edit text first, then click the “EDIT”, will enter to the editing interface. You can adjust the size, Pitch, font format, and dot matrix.

“DEL”: Delete current text.  
“SET”: Set the system. Generally do not need to change settings, control printing standard - quality - black, look at the individual needs adjustment.  
“Manage”: To create a new template to save the information content.  
“Clean NOZZ”: Cleaning nozzle function.



### 4. Clean NOZZ



- ① Click interface “Clean NOZZ” to achieve cleaner nozzle function.
- ② Click “SET” button, enter the setting backstage interface.

## Introduction of operation

Delay:  Set Time  
Prejet:  EN  
Print CTL:  Scale 1 L->R  
DRV Mode:  Normal

OK Cancel

Delay:  Set Time  
Prejet:  EN  
Print CTL:  Scale 1 L->R  
DRV Mode:  Normal

OK Cancel

③ Prejet: “No move” means Just press the Print button before printing to quickly clean the nozzle function.

④ Prejet: “Close” means Turn off the quick cleaning function.

### 5. Print accuracy adjustment

Delay:  Set Time  
Prejet:  EN  
Print CTL:  Scale 1 L->R  
DRV Mode:  Normal

OK Cancel

Delay:  Set Time  
Prejet:  EN  
Print CTL:  Scale 1 L->R  
DRV Mode:  Normal

OK Cancel

Delay:  Set Time  
Prejet:  EN  
Print CTL:  Scale 1 L->R  
DRV Mode:  Normal

OK Cancel

Print CTL: “Standard” means 300DPI, “Quality” means 600DPI, “Scale1~4” means bold the font.

### 6. Printing direction adjustment

Delay:  Set Time  
Prejet:  EN  
Print CTL:  Scale 1 L->R  
DRV Mode:  Normal

OK Cancel

Delay:  Set Time  
Prejet:  EN  
Print CTL:  Scale 1 R->L  
DRV Mode:  Normal

OK Cancel

“L->R” means printing from left to right. “R->L” means printing from right to left.

## Introduction of operation

## 7. Delay setting

1. Click “setting” button, Choice “delay” The printing delay interval can be adjusted.

2. Adjusting the print delay interval, the smaller the value the shorter the delay.

Delay:	<input type="text" value="00050"/>	<input type="button" value="Set Time"/>	
Prejet:	<input type="button" value="No Move"/>	<input type="button" value="EN"/>	
Print CTL:	<input type="button" value="600DPI"/>	<input type="button" value="Scale 1"/>	<input type="button" value="R-&gt;L"/>
DRV Mode:	<input type="button" value="Synchronizer"/>	<input type="button" value="Normal"/>	
<input type="button" value="OK"/>		<input type="button" value="Cancel"/>	

## 8. Time setting

Delay:	<input type="text" value="00050"/>	<input type="button" value="Set Time"/>
Prejet:	<input type="button" value="No Move"/>	<input type="button" value="EN"/>
Print CTL:	<input type="button" value="600DPI"/>	<input type="button" value="Scale 1"/>
DRV Mode:	<input type="button" value="Synchronizer"/>	<input type="button" value="Normal"/>

Year:	<input type="text" value="2018"/>
Mon:	<input type="text" value="04"/>
Day:	<input type="text" value="28"/>
Hour:	<input type="text" value="14"/>
Min:	<input type="text" value="32"/>
Sec:	<input type="text" value="11"/>

**OK**      **Cancel**

Click “Set Time” button, can reset the time of system.

## 9. Language setting

Language includes EN/S CN/ T CN/ Czech.  
(Updating the language in SETTING )

Delay:	<input type="text" value="00050"/>	<input type="button" value="Set Time"/>	
Prejet:	<input type="button" value="No Move"/>	<input style="outline: 2px solid red; border-radius: 5px; padding: 2px;" type="button" value="EN"/>	
Print CTL:	<input type="button" value="600DPI"/>	<input type="button" value="Scale 1"/>	<input type="button" value="R-&gt;L"/>
DRV Mode:	<input type="button" value="Synchronizer"/>	<input type="button" value="Normal"/>	

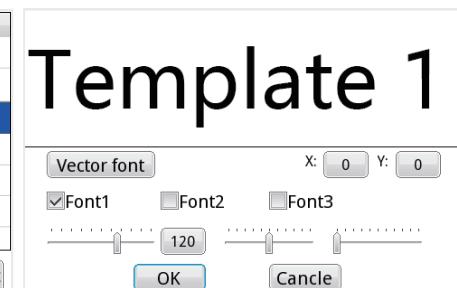
## Introduction of operation

## 10. Manage information

Click “manage” button, you can store different content information templates. You can switch to your content at any time.

A screenshot of a software interface titled 'Default[0]'. At the top left is a document icon with '0' next to it. On the right are icons for 'Edit' and 'Delete'. Below the title is a large empty white area. At the bottom is a toolbar with several buttons: 'LOCK' (disabled), 'Manage' (highlighted with a red oval), 'SET' (disabled), 'Clean NOZZ' (disabled), '+ ADD', 'EDIT', and 'DEL'.

MSG Name	Modify time
Default	2017/12/20 15:07:34
WEER	2017/11/30 11:27:17
template1	2017/12/30 15:29:02



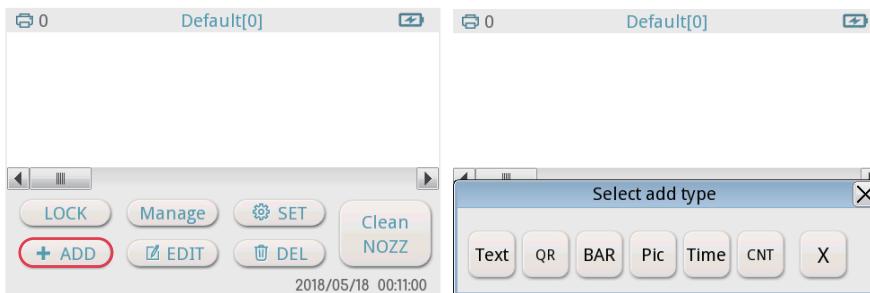
**“New”** means you can set up a new template, typing the information you want to print. It will save automatically.

MSG Name	Modify time
Default	2017/12/20 15:07:34
WEER	2017/11/30 11:27:17
template1	2017/12/30 15:30:02
template1_COPY	2017/12/30 15:29:01

- “copy” means copy a same template
- “Rename” means rename the template.
- “DEL” means delete the file.
- “Select” means select your file.

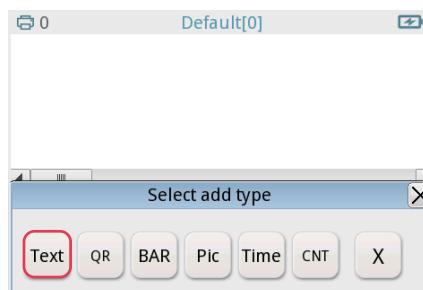
## Introduction of operation

### 11. “ADD” button



Select your file, includes text, QR code, BAR code, Picture, Time, and count.

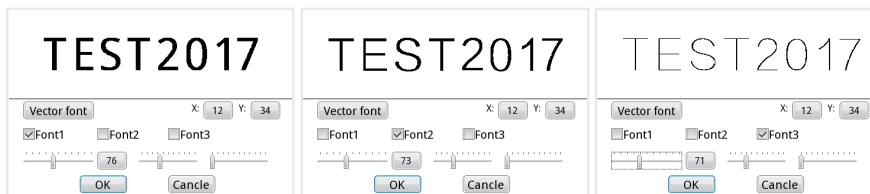
### 12. “TEXT” button



1. Click “TEXT” button, you can add Chinese, English, number and date

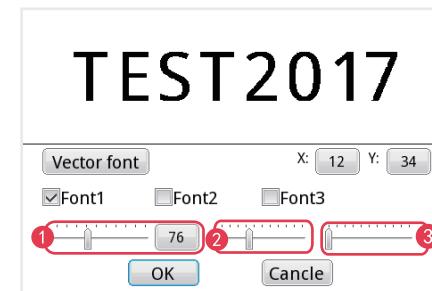
2. The font of text: Enter the text font, there are three vector fonts and three kinds of Bitmap fonts. Bitmap fonts is adjustable.

### Vector font effects are as follows



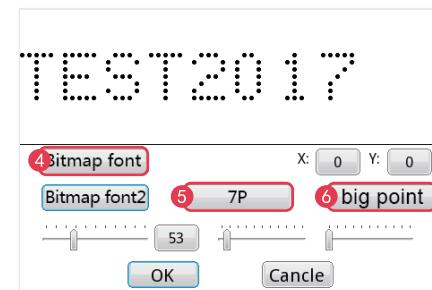
## Introduction of operation

### Character size adjustment and spacing adjustment



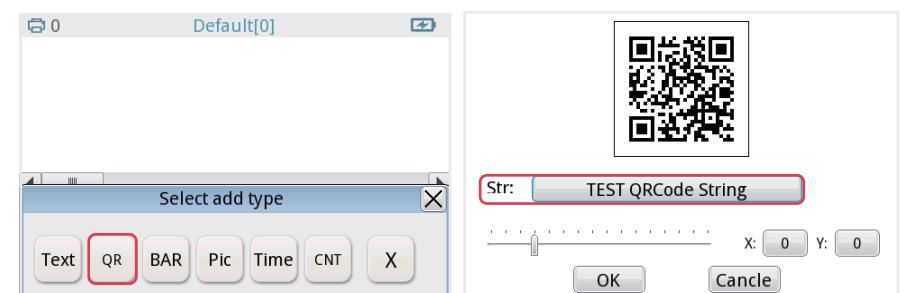
- ① The first sliding bar, to adjust the size of the current text. Or directly input a value, range: 20 to 180.
- ② The second sliding bar, to adjust the size of the current text.
- ③ Third slide bar, can adjust the spacing between each character.

### Setting of bitmap fonts



- ④ Click “Vector font” switch to “Bitmap font”.
- ⑤ Or directly input a value, range: 5p, 7p, 11p, 16p, 24p, 32p. Small point, middle point, big point. For Chinese, it can only print with 11p and 16p.
- ⑥ Small point, middle point, big point.

### 13.QR code setting

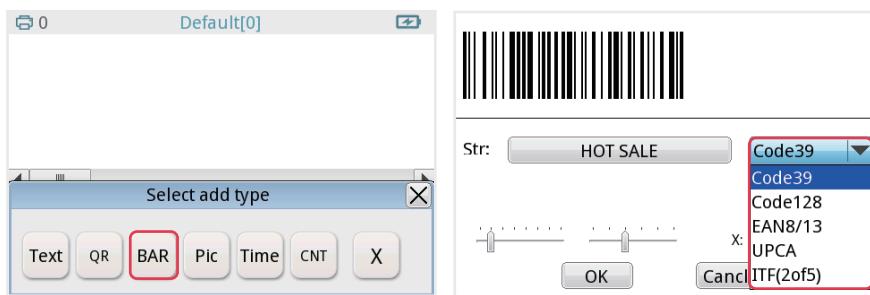


Click “QR”, you can input website, number, text, etc.

NOTE: if you need to input the code of wechat and website link, you need to input with “picture”.

## Introduction of operation

### 14.BAR code setting



Click “BAR”, then input the number. You can choose five type of bar code.

Including Code128, code39, EAN8/13, UPCA, ITF(2of5)

### 15.Picture setting

Steps are as follows,

- 1) The biggest size is 800px\*150px(px means pixel). You need to set the size of the picture firstly.
- 2) Use windows system- accessories- paint, Save as type will be “Monochrome Bitmap(\*.bmp,\* .dib)”.
- 3) Then input the picture to U- disk. U disk connected to the handheld printer, then Click “Pic” to choose your file from the u disk.



File Name	Size
OOO.BMP	1KB
R.BMP	1KB
DG_BIG.BMP	1KB
合格.BMP	1KB
DUIGOU.BMP	1KB

→ click “Refresh” button

File Name	Size
OOO.BMP	1KB
R.BMP	1KB
DG_BIG.BMP	1KB
合格.BMP	1KB
DUIGOU.BMP	1KB
T168.BMP	1KB

→ click “selected picture” (adjust height and width)

## Introduction of operation

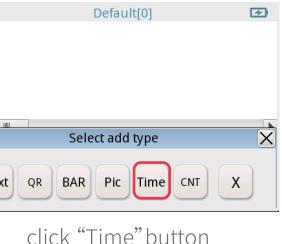
### 16.Time setting

Click “Time” button, it will print the current time.

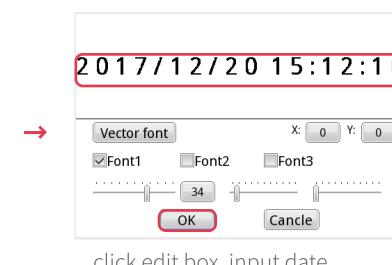


Power on

click “ADD” button



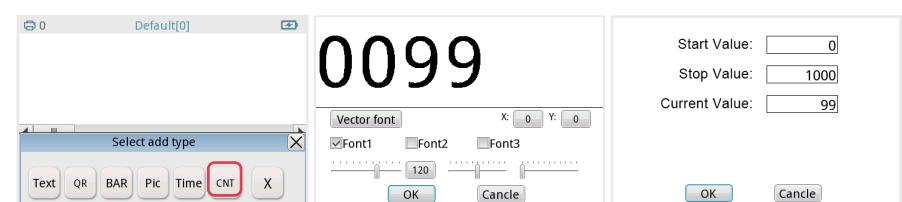
click “Time” button



click edit box, input date

→ click “OK”  
print (LED blue means printing)

### 17.Calculate setting

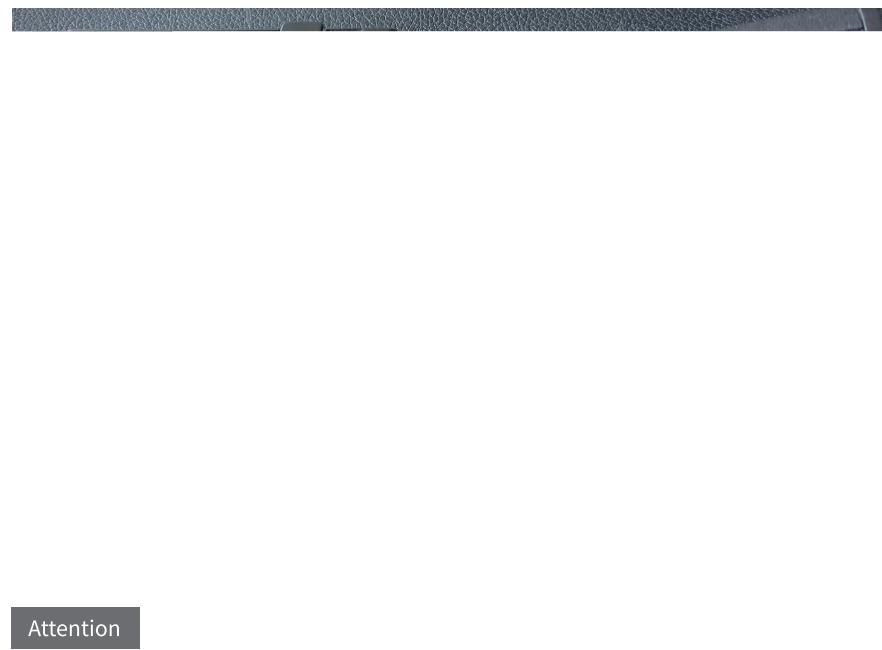


Click “CNT”. Calculator: counter, serial number, record number of prints, click on parameter settings, 1-8-bit variable sequence number, end value up to 99999999.

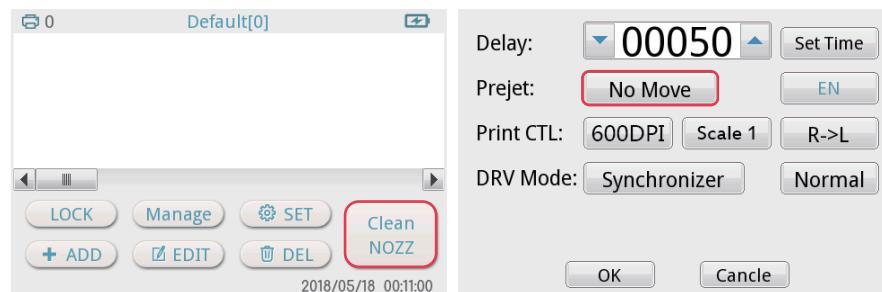
### 18.Printing operation

Turn on the power switch, after the system starts, press the print button on the handle. Blue light means printing. You should press the button while printing. There will be a “Di” prompt tone during printing and after printing.

## Introduction of operation



Attention



1) At the beginning of interval printing(non-continuous), the first word might be blurred.

Due to the fast drying ink, all of the handheld printer meets the same problems.

2) Add “Prejet” function.

Choose “No move” in the prejet. Then you can press the print button before printing. It will quickly clean the nozzle.

If you want a deeper color, please choose “quality” or “Scale”.

## Solution of common problem



01. What to do if the printer cannot print?

- Please confirm whether the printer showing display data or not.
- Please check the printer rubber is loose or fall off.
- Please check whether the ink cartridge have ink



02. What is the difference between water-based ink and solvent ink?

- Water-based ink is made of Chinese ink. Support materials include non-coated (matte) cartons, fabrics and other absorbent material.
- Solvent ink is made of imported fast-drying ink. Support material includes food, drink, cosmetics, household products, plastics, glass, metal, pipe, stone, wood board, MDF, aluminum foil, cable, leather, white paper carton and other materials.

\*NOTE: Water based ink cartridge and solvent ink cartridge are not common. Only supports corresponding hand held printer.



03. What's the height range of the font ?

Printing size: 2-12.7mm, adjustable. Font size 2mm It can print 6 lines, width 1mm; Total height is 1.27cm ; You can add multiple content combinations. Click the first lock on the main interface screen and change it to dragging. Then you can select content and place it to your desired position. After that you can continue to add other content information.



04. Can we erase it?

No ink is indelible. Most ink could be cleaned up by alcohol. It depends on the material of a product, which has different adhesive force to ink. Generally, the bright surface is easy to wipe, and the matte and frosted cover is difficult to clean.

## Solution of common problem



### 05. What's the capacity of ink cartridge? How long can I use it?

The cartridge, changeable when used up, is 42mL in capacity. A cartridge can print more than one million large characters, or several millions in smallest size. Toner life depends on how it actually works. There may be less than one month when frequently used or up to one year when rarely used. The cartridge is very durable, high-definition and resistant to loss. It comes with exclusive protective cover. When you finish using, you should close it in case nozzle is dried out, which also effectively stay nozzle from clogging and prolong the life of the machine.



### 06. How to do when the nozzle has been leaking fluid?

- There will be some leakage while using the ink cartridge. Because it will ensure that the ink cartridge can be used.
- For long periods of stop, please seal the cartridge with its special cap. Please be careful not to damage the nozzle.
- If the nozzle leakage serious, please take to supplier for maintenance.



### 07. What fonts does it include? If the size can be adjusted?

It has six fonts with adjustable size, including physical and bitmap one. You can directly input any Chinese, English, date, lot number, 1-8 variable order, QR code or bar code by clicking on the screen without connecting to a computer. Only pictures, like a logo, need to be inserted by U disk and edited by a computer. Different content information can be saved in the machine at the same time, and you can switch them any time. (up to 200 messages can be stored)



### 08. Can it print on small objects or an uneven surface?

- Tips: It triggers synchronizer by rolling pulley to make the handheld printer runs normally. Therefore, the product is required to be flat, and the

## Solution of common problem

length of it should be longer than 10cm. If it is a small size, it is necessary to use a matched mold steel plate, but it may be troublesome and inefficient. When the surface of a product is curved, it may not print well. As for the things like the bottom of a can which is recessed, the printer cannot work on it completely because printing distance is too far which makes the ink scatter. The printing distance is required within 3mm.

- There are 8 holes reserved on the bottom plate that can be designed and fixed on a shelf as a small platform. When printing, you do not need to hold the iron plate by hand again. Hold the item directly under the iron plate.



### 09. The angle of the placement?

In order to prevent the nozzles from drying, the nozzles are positioned downward when the inkjet printer is not used.(As the follow picture)



### 10. How to maintain the cartridge if we don't print for long-period?

- Turn off the handheld printer.
- Put some soft and clean paper or cloth on the front of the nozzle and save it with its special cover. Please note that don't damage the head of ink cartridge.
- To prevent dust intrusion, please store the machine in a dry place and keep in a temperature range of 5°C to 40°C.

## Solution of common problem



### 11. Can it print QR code and BAR code?

- If you print numbers and letters, you can enter it directly on the machine. If you want to scan to website or wechat, you should transform it to picture (\*.bmp, \*.dib).
- Please follow the NO.15 Picture setting in Part Five "Introduction of operation".



### 12. Ink cartridge Precautions?

- Be sure to turn off the machine before loading and unloading the ink cartridge.
- Because the ink cartridge is quick-drying, it is necessary to close the nozzle protection cover when the machine is not used for more than 5 minutes in order to prevent the nozzle from drying. In the course of use, there may be a little wire drawing, missing line, and blurs, all of which are normal conditions.
- If there are problems such as wire drawing, Missing line, and blurs, Please try the following methods:  
Method 1: Use a soft paper towel to gently wipe the sprinklers up and down until the print is clear.  
Method 2: Adjust printing grayscale.
- 4. The ink cartridge is a consumable item (not covered by the warranty). Once the ink cartridge is opened, it should be used within one year.



### 13. First word fuzzy?

- The first word at the beginning of interval printing may be blurred, but continuous playing will not.
- Solution: Just click the print button to warm up the machine before printing, which is equivalent to clicking on the "Clean NOZZ" function on the screen. A small amount of ink may be ejected. Please pay attention to the nozzle pointing.



### 14. Will it be system halted while using?

Now the system is upgraded to the latest version of the situation, if will be system halted with the previous version. If there is still a problem, you can delete all the templates and create a new one.

## Warranty card and Maintenance record

### Warranty card

1. Warranty: 12 months. Free maintenance during warranty period, except for wearing part.
2. Any of the following circumstances is not covered by the warranty.
  - 1) Did not use, store or protect as the description in the manual.
  - 2) Take apart the machine without manufacturer authorization.
  - 3) Without a warranty card or unauthorized modification of a warranty card.
  - 4) The model in the warranty card is inconsistent with the type of product.
  - 5) Caused by force majeure.
  - 6) Agreed to another agreement.
  - 7) No use of the company's consumables.

#### Customer information

Model:

Model NO.:

Customer name:

TEL:

Other:

#### Manufacturer information

Company name:

Address:

Contact:

TEL:

Other:

#### Warranty period:

DATE      MONTH      YEAR to      DATE      MONTH      YEAR

#### Signature of manufacturer:

(In order to enable you to get timely and effective service, please keep this warranty card properly and show it when it is repaired.)

### Maintenance record

Model Name

Failure phenomenon

Model NO

Actual problem

Customer Name

Solution

Warranty period

Note

(After each maintenance, the maintenance team should fill in it and tear it out and file it.)