Version Number: TIJ20240826

T230E Series High Resolution Inkjet Printer



OPERATION AND MAINTENANCE MANUAL

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Significant issues

- When the machine is powered on, it is forbidden to plug or unplug any cables!
- Do not unplug ink cartridges in printing status!
- In order to ensure that the machine achieves the best printing results, it is recommended to use the specified model of ink and accessories. Non-specified models of ink and accessories can easily cause problems such as machine failure and poor printing results.
- Equipment failures caused by failure to follow this manual are not covered by the product warranty.

Safety Notes

After the printer is powered on, there is high voltage inside the machine. It is forbidden to carry out maintenance and disassembly of the equipment without professional training and unauthorized personnel to avoid accidents.

When installing the printer, you must install a ground wire, and confirm that your ground wire is reliably connected to the earth; if the ground wire is not reliably connected, the device may not work properly.

Do not place the ink in direct sunlight or high temperature storage (over 35°), otherwise it will affect the ink jet printing effect and shelf life.

If ink accidentally splashes on your eyes or skin during use, please rinse it off with water immediately.

If the ink leaks into the printer, please immediately shut down and cut off the power; when the ink penetrates into the device, please ask a professional to check, otherwise it will cause the device to burn.

The following symbols are used in the manual. If these symbols appear next to a program or caution side, then they have the same importance as the written warnings and tips.



Must wear protective glasses.

Must wear protective overalls. use suitable protective gloves. Check the relevant safety data sheet (SDS).



The power supply of the equipment must be disconnected.



This step can only be done by trained personnel.



Be careful with electrostatic discharge (ESD). Anti-static measures must be taken. Wear a grounded antistatic wristband.

- Do not wear clothing that may accumulate electrostatic voltages.
- Antistatic (ESD) protective bags should be used when shipping printed circuit boards.

• Printed circuit boards can only be placed on mats made of materials that eliminate electrostatic voltages and are properly grounded.



Please note

Before using this inkjet printer, please read this instruction to avoid loss.

Preface

This manual is the instruction manual of T230E high resolution inkjet printers. We hope it can bring help to your work.

This manual is used to guide the operator how to use the printer, it contains the following contents:

Precautions for use	Introduction of inkjet printer Introduction to the composition of inkjet printer
Installation instructions	Introduce the installation instructions
Starting the printer	Introduce the general quick operation of the printer, start/stop the printer
Operating instructions printer	Explain in detail how to create/edit printing data and related settings of the
Maintenance	Arrangements for maintenance of printers and ink cartridges
Troubleshooting	About common printer and ink cartridge failures and solutions

How to Use this Instruction

Before the first use of the inkjet printer, please read this manual carefully, please pay attention to the relevant matters; when you encounter problems in the process of use, please first check the corresponding chapters and record the relevant problems; if still can not be resolved, please contact us.

The Company has the right to regularly update the contents of this specification without prior notice. The update will be added to the new version of the specification.

Note: Equipment failure caused by failure to operate according to this specification is not covered by warranty.

Chapter1 Matters needing attention in the use of inkjet printer

Thank you for using this printer, in order to ensure personal safety and machine installation, ease of use and ensure that you can make full use of the machine's features, for your rights, please read this instruction carefully.

1.1 Installation Precautions

- 1.1.1 The power supply of the printer should avoid sharing power with other equipment. It is recommended to install an uninterruptible power supply (UPS);
- 1.1.2 The bracket should be avoided to be installed in the location with vibration or swing;
- 1.1.3 High-quality printing requires a stable production line or conveyor belt;
- 1.1.4 The production line is equipped with guide plates to prevent the printed materials from hitting the nozzle and causing damage to the equipment;
- 1.1.5 Ensure that the printer is well grounded;
- 1.1.6 The distance between the guide plate of the printer body and the object to be printed is recommended to be 0.5-2.5mm;
- 1.1.7 When installing or removing ink cartridges, please make sure to insert and remove the ink cartridges at a 15 angle to avoid damage to the ink cartridges;
- 1.1.8 Do not install the machine in an environment with too much dust for a long time. If the environment customer cannot change it, the dust must be removed regularly.



1.2 Operational considerations

- 1.2.1 Touch screen is prohibited to poke and collide with hard objects;
- 1.2.2 Eye of the equipment must not be blocked, otherwise it will cause inability to print;
- 1.2.3 When the printing effect is missing or blurred, please use non-woven cloth to wipe the nozzle surface;
- 1.2.4 When the printing position changes, please set the printing delay to achieve the best printing effect;
- 1.2.5 Do not insert or remove the ink cartridge in the printing state to avoid damage to the machine circuit;
- 1.2.6 It is strictly forbidden to use compressed air to directly clean the touch screen, high-pressure compressed air will damage the touch screen;
- 1.2.7 It is strictly forbidden to use compressed air to directly or indirectly clean the ink cartridge, which will damage the ink cartridge;
- 1.2.8 When the printer fails, please refer to Chapter 7 for solutions to common problems. To solve the fault, please contact our after-sales service department.
- Note: According to the characteristics of different models of ink, some models of ink cartridges must be pulled out after the printing machine is turned off, wipe the nozzle surface with a non-woven cloth and use the cartridge clamp to prevent the nozzle from clogging (details please Consult our after-sales service for relevant ink characteristics).

Chapter2 Installation Notes

This chapter introduces the product packing list, equipment and ink cartridge installation. **2.1 Packing List**

When you open the package, please check each part one by one according to this packing list to confirm whether id is complete. If there is any omission, please consult us immediately.



2.2 Equipment Description



Figure 2-2 T220E Online inkjet thermal inkjet printer-host

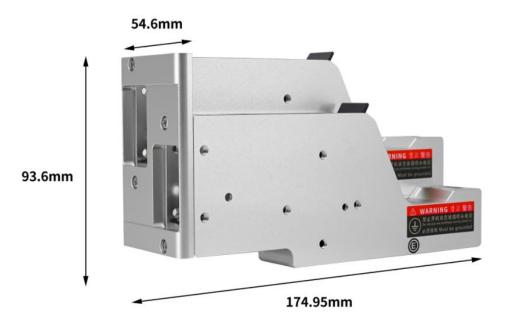


Figure 2-3 T230E Online inkjet thermal inkjet printer-print head

Chapter 3 Port Introduction

3.1 External ports

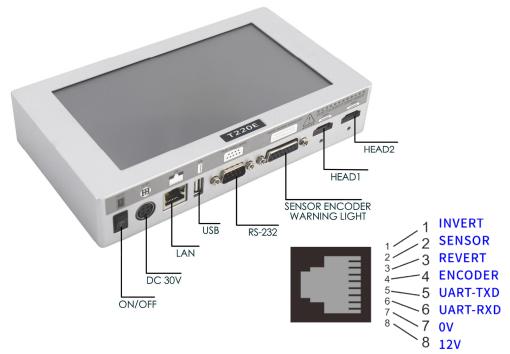


Figure 3-1 T220E Online inkjet thermal inkjet printer host switch and interface

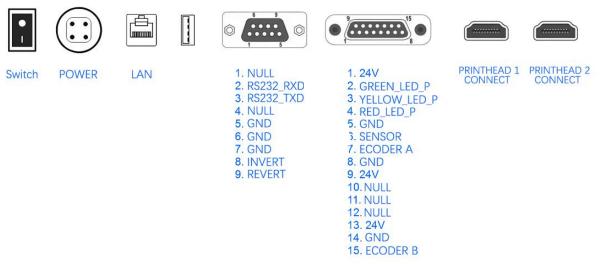


Figure 3-2 T220E Online inkjet thermal inkjet printer external interface

Machine Type T230E Parameter Nozzle type TIJ 2.5 thermal foaming nozzle Nozzle number 1-2, can be matched independently Maximum: 300DPI*300DPI Vertical optional:100DPI,150DPI,300DPI Printing accuracy Horizontal optional:30-600DPI Single printhead maximum:25.4mm Print Height Double printheads maximum:50.8mm Printing distance Best printing distance 1-2mm 203m/min(90DPI) 152m/min(120DPI) 、 120m/min(150DPI) . Printing speed 60m/min(300DPI) Text, time, date, logo, shift, serial number, dynamic barcode/QR code, dynamic serial data, dynamic database Printing (Additional content can be added as required) Barcode type: parameters CODE11,C25INTER,CODE39,EXCODE39,EAN13,EAN13x,CODE128,CO Print content DE16K,CODE49,CODE93,Flattermarken,UPCA,UPCE,EAN14,VIN,NVE18 QR code type: ORcode.DataMatrix.MicroORcode.PDF417.PDF417TRTRUNC.MICROPDF 417 (More types can be provided on demand) Carton, plastic, metal, sheet, pipe, stone, cable, glass, electronic components, auto parts, industrial chemical packaging, medical food gift Printing material box Food grade, water-based, oily, weak solvent, solvent Ink type Ink color Black, white, red, yellow, blue, green, invisible, UV Contactless RFID tags for automatic identification and recording ink cartridge chip parameters and consumptions Operating system Embedded Linux security operating system Main hardware Cortex-A7 1.2GHz dual-core processor/FPGA algorithm acceleration chipset Communication USB、RS232、TCP/IP Network interface Interface External interface Optical eye, Encoder, Alarm outputs The nozzle is installed independently and can be matched with Nozzle installation anti-collision components Machine parameters Support more than 40 national languages (Chinese, English, Arabic, Danish, German, Russian, French, Finnish, Korean, Japanese, Spanish, Support language Italian. etc.) Power parameters 30Volts 3Amps DC output Machine material Aviation grade aluminum / Industrial Stainless steel Machine Controller: 192mm*113mm*37.6mm specifications Printhead group: 174.95mm*93.6mm*54.6mm Working Temperature 0-45°C/ Humidity 30-70%Rh environment

3.2 Technical specifications

Chapter 4 Quick Start Guide

This chapter takes the online machine T220E as an example to introduce how to simply operate the printer, including quick operation and preparation and inspection before and after use.

4.1 Confirm before use

SN	Items	Confirmation work
1	Inkjet printer bracket	Is the mounting bracket of the printer locked and is the production line running stable?
2	Printer location	Is the position of the printer correct, and is the nozzle surface parallel to the object being printed? Is the printing distance controlled within 2-5mm?
3	Ink cartridge	Are the nozzles of the ink cartridges wiped clean, and are the RFID chips stuck to the exact position of the ink cartridges?
4	Input power	Is the input voltage of the printer normal? Is the matching adapter (charger) used?
5	Printer information	Check the printer information, is the operating status normal, is the display interface complete, and is the screen touch effective?
6	Optical sensor	Is the installation distance of the optical sensor distance reasonable?

4.2 Quick steps

SN	Step		Explanation
1	Install cartridges	Insert the cartridge to cartridge	printer at 15 angle, and push the cartridge buckle to fix the
2	Power on	Insert the power adapter (handheld is the charger) into the power interface of the printer; connect the controller and the nozzle with the nozzle cable, and make sure it is tight; after the printer is powered on, turn on the power switch and enter the main interface of the system.	Figure 4-1

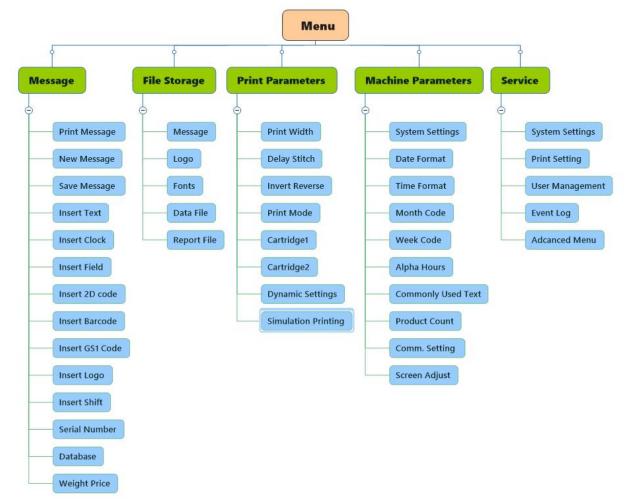
3	Menu - Message	After the device is turned on, enter the main interface of the system, and click the "Message" button in the " Menu" column; then click the "Insert Text" button.	Menu 001 01-07-2020 15:08:23 Equipment failure (202) Not Ready Start Printing Message File Storage -
4	Insert text	After clicking the "Insert Text" button, enter the printing content in the "Text" field, adjust the size and direction of the printing content and other parameters. After clicking the "OK" button, the system will return to the "Message" interface and enter the next step.	Image: Menu III 01-07-2020 I4:44:50 Equipment failure (202) Not Ready Start Printing Number Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Text: Number Image: Start Printing Image: Start Printing Image: Start Printing Image: Text: Number Image: Start Printing Image: Start Printing Image: Start Printing Image: Text: Number Image: Start Printing Image: Start Printing Image: Start Printing Image: Commonly us Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Direction Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image: Start Printing Image:
5	Send Print - Start Printing	After inserting the text to be printed, click the "Send Print" button and long press the green "Start Printing" button for about 2 seconds to release, the green "Start Printing" button should change to the red "Stop Printing" display, this means has entered the printing state.	Image: Menu 101 01-07-2020 14:42:32 Equipment tailure (202) Not Ready Start Printing Image: Menu 101 01-07-2020 14:42:32 Image: Menu Image: Menu Image: Menu Start Printing Image: Menu 101 01-07-2020 14:42:32 Image: Menu
6	Stop Printing	After printing, press and hold the "Stop Printing" button for about 2 seconds to release, the red button "Stop Printing" changes to green "Start Printing" display, the device stops printing	Image: Menu 101 01-07-2020 14:42:32 Equipment failure (202) Not Ready Start Printing Image: Menu 101 01-07-2020 14:42:32 Equipment failure (202) Not Ready Start Printing Image: Menu 101 01-07-2020 14:42:32 Equipment failure (202) Not Ready Start Printing Image: Menu 101 01-07-2020 14:42:32 Equipment failure (202) Not Ready Start Printing Editing Area Zoom: 100 % Message Name: 9.msg Image: Printing Cost Image: Printing Co
7	Turn off the power	After stopping print	ing, turn off the device power switch

4.3 Check after use

SN	Items	Checking work	
1	Printer power	Has the printer been powered off?	
2	Ink cartridge	Has the ink cartridge been removed from the print head, wiped clean and covered with the cartridge clamp? Note: If you do not print for more than 30 minutes, please remove the ink cartridge and replace the nozzle protection cover.	

Chapter 5 Instruction of inkjet printer

This chapter introduces the detailed operation of the printer, including: information editing, file management, printing/machine parameters, and service menu.



5.1 Main menu interface

Turn on the	Menu 101 06-07-2020 Please Acknowledge Alarm Not Ready Start Printing	
power switch of the printer, after	Message	
the device is	File Storage	
turned on, click	Print Parameters	
the "Unlock" button, the system	Machine Parameters Zoom: 100 % Message Name: 4.msg Ink margin	
lock interface is	Services lumns: 4515 Row Cartridge Cap. : 42 ml	
released, click the	Homepage s: 122763 Drops Cartridge Price: 980 Dollar	
"Menu" button, the main menu	nts: 10691 PCS Printing Costs: 0.092 Dollar/Pcs	
interface pops up.	Print Message New Message Save Message Insert Text Insert Clock Insert Field Save Field	
(Figure 5-1)	Figure 5-1	
Message	Insert, modify, edit the print content (5.2 for details)	
File Storage	Management of data files, logo storage, fonts, print reports, etc. (5.3)	
Print parameters	Printing effect setting, printing mode conversion, cartridge parameter	
	setting and other operations (5.4 for details)	

Machine	Communication settings, system language, software update, time code and
parameters	other settings (5.5 for details)
Service	Device information, user management, advanced menu and other operations (5.6 for details)
Homepage	After returning to the main interface of the system, it can realize functions such as count reset, serial number setting, and screen lock (5.1 for details)
Subtotal reset	Subtotal reset reset
SN. control	Quick control serial number

5.2 Message

Click the "Message"	Image: Menu Menu Menu Menu Menu Menu Menu Menu Start Printing Menu Menu <th>ig</th>	ig	
button from the main	14.42.32		
menu to enter the			
message editing	new text		
operation interface.			
(As shown in figure		-	
5-2, 5-3, 5-4)		<	
Among them, the zoom of	Editing Area Zoom: 100 % Message Name: 9.msg		
the editing area can be			
set to 5%-500% size	Message Columns: 722 Row Cartridge Cap. : 42 ml		
display.	Message dots: 16676 Drops Cartridge Price: 980 Dollar Cartridge Prints: 78705 PCS Printing Costs: 0.012 Dollar/Pcs		
Ink cartridge capacity			
and unit price: the	Print New Save Insert Insert Insert Insert Save Insert Insert	>	
settings can be	Figure 5-2		
adjusted according to		_	
user needs.	InsertInsertInsertInsertSerialDatabase2D codeBarcodeLogoShiftNumberDatabase	>	
Ink level: Only the	Figure 5-3		
cartridges with RFID			
can read the ink level	C Insert Weight GS1 Code Price	>	
	Figure 5-4		
Start printing	Need to press and hold for 2 seconds to start (Note: whe	en	
B	the red alarm in the alarm bar, the printing cannot be		
	started, you need to solve the alarm failure first)		
Print Message	Every time if the information is edited and changed, you need to clic	ck	
1 mit Wiessage	"Print Message" to update the printing content		
New Message	Create a new message and edit the name of the message		
Save Message	Save the current printing information to facilitate later recall. Be sure		
	to save the edited information before creating new information.		
Insert Text	Insert and edit the information content that users need to print		
Insert Clock	Insert date or time in different formats for printing		
Insert Field	Get the fields to be printed from the serial port or the scanner		
Insert 2D code	Insert QR, DataMartix, PDF417 and other QR codes		
Insert Barcode	Insert EAN13/14, UPCA, CODE11 and other barcodes		
Insert Logo	Insert logo file from U disk or local device		

Insert shift	Create shift codes in 24-hour clock system format
Serial Number	Create a serial numbering system and insert the system into the
	message
Database	Print the .TXT (text file, tab separated), .CSV (comma separated) or xlsx files in sequence which specified in the local or U disk file.
Insert GS1 code	Insert a barcode that complies with the GS1 standard
Weight price	Connect external equipment (such as weighing machine), insert string, weight, price data information

5.2.1 Insert text

Click the "Insert Text" button to enter the text editing interface. You can insert and edit the information that the user needs to print. The user can adjust the required font size. The font size range is controlled within 5-1200 (T1 series font control range is within 5-400), which can be moved through the touch screen. The position of the text or accurate positioning through the X-axis and Y-axis positions. Note that the printing area will be incomplete if it exceeds the printing range. Click the selected text to edit the text. (Figure 5-5)	Image: Menu Int One-could be and the second se
Text content	Click the text content input box, after the input method keyboard pops up, enter the information to be printed (the earth icon in the lower left corner of the keyboard, click to switch the input method)
Common text	Call commonly used information text (see step 5.5.5 for details)
Сору	Copy the text information in the current text edit box
X, Y axis position	The position of the text can be moved through the touch screen or accurately positioned through the X-axis and Y-axis positions.
Direction	Set font orientation (90 degree, 180 degree, 270 degree rotation)
Font Size	Set the font size (the setting range is $5 \sim 1200$)
Font	Choose different fonts according to your needs, the choice is the installed font
Space	Adjust the spacing between fonts in the text $(-30 \sim 30)$, the greater the value, the greater the spacing

5.2.2 Insert clock

Click the "Insert Clock" button to insert the date or clock in the message. The format and offset value of the clock or date can be set from the options, and the date/time format can be edited, added, or deleted as needed. (Figure 5-6)	Menu 112 01-07-2020 Equipment failure (202) Not Ready Start Printing O 2 0 0 7 0 1 Clock Content Date - Date Format yyyyMMdd - Clock offset 0 Day 0 Hour Direction 0 - X-axis 140 Y-axis 48 Font Size 80 Font Abyssinica :- Space 0 - Cancel OK Delete Properties copy Figure 5-6	
Clock content	Choose to insert date or clock information	
Date format	Choose the format of the date, you can choose yyyyMMdd, yyMMdd, ddMMyyyy, ddMMyy and other formats, or you can edit and add the format according to your needs (see 5.5.2)	
Time format	Select the format of time, you can set the format of hh: mm: ss, hh: mm, hhmmss, mmss, ss, etc., or you can edit and add it according to your needs (see 5.5.3 for details)	
Clock offset	The user can set a certain clock offset and print a clock. The clock is a clock (date) derived from the main clock (machine time). The date offset is accurate to the hour to meet the production date update in advance.	
Note: The clock offset function can print the time before the main time of the machine, and can also print the time after the main time. The time before the main time of the printing system can be effective by adding a "-" before the variable. (This function is commonly used for printing food, fresh and other products)		
More Properties	The position, font, direction, spacing and other settings of the information on the X and Y axes (see introduction in 5.2.1 Insert text)	
Function key options	Cancel Return to the previous menu.	

5.2.3 Insert field

Click "Insert Field" to insert field	
information in the message. Field printing is achieved through externally acquired field	N
achieved through externally acquired field	IN
information.	
When you click "Data Source" to select	4

when you click "Data Source" to select the scanner as the field source, click the "Add Field" button, a field displayed as "Field0" will appear in the screen print editing area, continue to click the "Add Field" button, and the number of inserted fields will be constantly increasing; the operation is the

Menu 13	01-07-2020 14:46:29	Equipment	failure (202)	Not Ready	Start Pr	rinting
NUI	1					-
NOL						
Data Source	Scanner	Field Length	6	Field ID	0	*
Current field	Serial Port			Alignment	Align left	•
Font	Abyssinica : -	Direction	0 -	Space	0	•
Font Size	80	X-axis	0	Y-axis	0	
Cancel	ОК	Delete	Add Field	Update Data		
		Figure	- 5-7			

same when selecting the serial port in the	
"Data source". However, the inserted blank	
field is displayed as "NULL", when the serial	
port has sent data, the data content will be	
displayed.	
Data source	The field source can be selected from the
	scanner or from the serial port
Field length	The length of the field display
Field ID	When serial source is selected as serial port,
	serial number of serial data field is selected
Current field	Display current field content
	Ascii uses pre-generated ascii fonts for printing.
	The advantage of this method is faster speed;
Character set	unicode can type characters that contain Chinese
	or other non-ascii codes. The disadvantage is that
	it can't play that fast speed.
Alignment	Choice of left or right alignment
Add field	Add multiple fields (one field is shown in
Add field	Figure 7)
Undete Cald	e /
Update field	After clicking Update Field, scan the code with
	a scanner to get a new field. This function is
	only valid when the source of the field is a
	scanner
Function key options	Cancel Insert fields without going in, return to
	the previous menu
Other attributes	OK insert the field information in the
	message

5.2.4 Insert 2D code

	Interpretation Menu 114 01-07-2020 14:48:10 Equipment failure (202) Not Ready Start Printing	
Click "Insert 2D code" to select QRcode or DataMatrix code and other 2D codes in the code type and insert it in the text information. Edit the information in the inserted content to generate the corresponding QRcode code or DataMatrix	QRcode DataMatrix Content: DF417 PDF417 PDF417TRUNC Code Type MICROPDF417 X-axis 0 Inserts NO Size 250%	
and other 2D codes.	More	
	Properties	
	Figure 5-8	
Code type	Choose QRcode, DataMatrix, MicroQRcode,	
	PDF417, PDF417TRUNC, MICROPDF417	
	codes.	
	Insert text, time, serial number, shift, file, serial	
Insert	port data and other information content. If you	
	need a QR code such as WeChat or website, you	
	can also enter the content through the QR code.	
Note: Two-dimensional code, bar code can insert multiple text, time, serial number, shif		

and other information, but only one datab	ase can be loaded	
X, Y axis	The position of the text can be moved through	
	the touch screen or accurately positioned through	
	the X-axis and Y-axis positions.	
Size	Scale on the basis of the original image, not	
	custom height and width to scale	
	Refers to the ability of the two-dimensional code	
	to be blocked, and it can still be scanned. The	
	higher the fault tolerance rate, the more the	
	two-dimensional code can be blocked. The fault	
Tolerance	tolerance level is divided into: L, M, Q, H. (H is	
	the highest level of error tolerance, and the	
	greater the ability of the QR code to be scanned	
	out if you select H)	
	Direction : Set the direction of the	
	two-dimensional code (90 degree, 180 degree,	
	270 degree rotation).	
Other attributes	Frame: You can choose two modes of upper and	
	lower borders and surrounding borders	
	Inverse: Contrast color with the color inserted	
	into the QR code.	
	Frame size : the size of the red frame outside the	
	QR code.	
	Cancel Return to the previous menu.	
	OK Insert the QR code in the message.	
Function key options	Delete Delete the QR code information.	
	Copy Copy the QR code.	

5.2.5 Insert Barcode

You can select EAN13/13x/14code, CODE11/128/16K/49/93 code or UPCA/E code in the bar code type and insert it in the text information, edit the information in the inserted content to generate the corresponding EAN13/13x /14, CODE11/128/16K/49/93 or UPCA/E and other codes	Image: Second
Code type	EAN13/13x/14 codes, CODE11/39/128/16K/49/93
	codes
X, Y axis	UPCA/E,EXCODE39,Flattermarken,VIN, NVE18 and other codes
Inserts	The position of the text can be moved through the
	touch screen or accurately positioned through the
	X-axis and Y-axis positions.
Size	Scale on the basis of the original image, not

	custom height and width to scale		
Barcode height	Adjust the height of the bar code from 0 to 64		
	Direction: Set the direction of the bar code (90		
	degree, 180 degree, 270 degree rotation).		
	Frame: You can choose two modes of upper and		
	lower borders and surrounding borders		
More Properties	Frame size: the red frame size outside the		
	barcode.		
	Inverse: contrast with the color of the inserted		
	barcode.		
	Text: whether the text below the barcode is hidden		
	Cancel Return to the previous menu without		
	entering the barcode.		
Function key options	OK Enter the barcode in the message.		
	Delete Delete the barcode information.		
	Copy Copy bar code		

5.2.6 Insert Logo

Click the "Insert logo" button to select a logo in the logo memory and insert it in the text message. Note that the red frame will appear in the editing area beyond the printing range; The format of the inserted picture only supports .bmp format, and the size of the inserted picture should not exceed 4MB.	Image: Menu 115 01-07-2020 14:49:31 Equipment failure (202) Not Ready Start Printing V R Image: Select File Not ZLE TE Scaling Ratio(* 100 File Source V Select File NOZZLE TE Scaling Ratio(* 100 Inverse NO Height 150 Width 358 Direction O X-axis O Y-axis O Cancel OK Delete copy Copy Figure 5-10	
File Source	The triangle sliding menu has two options including local files and U disk files.	
Select File	Find the corresponding picture name in the local file or U disk file and insert the picture.	
Scaling ratio	Scale on the basis of the original image, not custom height and width to scale	
Inverse	Contrast with the color of the inserted logo.	
Height	Insert the height of the picture.	
Width	Insert the width of the picture.	
Direction	Set the orientation of the picture (90 degree, 180 degree, 270 degree rotation).	
X, Y axis	You can move the position of the picture through the touch screen or accurately position it through the X-axis and Y-axis positions.	
Сору	Copy selected logo	
Function key options	 Cancel Return to the previous menu without inserting a logo. OK Insert the logo in the message. Delete Delete the logo information. 	

5.2.7 Insert Shift

Click the "Insert Shift" button to create shift code information and increase or decrease the shift. Up to 6 shifts can be added. There should be no time overlap between adjacent shifts.	Image: Menu Information of the second s	
	Cancel OK Delete Add Shift Remove Shift More Properties More	
	Figure 5-11	
Shift code	The shift code can be entered according to user	
	needs. (Example: AAA)	
Starting time	Enter the hour and minute of the start time in the	
	format of a 24-hour clock system.	
End Time	Enter the hour and minute of the start time in the	
	format of a 24-hour clock system.	
Add Shift	More shifts can be derived from the created shift	
	codes。	
Note: In the inserted shifts, the time betwe	en adjacent shifts cannot overlap	
Remove Shift	Delete the derived shifts.	
More properties	Insert shift font, direction, spacing format	
	settings.	
	Cancel Return to previous menu without	
	inserting shift	
Function key options	OK Insert the shift in the message.	
	Delete Delete the shift information.	
	Copy Copy shift	

5.2.8 Serial number

Click the "Serial Number" button to create a serial number. The system inserts the serial number into the information. The serial number with the limit value 1 less than the limit value 2 will increase in sequence, otherwise it will decrease. The serial number control page can enter the serial number control interface by clicking the "SN Control" button at the bottom of the figure (or by clicking " Homepage" in the "Menu" and clicking the "SN Control" button on the homepage).	Image: Menu 113 01-07-2020 14:50:48 Please Acknowledge Alarm Not Ready Start Printing Image: Original content of the second
Serial Number	Number the created serial number. Both T1 and T2
	series models support the editing of 24 serial
	numbers.
Leading 0	Whether to add zero in front of the serial number,

	you can choose yes or no.		
	Limit 1 : The starting value of the serial number.		
	Limit 2: The end value of the serial number.		
	Setting step: the difference between adjacent		
	numbers.		
Serial number control	Repeat: The number of times the sequence		
	number being printed is repeated before		
	the next sequence number is printed.		
	Current Repeat: The number of times the current		
	serial number is printed repeatedly		
	Cancel Return to the previous menu without		
Serial number control	inserting a serial number.		
	OK Insert the serial number in the message.		
	Delete Delete the serial number information.		
	Cancel to the previous level without inserting		
	the serial number		
Function key options	OK Insert the serial number in the message.		
	Delete Delete the serial number information.		
	Copy copy SN number		

5.2.9 Database

Click the "Database" button to enter the interface shown in Figure 5-13. Click "Select File" to choose the .TXT (text file, tab separated) or .CSV (comma separated) file specified in the local or U disk file. The lines are printed sequentially or repeatedly. Note: Files that are not in .TXT (text file, tab separated) or .CSV (comma separated) format will not be recognized by the machine.	Menu 117 01-07-2020 14:51:11 Please Acknowledge Alarm Not Ready Start Printing Edit column items: Select File ! Edit column items: Select File ! Select File · Current Line 0 Total Line 0 Start Line 0 Repeats 0 Total Row 0 End Line 0 Loop Print Yes · Cancel OK Delete Figure 5-13
Select File	Find the corresponding file name in the local file or U disk file to insert the file.
Current Line	The number of lines currently printed. Note that the number of lines cannot exceed the total number of items.
Total Line	The total number of rows in the current print column.
Total Row	The total number of columns in the current variable.
Start line	The current print column starts printing from that line. Note that the number of lines cannot exceed the total number of lines.
End line	The current print column ends printing from that line. Note that the number of lines cannot exceed the total number of lines.

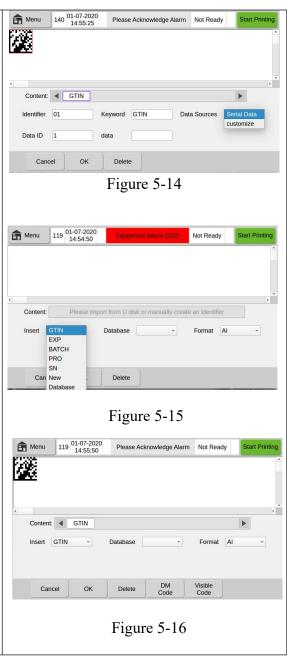
Repeat	Set the number of repeated prints current line
Note: The number of repeated prints refer current line	rs to the number of repeated prints on the
Loop printing	The number of times the variable being printed is printed repeatedly before starting to print the next variable.
Note: the cyclic printing yes or no is for the to	otal target print line
Function key options	Cancelto the previous menu without entering the insert database fileDeletedelete file information

5.2.10 Insert GS1 code

Click the "Insert GS1 code" button to enter the operation interface in Figure 5-14. Click the "Identifier" data option bar. You can choose to insert the four data of GTIN, BATCH, PRO, and SN. You can also add or select data in the database perform identifier insertion. As Figure 5-15 shown.

Example: Select to insert "GTIN", the "Content" column will display the inserted "GTIN" name, "Identifier", "Keyword" and other equivalent systems will be automatically generated, select "Data Source" to select the inserted data From serial port or customized (Note: When "Customize" is selected, the "Data ID" is turned off and the data is manually entered in the "data" edit area). As Figure 5-14 shown.

After editing and inserting the required identifier, click the "OK" button, the system enters the figure interface; click: "DM code", click the identifier name button that needs to display the DM code in the "GS1 code options" column, the display code will do If there is a change, adjust the size, position and size of the DM code, etc., click Confirm, and the DM code will be completed. If you need to display the DM visible code, click the "Visible Code" button, and then click the identifier option that needs to be visible. The identifier content will appear on the right side of the DM code. Adjust the size and position of the print content to print.



Insert	You can choose to insert identifiers such as GTIN, EXP, BATCH, PRO, SN, etc., or you can choose to insert "new" or "database".
Content	After selecting the inserted identifier, " Content" will display the name of the inserted identifier.
Identifier	The serial number of the specific identifier cannot be changed, and the system automatically generates it after selecting the identifier.
Keyword	You can change the keyword of the identifier, and the display of the identifier will also change accordingly.
Data Sources	Choose from Serial data or customize
Function key options	CancelCancel to the previous menuOKConfirm parameter settingDeleteDelete file information

Note: Whether the edited GS1 code can be scanned out depends on whether the GS1 code is officially authorized.

5.2.11 Weight price

The use of this function requires a weighing machine to be connected. Click the "weight price" button, the system will generate a blank field on the screen. After setting the data ID and connecting the weighing machine, select "Weight" or "Price" in the "Data Type", and the data sent from the weighing receiver will be automatically received and displayed in the blank field frame; if "Price" is selected, The system will display the price value according to the setting of the "unit price" number (price = weight*unit price). As shown in Figure 5-17

f Menu 1	18 01-07-2020 15:03:08	Please Ack	nowledge Alarm	Not Read	ly Start Printing
nul	٦				
nuc	L				
			String		•
Data ID	1	Data Type	Weight Price	Price	1
Length	4	Prefix		Suffix	
Direction	0 -	X-axis	0	Y-axis	0
Font Size	80	Font	Abyssinica : -	Space	0 -
Cancel	ОК	Delete	More Properties		сору
		Figur	e 5-17		

= weight*unit price). As shown in Figure 5-17	
Data ID	ID number of the data at the sending end of the weighing machine
Length	Print the displayed data length
Font size	Set the font size for display (printing)
Font	Select the font type for display (printing)
Spacing	Spacing between data values
Data Type	Optional character string, weight, unit price
Coefficient	Displayed when the data type is "weight"
Price	Appears when the data type is "Price"
Prefix	Insert a prefix for data
Suffix	Insert a suffix for data
More Properties	Click "Other Properties" to display the location and orientation of the data
Function key options	Cancel Cancel to the previous menu

OK	Confirm Data file
Delete	Delete file information
Сору	Copy current information

5.3 File Storage

After clicking the "MENU" button, enter
 Menu
 201
 01-07-2020 15:18:42
 Equipment failure (202) Not Ready Start Printing the "File Storage" interface, as shown in the figure. File Type Saved number File Format In the file storage, you can manage the Message 6 *.msa information, logos, fonts, and data of the Logo 1 *.bmp Fonts 4 *.ttf/*.ttc/*.otf printer. All files can be imported and exported Data File 0 *.txt/*.csv/*.xlsx from external U disks to external U disks. The Report File 0 *.csv information file format supports .msg, the logo file format supports .bmp, the font file Data File Report File Fonts Message Logo format supports .ttf/.ttc/.otf, the data file supports .txt/.xlsx/.csv format, and the printer Figure 5-18 contains 256MB of storage space.

5.3.1 Message

Click the "Message" button to enter the	Menu 2	210 01-07-2020 15:19:16	Equipment	failure (202)	Not Ready	Start Printing
interface shown in Figure 5-19. The interface			Local informa			
will display a list of local information files of	File Lis 4.msg		Change Time 330 01:45:52	0.97 KE	e Size	Select
	9.msg		606 11:37:07	0.85 KE		
the printer, including the file name, the	new.msg	20200	324 16:20:12	1.11 KE	3 🗆	
modification time of the file and the size of the	new1.msg		028 19:25:15	0.79 KE		
information file. The information files stored	new3.msg		330 01:44:32	0.70 KE		
in the printer can be edited and managed.	new5.msg	20200	701 14:49:22	0.72 KE	5 🖵	
in the printer can be carted and managed.	Cancel	Delete		Export	Select File	
		1	Figure		. 1	
		-				e printed,
Select File	click the	e "Select	File" b	utton,	and the	e selected
	informat	tion will	annear	on the	e nrintir	ng screen.
	Note: Or				-	•
		•				
	Return				u withou	
		enterir	ig the in	ıforma	tion sto	rage.
	Delete	After	selectin	g the	informa	tion to be
	201000			-		lelete the
			/			
		selecte	d inform	matior	n. You c	an delete
		multip	le files a	at a tir	ne.	
	Import	-			into the	`
Encoding from the section of	Import			-		
Function key options		-	-		ace of the	
		printer	, the inf	ormat	ion cont	ent in
		the US	B devic	e can	be impo	orted into
		the pri			P -	
		-		TIOD	· , ,1	
	Export		-	-	into the	
		corresp	oonding	; interf	ace of the	he
		printer	, you ca	in exp	ort the	
		-	•	-		rinter to
		morm	ation co	ment	m me p	

		the USB device.
Note:		ete", "Import" and "Export" must first
	Ϋ́,	olumn, the white box after the information
	line in the middle)	
	8	models or models with different versions
	cannot be imported and recognize	ed from each other

5.3.2 Logo

Click the "Logo" button to enter the	Menu 211 0	1-07-2020 15:19:46 Please Ackn	owledge Alarm No	t Ready Start Printing
interface shown in Figure 5-20. The interface		Local BM	P file list	
•	File List	Change Time	File Size	Select
will display a list of the local logo files of the	NOZZLE TEST.bmp	20190924 17:56:09	157.67 KB	
printer, including the file name, the				
modification time of the file and the size of the				
logo file.				
	Cancel	Delete Import	Export	
		Figure	e 5-20	
Note: a. The printer only supports bmp.	format logo	os, and T1 (T	2) series	models
support a maximum of 150dpi (300dpi) l	ogos			
b. For function key options, refer to 5.3.1	Informatio	on Storage I	nstruction	IS.

5.3.3 Fonts

Click the "Font" button to enter the interface	f Menu 2	12 01-07-202		failure (202)	Not Ready	Start Printing
shown in Figure 5-21. The interface will	·		Local font	file list		
e	File Lis	st	Change Time	File	Size	Select
display a list of local font files of the printer,	789.otf	20	190506 11:35:59	0.00 KB		
	asdf.ttf	20	190506 11:35:59	0.00 KB		
including the file name, the modification time	qwer.ttc	20	191107 13:23:25	0.00 KB		
of the file and the size of the logo file.						
e e						
Click the small white box below the						
"Selected" column to select the list font.						
	-					
	Cancel	Delete	Import	Install		
			Figure	5-21		
	Click the	e "Inst	all" buttor	n, the s	ystem in	nterface
	will disp	lav a l	ist of font	s avail	able for	
	-					
			ation; if t			
	selected,	a blac	k checkm	ıark wi	ll be dis	splayed
			ction colu			1 2
Y . 11	After	r checl	ting the fo	ont files	s you w	ant to
Install			•		•	
			e "OK" bi		•	
	prompt t	hat the	e newly in	stalled	fonts n	eed to
			•			
	restart in	ie prin	ter to take	effect;	; click l	ne OK
	button to	o restai	t the prin	ter, the	new fo	nt
	installati	on is c	omplete.	For det	tails, plo	ease
	refer to 5	5.2.1 "	Font".			
Note: a. It takes a certain amount of time to	o install f	onts.	When the	e numl	ber of i	installed

fonts is large, the waiting time for installation may be longer. Please do not operate the

machine during this process.

b. After the font is installed, you must restart the printer to take effect, or you can not select the installed font

c. For function key options, refer to the description in 5.3.1 Message

5.3.4 Data file

Click the "Data File" button to enter the interface shown in Figure 5-22. The interface will display a list of the printer's local database files, including the file name, file modification time, and logo file size.

The database file imported into the local printer can be called and used in the "Select File" button in 5.2.9 "Database".

Menu		07-2020 5:22:52	Please Acknow	wledge Alarm	Not Ready	Start Printing
			Local databas	e file list		
File	e List		Change Time	File S	lize	Select
001.txt		20200	701 15:21:17	0.42 KB		
002(utf-8).cs	v	20200	701 15:21:17	0.34 KB		
003.csv		20200	701 15:21:17	709.10 KE	3	
0031.csv		20200	701 15:21:17	6.09 MB		
0032.csv		20200	701 15:21:18	4.34 MB		
0033.csv		20200	701 15:21:19	9.00 MB		
004.csv		20200	701 15:21:19	0.06 KB		
Can	cel	Delete	Import	Export		
			Figure	5-22		

5.3.5 Report file

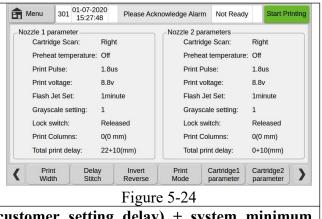
Click the "Report File" button to enter the interface shown in Figure 5-23. The interface will display a list of the printer's local database files, including the file name, file modification time, and logo file size.

The print report stored in the "Report File" is the print record generated when the printer is connected to an external device. The report will be generated only when the "Print Report" function in the "Communication Settings" is turned on. For details, check **5.5.7**

			Local report	file list		
File	List		Change Time	File S	ize	Select
002(utf-8).cs	1	202007	701 15:23:10	0.34 KB		
004.csv		202007	701 15:23:10	0.06 KB		
005.csv		202007	701 15:23:11	0.09 KB		
Com		Doloto	Import	Evnort		
Can	cel	Delete	Import	Export		

5.4 Print parameters

In the printing parameters of the main menu, you can adjust the printing parameters of all the information in the printer. The printing parameters are common settings and are valid for all information. The main interface of the printing parameters will display the information of the printing parameters after the current printer adjustment.



Note: Total printing delay = Print delay(customer setting delay) + system minimum printing delay (minimum printing delay can be set in the service menu)

5.4.1 Print width

 Click "Print Width" to enter the interface shown in Figure 5-25. The parameter settings of this interface will directly affect the printing effect. When the synchronization mode of the equipment production line is set to "external encoder"; if the encoder pulse sampling is "Infinite frequency ", the parameters in the green box in the figure cannot be modified. If the encoder pulse sampling is "Crossover mode", the parameters in the "encoder divider ratio" in the green frame can be modified. When the synchronization mode of the equipment production line is set to "internal fixed speed"; the "internal fixed speed" parameter can change the value, and the encoder parameter options will be locked and cannot be edited. Horizontal resolution set: 40-2400dpi can be set Vertical resolution set: as shown in Figure 5-26 Note: Changing the horizontal resolution will affect the printing speed, while changing the vertical resolution has no effect on the speed. 	Image: Note ReadyStart PrintingImage: Note ReadyImage: Note Ready <tr< th=""></tr<>
Light eye effective pulse width	The optical eye is interfered by external information, and sometimes an unstable pulse signal is transmitted to the machine. At this time, increasing the effective pulse width of the optical eye can play a role in filtering and shielding the interference signal pulse.
Trigger Level	Can be set to high or low level, combined with "current level" and "Line speed" can be a good detection of whether the light eye is in a normal working state (Note: the setting of the effective level value will affect the position of printing)
Refresh	Press the "Refresh" button to display the current production line speed

5.4.2 Delay stitch

Click the "Delay Stitch" button to enter the interface shown in Figure 5-27. Under this interface, single cartridge printing, double cartridge independent printing, and double cartridge stitched printing function can be realized; some print delay parameter settings are set for the above three printing modes to debug the printing effect.	Menu 312 01-07-2020 15:32:46 Please Acknowledge Alarm Not Ready Start Printing Single Cart. Double Cart. (Independent) Double Cart. (Stitched) Cartridge Settings Double Cart. (Stitched) Cartridge1Print Delay 0 - Cartridge2Print Delay 0 mm Cartridge1Product remaining length 0 mm Cartridge2Product remaining length 0 mm
	Cancel OK
	Figure 5-27
Single Cart.	Use only one print head for printing
Double Cart. (independent)	The printing content of each nozzle is
	independent of each other and does not
	interfere with each other
Double nozzle (Stitched)	Two print heads splicing and printing the
	printing information
Duint dalar	
Print delay	The distance from the sensor to the product to
	the beginning of printing, which is convenient
	for customers to adjust the position of the
	printing content on the product.
Cartridge1/2 Product remaining length	Avoid multiple signals on the same product
	interfering with printing, the cartridge does not
	receive the optical eye signal within a certain
	length
	dge, only cartridge 1 is effective, cartridge 2
does not work	

b. When double cartridges are spliced, the vertical splicing can realize the seamless splicing in the vertical direction by adjusting the number of ink dots of the "Cartridge 1-2 overlap"; the horizontal splicing can realize the seamless splicing in the horizontal direction by the "Cartridge 1/2 print delay"

c. If the cartridge 1-2 overlap is set to 0, the vertical direction still cannot be seamlessly spliced, you need to adjust the angle of the cartridge group

5.4.3 Invert Reverse

Click the "Invert Reverse" button to enter	Menu 315 01-07-2020 15:35:06 Please Acknowledge Alarm Not Ready Start Printing
the interface shown in Figure 5-28. You can	
flip or reverse each message. Unless dynamic	
control is used, this option will apply to all	Cartridge1Reverse Control On -
messages. If you use dynamic control, you can	Cartridge1Inverse Control Off -
set the number of times to reverse or reverse	Cartridge2Reverse Control Off -
printing.	Cartridge2Inverse Control Off -
	Cancel OK
	Figure 5-28
Contridge Deverse Control	It can be turned on or off, and it is common to
Cartridge Reverse Control	all information.

Cartridge Inverse Control	It can be turned on or off, and it is common to all information.
Function key options	Cancel Discard the changes and return to the previous menu.

5.4.4 Print Mode

Click the "Print Mode" button to enter the display interface in Figure 5-29. Under normal circumstances, the machine's default factory printing mode is "standard mode". In this mode, the printer will always print the print content displayed on the home page and sent. No special printing requirements, no need to change the printing mode.

After clicking the "Standard Mode" button in this interface, the print mode options available for switching will pop up.

Select "Continuous" printing mode, the printer will print the same information continuously after receiving a signal to trigger printing. By setting the interval value (mm) of continuous printing, the equidistant continuous printing of information is realized.

The default setting of "Update Numbers each Repeat" is "Yes" (Note: You can choose Yes or No. If you select Yes, the variable will be updated at the same time every time you print repeatedly, otherwise it will not be updated.) The default setting of "I ast Massage Print All"

The default setting of "Last Message Print All" is "Yes"

Select the "Counting" printing mode, the printer will complete the set number of times of printing according to the set "count the number of print" value. Same as "Continuous Mode", you can also set the printing interval of printing information (click the "Repeat Pitch" button to set)

The default setting of "Update Numbers each Repeat" is "Yes"

The default setting of "Use Product End" is "Yes"

(Note: Use Yes/No to select whether to stop repeating when the end of the product is detected.)

	314	01-07-2020 15:36:13	Cart. 2 lo	ock is abnormal	Not Rea	dy	Start Prin
Print M	ode	Standard					
		Continuous Counting				[
Contini		Grouping Counting Gro	ouping				
Update		cronouonare [100				*
Last M							
						Yes	
				Count the numb	er or prim	1	
Can	cel	ОК					
			Figur	e 5-29			
Menu	314	01-07-2020 16:11:30	Cart. 2 lo	ock is abnormal	Not Rea	dy	Start Print
Print M	ode	Continuous -					
		rinting Interv					
			Yes +				~
Last M	essage	Print All	Yes +				-
				Count the number	er of print	1	
Can	cel	ок					
Cano	cel	ок	Figur	e 5-30			
	314	OK	_	re 5-30 knowledge Alarm	Not Rea	dy	Start Print
	314	01-07-2020 17:04:04	_		Not Rea	dy	Start Print
Menu Print M	314 1ode	01-07-2020 17:04:04 Counting	Please Ac	knowledge Alarm			Start Print
Menu Print M	314 Iode	01-07-2020 17:04:04 Counting	Please Ac	knowledge Alarm	n)	10	
Menu Print N Contir Updat	314 tode tuous P e Numt	01-07-2020 17:04:04 Counting Printing Intern	Please Ac	knowledge Alarm Repeat Pitch(mr Update Number	n) s each Re	10 NO	Start Print
Menu Print N Contir Updat	314 tode tuous P e Numt	01-07-2020 17:04:04 Counting Frinting Inten	Please Ac	knowledge Alarm Repeat Pitch(mr Update Number Use Product En	n) s each Re d	10 NO NO	
Menu Print N Contir Updat	314 tode tuous P e Numt	01-07-2020 17:04:04 Counting Printing Intern	Please Ac	knowledge Alarm Repeat Pitch(mr Update Number Use Product En Last Message P	n) s each Re d rint All	10 NO NO Yes	
Menu Print N Contir Updat	314 tode tuous P e Numt	01-07-2020 17:04:04 Counting Printing Intern	Please Ac	knowledge Alarm Repeat Pitch(mr Update Number Use Product En	n) s each Re d rint All	10 NO NO Yes	
Menu Print N Contir Updat	314 Node e Numt Hessage	01-07-2020 17:04:04 Counting Printing Intern	Please Ac	knowledge Alarm Repeat Pitch(mr Update Number Use Product En Last Message P	n) s each Re d rint All	10 NO NO Yes	
Menu Print N Contin Updat Last N	314 Node e Numt Hessage	01-07-2020 17:04:04 Counting Winting Inten Ders each R(e Print All	Please Ac	knowledge Alarm Repeat Pitch(mr Update Number Use Product En Last Message P	n) s each Re d rint All	10 NO NO Yes	
Menu Print N Contin Updat Last N	314 Node e Numt Hessage	01-07-2020 17:04:04 Counting Winting Inten Ders each R(e Print All	Please Ac	knowledge Alarm Repeat Pitch(mr Update Number Use Product En Last Message P Count the numb	n) s each Re d rint All	10 NO NO Yes	

Select "Grouping" printing mode, the printer will print the information in the "Grouping File" list.

Click the "Increase Files" button, the system internal information file list pops up, by checking and unchecking, to realize the increase and decrease of the "group file" printing information list. When printing, you can also set the "Extra Delay" value to compensate for the delay of the corresponding information.

	rint Mode Grouping	*	MSG Switching	Cycle Switch External Con
1 9.msg 0 2 new.msg 0 3 new1.msg 0	No.	Grouping File	Extra Delay	Current File
2 new.msg 0 3 new1.msg 0	0 4.msg		0	0
3 new1.msg 0	1 9.msg		0	
	2 new.msg		0	
4 new3.msg 0	3 new1.ms		0	
	4 new3.ms		0	
	3 new1.ms		0	

Note: a. If the information switching mode is "Cycle Switching", the printer will switch the printing information among all the selected information.

b. If the information switching mode is selected as "external control", the level combination of the external information selection input pin will switch the corresponding printing information. (This method switches the information during photon detection. It takes a certain time to switch the information, so this method must increase the print delay setting appropriately)

Select the "Counting grouping" printing mode, the printer will print the group files added in sequence according to the set printing interval after each trigger of the optical eye.

This mode is a combination of "counting mode" and "grouping mode". The grouping file is switched during the count printing process. The counting grouping mode can set different printing intervals for different files (similar to the additional printing interval of the grouping mode)

No.	Grouping File	Print Interval (mm)	Current File
0	4.msg	0	0
1	9.msg	0]
2	new.msg	0	
3	new1.msg	0	
4	new3.msg	0	

Note: The "print interval" in the counting grouping mode does not know the length of the file to be counted and the group prints, so the machine cannot automatically correct this value, so when setting the print interval, the print interval should not be less than the "Message length"+the length to switch file" corresponds to the distance the production line travels during this time, and the customer needs to make his own judgment.

5.4.5 Cartridge parameter

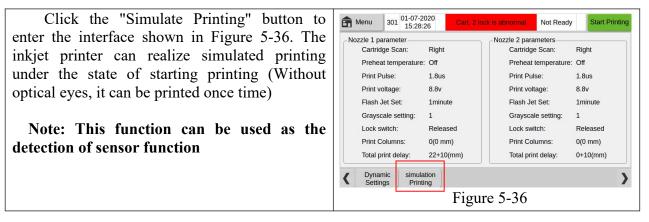
Click the"Cartridge	f Menu	310 01-07-2020	Please Ack	knowledge Alarm	Not Ready	Start Printing
Parameter" button in		Parameter setting	Right Column		1	
the "Print Parameters" to enter the interface	Cartiluger	raiameter setting	Left Column			
shown in Figure 5-34.	Colum	n Selection	Alternating	Product Dire	ection Rig	ht -
The settings interface	Nozzle	space (µm)	4106	Preheat Set	ting Off	•
provides general						
information about ink	Cartrid	ge Parameters	Solvent ink -	Flash Jet Se	t 1 n	ninute -
cartridge settings.	Print P		▲ 1.8us ▶	Flash Jet Co	olumns 1	-
	Nozzle		∢ 8.8v	Grayscale se	etting 1	-
	Canc	el OK	Determine To all		Cleaning Nozzles	
			<u> </u>	re 5-34		
			-		-	rint, or you can
		e "Alternatin	g" of alterr	nating inkjets	from the	e left and right
Column Selection	column. Note: "Al	ternate mod	de" means	that for eac	h messar	ge printed, the
Column Selection						cartridge are
	switched in sequence. The delay compensation is determined by the					
		w spacing p				
Nozzle space(um)				nd right colu on of the "al		the nozzle can g mode''
Cartridge				ng, manual s	etting, w	ater-based ink
Parameters		solvent ink				
Note: a. Automatic						
attached, or you can manually set the print pulse width and nozzle voltage according to the cartridge parameters.						coruing to the
b. "Water-based/solvent ink preset" is the default setting according to the standard						
HP ink cartridge param	neters, plea	ise set manu	ally for sp	ecial parame	eters	
Print Pulse			•		•	-
Nozzle Voltage	cartridge parameter information, and cannot be changed in other settings.					
Product Direction	Choice lef	t or right				
Note: a. The Product d				om the front	of the n	ozzle, the
direction that	-			1 (20	0 1 · TT·	
b. In alternating parameter mu			nign-speed	mode(eg.30	uapi Hig	n Speed), this
Preheat setting		/60°C/65°C/	70℃/75℃/	80°C.		
Note: This function is					this fu	nction in low
temperature working e						
Flash Jet Set				in/40min/50		,
		-		st and preven	t nozzle	clogging
Flash Jet Columns		r of columns				
Grayscale settings	1-6 level, 1	the higher th	e level choo	ose, the darke	er the prin	nted color.

Note: Increasing the pr	rinting grayscale will reduce the printing speed
Determine to all	Single cartridge setting confirms all cartridges
Cleaning nozzles	Long press is effective, can be used to clean the nozzle, check whether the nozzle is blocked, pay attention to block the nozzle
Function key options	Cancel Discard the changes and return to the previous menu.

5.4.6 Dynamic Settings

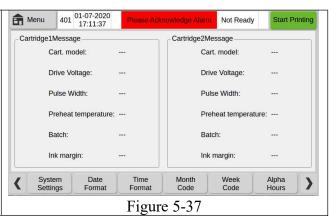
Click the "Dynamic Settings" button to	Image: Menu 316 01-07-2020 17:07:49 Please Acknowledge Alarm Not Ready Start Printing
enter the interface shown in Figure 5-35. You	
can set a certain information to be inversed or	Off
reversed to print control mode.	Message Control Product Control
Reverse/Inverse dynamic control: Off,	Reverse dynamic control External Control
information control, product control, external	Inverse dynamic control Off -
control.	
	Cancel OK
	Figure 5-35
Message control	Inverse/reverse each time the information is
	printed
Product control	Every time a product is detected, it is
	inversed/reversed
External control	The level of the external control input
	determines whether to reverse or inverse
Function key options	Cancel Discard the changes and return to
Hunction key ontions	Current Disearce the changes and retain to

5.4.7 Simulate Printing



5.5 Machine parameters

It is used to modify the parameter format of the printer, and can adjust the mechanical parameters of all the information in the printer. The mechanical parameters are universal settings and are valid for all information. The main interface of the mechanical parameters will display the current printer cartridge model, ink margin, information such as batch, drive voltage, and print pulse width etc.



Note: a. The ink cartridge information only shows the ink cartridge with the RFID chip attached. The information cannot be displayed for the ink cartridge without the RFID chip attached.

b. Since only one ink cartridge is installed in the T1 series printer, only the information of a single ink cartridge is displayed.

5.5.1 System settings

Click the "System Settings" button to	Menu 416 02-07-2020 16:47:16 Equipment failure (202) Not Ready Start Printing
enter the interface shown in Figure 5-38. This	
interface can change the system language	
(requires restart to take effect) and the input	System Language English - Beeper On -
method language; Set the time for screen	Input method language English - Print trigger sound Off -
saver.	Screen Saver 60Minute Print End Sound Alarm Off
The reverse switch of the screen brings	Screen upside down On Master Clock 2020-07-02 16:47::
convenience to the actual installation; the	
switch setting of various sounds and the	
system clock (machine time)	Cancel OK
	Figure 5-38
System language	One of 21 languages can be selected as the
System language	system language

Note: After selecting a language as the system operation language, click the "OK" button, the system will prompt whether to restart the device, and the new language will take effect after restarting.

Input method language	One of 21 input methods can be selected as the keyboard input method
Screen Saver	Set the screen saver switch, can be set for 1-60 minutes
Screen upside down	180 degree upside down screen, easy to install and use from multiple angles

Note: To turn on the "Screen upside down" function, after clicking the "OK" button, the system will prompt whether to restart the device, and the screen reversal will take effect after restart.

Beeper	Keyboard sound switch
Print trigger solind	After the sensor detects the product, it triggers
	the printing tone switch
Print End Sound Alarm	Prompt tone switch at the end of printing

Master Clock	Machine master time			
Function key options	Cancel Cancel to previous level menu			

5.5.2 Date format

Click the "Date Format" button to enter the interface shown in Figure 5-39. This interface can add, supplement or delete the date format in the memory. Up to 15 date formats can be added and retained; the new date format can be used in "Insert Clock" under "Message".(check 5.2.2 for details)	Menu 410 02-07-2020 16:47:39 Equipment failure (202) Not Ready Start Printing 1.yyyyMMdd 6.yyyy/MM/dd 11.dd/MM/yyyy 2.yyMMdd 7.yy-MM-dd 12.yyyydd 3.ddMMyyyy 8.yyyy-MM-dd 13.WNMMyyyy 4.ddMMyy 9.yyMM.dd 14.Julian YearMMMMMMMMM 5.yy/MM/dd 10.yyyy.MM.dd 15.MMMMddyy Create New Form Vear yyyy yy Julian Year Vear yyyy Julian Year Separator Symbol Week WN ddd WCODE Juays dd Julian Date					
	Cancel OK Delete					
	Figure 5-39					
Create New Form	Choose to create a new date format in the year variable/month variable/week variable/day variable/separator, and click the "<<" symbol button to delete the variable. After editing the new date format, click the "Add" button and then click "OK" below to create a new date format.					
Function key options	CancelReturn to the previous menu.OKto add new format and return to theprevious levelDeleteDeleteDelete the selected date format.					
then click the "OK" button, otherwis format can be inserted into the "Inser b. Currently, the maximum number of is only 15. If you need to add other da stored date format and add it.	th time, be sure to click the "Add" button and e it will not take effect; the newly added date t Clock" under "Message" be called; date formats that can be added by the system ate formats, you need to delete the previously rt the month code; click "WCODE" to insert					

the week code; click "WN" to insert the week number.

5.5.3 Time format

Click the "Time Format" button to enter the	f Menu	411 02-07-	2020 Please A	cknowledge Alarm	Not Ready	Star	t Printing	
interface shown in Figure 5-40, which can	1.hh:mm:ss 6.HCODE 11.hhmm			hhmm				
add, supplement or delete the time format in	2.hh:mm 7.hh 3.hhmmss 8.mm				12.HCODEhh 13.mmsshh			
the memory. Up to 15 date formats can be	3.hhmmss 8.mm 4.mmss 9.ss			14.HCODE				
added and retained; the new date format can	5.ss 10.mmss							
	Crea	te New Form				<<	Add	
be used in "Insert Clock" under "Information	Hours	hh	HCODE	Separator Symbol	1	-		
Editing". (check 5.2.2 for details)	Minute mm							
	Seco	nd ss			*	~		
					,	:		
	Can	celO	K Delete					
Figure 5-40								
Create New format	In the hour variable/minute variable/second							
	variable/separator, select to create a new clock							

	format, click the two less-than signs to delete			
	the variable, edit the new time format and click			
	Add to create a new time format.			
Function key options	Cancel Return to the previous menu.			
Note: a. Each time a new time format is created, be sure to click the "Add" button and				
then click the "OK" button to take effect; the newly added date format can only be				
inserted under "Information Edit" Called in the "clock" function				
b. Currently, the maximum number of date formats that can be added by the system				
is only 15. If other date formats need	to be added, delete the previously stored date			
format and add it				

format and add it.

5.5.4 Base format

Click the "Base Format" button to enter the interface shown in Figure 5-41, which allows you to add or delete hexadecimal formats in the memory. The new base format can be used in "Insert Clock", "Insert Serial Number" and "Insert Random Number" under "Information Editing". (See 5.2.2 for details)	MENU 422 28-05-2024 10:34:56 Machine Status Normal Not Ready Start Printing 1.HEX 2.10 3.grdf Intervention Base name: Carry system: Value: New base Base name: Please enter the Add Value: Please enter a custom value Intervention Add Cancel OK Delete Image: Solution Image: Solution Solution Solution Image: Solution		
Base name	Customize the name of the new hexadecimal system.		
Carry system	Display the base type.		
Numerical value	Customize the input value, each character is an element symbol. The total number of elements is the carry system. Such as the value "0123456789". The characters '0', '1' are the 0th element, the 1st element, respectively. There are ten elements in total from 0 to 9, so the carry system is 10. This is every tenth day.		
Function key options	Return Return to the previous menu. OK Add new base format and return to the previous menu. Delete Delete the hexadecimal format in the memory.		
Note: a. Every time you create a new hexadecimal format, you must click the "Add" button and then click the "OK" button to take effect; the newly added hexadecimal format can only be added under "Information Editing" Called in the "Insert Clock", "Insert Serial Number" and "Insert Random Number" functions			

5.5.5 Month, week, hour code

Click the "Month Code" button to enter	Menu 412 02-07-2020 16:49:53 Please Acknowledge Alarm Not Ready Start Printing
Figure 5-42. The month name can be modified	16:45:53
to be used when inserting the clock function	
when editing information.	1Month JAN 5Month MAY 9Month SEP
January, FebruaryDecember: Enter up	2Month FEB 6Month JUN 10Month OCT
to 3 numeric or alphabetic characters.	3Month MAR 7Month JUL 11Month NOV
	4Month APR 8Month AUG 12Month DEC
	Cancel OK Save as Use
	Figure 5-42
Click on the "Week code" button to enter	Alony 410 02-07-2020 Environment follows (200) Net Beach. Start Brinting
Figure 5-43, you can modify the name of the	High werd 413 16:58:44 Equipment handre (202) Not Ready Start Philling
week for the use of the clock function when	Monday MON Friday FRI
editing information.	Tuesday TUE Saturday SAT
Monday, TuesdayFriday: Enter up to	Wednesday WED Sunday SUN
3 numeric or alphabetic characters.	Thursday THU
	Cancel OK Save as Use
	Default Default Value
Click the "Alpha hour" button to ontor	Figure 5-43
Click the "Alpha hour" button to enter Figure 5-44. You can associate an	Image: Menu 414 OG (7 2020) Please Acknowledge Alarm Not Ready Start Printing
alphanumeric character with each 24-hour	0Hours A 6Hours G 12Hours M 18Hours S
period. You can use the insert clock to insert	1Hours B 7Hours H 13Hours N 19Hours T
these characters in the message.	2Hours C 8Hours I 14Hours O 20Hours U
0 o'clock, 1 o'clock 23 o'clock: Enter	3Hours D 9Hours J 15Hours P 21Hours V
up to 3 numeric or alphabetic characters.	4Hours E 10Hours K 16Hours Q 22Hours W
	5Hours F 11Hours L 17Hours R 23Hours X
	Save as Use
	Cancel OK Default Default Value
	Figure 5-44
Save as default	Keep the new name for new information.
8	saved by the user according to personal needs.
	ribute, you do not need to reset it after each
time system start up Use default value	Use the default name in the massage
	Use the default name in the message.
Function key options	Cancel Discard changes

5.5.5 Common texts

Click the "Common Texts" button to enter the interface shown in Figure 5-45. After clicking the text input box next to "Create New Format", the input keyboard pops up, enter frequently used text information, and click the "Add" button. The newly created common text will appear in the default three common below the text. This common text can be called up in the "**Insert Text**" function in the **Message** menu (check 5.2.1 for details)

Menu		6-07-2020 02:25:14	Please Acknowledge Alarm	Not Ready	Start Printing
Create New F	orm			Add	
1.Time					
2.Date					
3.Number					
Can	cel	ок	Delete		

Note: a. Common text can be added up to 18 items b. After adding the required common text items, be sure to click the "OK" button at the bottom, otherwise it will not be saved and take effect

5.5.6 Product count

Click the "Product Count" button, you can view the current number of detections and prints and the total number of detections and total prints of the printer in the product count; at the same time, the reset time is displayed in the subtotal and total columns, so that customers can easily Print statistics.	Image: Menu 415 06-07-2020 02:25:34 Piease Acknowledge Aurm Not Ready Start Printing Subtotal Product count 0 Print count 0 Print count 0 Print count 0 Reset time 2020-03-24 16:17:48 Print count 0 Print count 0 Print count 0 Product count 0 Print count 0 Print count 0 Print count 0 Print count 0 Count pulse output Count Setting 1 Output method Off Count Setting 1 Cancel OK Subtotal Total Reset Figure 5-46 Figure 5-46
Product count	Product testing and counting
Print count	Print detection count
Reset time	The reset time of the subtotal reset and total reset are independent of each other, but after the total reset, the subtotal reset time changes simultaneously
Counting Method	Off: turn off the counting pulse output function Print count: When the number of printed products reaches the set value, it can output a signal to an external device Product count: When the detected product number reaches the set value, it can output a signal to an external device
output method	Pulse output: After the product or print count reaches the set value, it is output as a pulse signal to an external device Level output: After the product or print count reaches the set value, it is output to an external device as a level signal

Note: The counting pulse output function T1 series equipment is not supported temporarily

5.5.7 Communication settings

_	
Click the "Communication Settings" button to enter the interface shown in Figure 5-47.	Image: Menu 417 06-07-2020 02:28:37 Please Acknowledge Alarm Not Ready Start Printing Buffer Settings C-Comm ALWELL weighter ALWELL weighter
The left part is the cache setting during communication, and the right part is the communication protocol setting. Connect the printer to an external machine (PC, PLC, weighing machine, etc.) by checking the protocol. The external information can be selected whether to display the cache in the printer interface. There are two main ways to connect external devices: serial RS232 connection and network port IP connection.	Number 1 • Display Yes • Filled Up Receive • Clear Iterational and the second secon
RS232 Settings	Baud Rate 19200 Check Position None Data Bits 8 Stop Bits 1 Figure 5-48 Match the Baud rate and other data of the external machine to the printer and complete the connection
Ethernet settings	IP
Buffer settings	 Number : 1-10 buffered data can be selected Display: Choose whether to display the cache content (10 cache bits will be displayed after opening, but the actual number of cached display is determined by the "cache number" setting) Filled Up: You can choose whether to continue to accept data cache after the cache is full Clear: Click to clear the cached content

	Protocol: In the factory state, the machine is
	pre-installed with some external equipment
	agreements. If customers need to connect other
	external equipment, they can send the
	equipment agreement to our company to add
	Trigger signal: Turn on or off external signal
	6
Printer settings	trigger
	Final message: choose to keep or not keep the
	last message
	Print report: open or close the print report
	record function
	Recording interval: choose how many hours
	to record the report

Note: a. When externally connected to the device, if you do not want to trigger once, the print and printer display will refresh immediately, you must turn on the "trigger signal" switch

b. Please turn off the print report function when it is not necessary to prevent the printer's Flash memory from being filled up

5.5.8 Screen Adjust

After selecting the screen adjust, the system will automatically enter the 5-point calibration process of the touch screen. Click the five calibration cross positions on the upper left, upper right, lower right, lower left, and middle of the screen in sequence to complete the screen calibration. Click **OK** to save the calibration status, click **cancel** or wait 10 seconds if you do not click **OK**, the pre-calibration state will be restored by default.



Figure 5-50

Note: When the touch screen is stuck or cannot be operated, you can use the mouse to perform screen calibration through the USB port of the fuselage; but after using the mouse calibration to enter the 5-point calibration interface, you still need to use your finger or stylus to perform five-point manual calibration.

5.6 Service menu

It is used to check the operating status of the	f Menu	501 06-07-2020 02:30:13	Please Acknowledge Alarm	Not Ready	Start Printing
printer, system upgrade, user management,					
event log, etc.					
After clicking the service menu, the screen		Enter service passwo	ord	ОК	
interface as shown in the figure will appear.					· · · ·
Enter the service password and enter the					
service menu area.					
Service menu area will display the current					
printer device model, hardware, software,	_				_
firmware version and machine serial number.					
			图 5-51		
Note: The password for the service menu is service. After entering, click the "OK" button					

to enter the lower menu.

5.6.1 System settings

Click the "System Settings" button to enter	Image: Menu 510 06-07-2020 02:31:47 Equipment failure (202) Not Ready Start Printing
the interface shown in Figure 5-52. This system setting function is different from the "System Settings" under the "Machine Parameters" category. The former is mainly for setting the system language, sound, time and screen, and the latter is for the system to set the nozzle function and system upgrade	Detect Cartridge1Cartridge lock detection Cartridge2Cartridge lock detection Detect Cartridge1Cartr.inst.detection Detect Cartridge2Cartr.inst.detection Detect Cartridge1Minimum print delay (mm) 10 Cartridge2Minimum print delay (mm) 10
entrance.	Cancel OK System Upgrade
	Figure 5-52
cartridge lock detection	You can choose to detect or not to detect.
cartridge install detection	You can choose to detect or not to detect.
Minimum print delay	The default value is 10, no need to change in normal use
Note: a Each printing format has a minimu	m printing delay. When there is a variable in

Note: a. Each printing format has a minimum printing delay. When there is a variable in the printing content, the printer needs to refresh the variable. If the entered value is smaller than the minimum printing delay, an error will occur during printing.

b. Set the remaining length of the product to ensure that within a certain length, the same product will not occur due to optical errors, two (multiple) misprints that occurred during induction.

5.6.2 Print Settings

Click the "Print		ET MENU 513 28-05-202 10:59:10		Please Acknowledge Alarm		Not Ready Start Pr	
Settings" button to enter		10.55.10					
the inkjet printer print							
setting interface shown in	Synchroni	zation Mode	External enc	Maximum print	Maximum print frequency		•
Figure 5-53. (Note: The	Encoder p	ulse sampling	Infinite freque - Data refresh mod		ode	de Real-time ref -	
printing parameter	Encoder A		phase - Display Effect			Live Update 👻	
settings on this page are				Display Ellect			
different from the "Print	Reverse F	rinting	Allow -	Low temperatu	re mode	Off	•
Parameters" settings in	Encoder o	lirection	Clockwise - Auto start printing		ng	Off	-
the main menu. The							
former is the setting of the							
printing effect, while the		.)	Remaining	Wheel	Cost	Ignore	•
latter is the setting of the	Cano	el OK	Alarm	Diameter	Calculation		
printing method)		Figure 5-53					
Synchronization Mode	Choice	Choice of "Internal fixed speed" and "external encoder"					
Note: a. When the printer does not use an external encoder, please select the "internal							
fixed speed" mode fe	or printing,	which req	uires a sta	able produ	iction l	ine spe	ed.
b. When the encoder	r synchroni	zation rat	te is exter	nally con	nected	to the	e printer
please select "Exter	nal encodei	" mode f	or printin	g. In this	mode,	the pr	roduction
line rate is allowed to	o fluctuate.						
Encoder pulse sampling	Choi	ce of "Infin	nite freque	ncy" and "o	crossov	er mod	e"
Note: a. This function	can be set o	only when	the produ	ction line	synchi	ronizat	ion mod
		-	-				

is set to "External Encoder"

b. The "Infinite frequency" mode can directly realize the printing of different DPI, but some printing columns may be lost.

c. "Crossover Mode" can only print a certain proportion of resolution, but will not lose any print column

	I I	
	Encoder AB phase	You can choose "A phase" or "AB phase"
Production line		Select "Prohibit", "Allow" or "Compensate"
	reverse printing	
	Encoder direction	You can choose "clockwise" or "counterclockwise"
	Maximum printing frequency	The maximum printing frequency (ie, printing ignition frequency) can be set to $12k/15k$. The higher the value, the higher the printing speed of the production line.

Note: a. In the frequency division mode, the "AB phase" mode can be enabled, and you can set whether to print or compensate for printing when the production line runs in reverse. The clockwise and counterclockwise encoder modes refer to the direction of the encoder when the current production line is running in the forward direction.

b. When the maximum printing frequency (maximum ignition frequency) is selected as 12k (15k), the ink cartridge nozzle can eject 12k (15k) ink dots per second; this function can cope with higher-speed production lines.

_ L	1 8 1	
	Data refresh mode	You can choose "real-time refresh" or "early refresh"
	Display effect	You can choose "real-time refresh" or "non-real-time refresh"
		In a low temperature environment, this mode can be turned on
	Low temperature	to put the entire print head in continuous heating mode. (Note: To
	mode	use this mode, you must shut down the machine to remove the print
		head)
Ī	Automatically start	When the printer detects the ink cartridge lock and the ink
	printing	cartridge is installed, it will automatically start the printing mode.

Note: a. In "Data Refresh Mode", if data synchronization is required, please select real-time refresh; refreshing in advance can improve the response speed of each product.

b. For display effects, select real-time update to display the effect synchronously, while non-real-time update can improve the response speed of each product.

c. For data refresh and display effects, choosing real-time will provide better usage results.

Remaining alarm:

Yellow alert and red alert remaining can be set to 5%, 10%, 15%, 20%, 25%, 30%, 35%, 40%, 45%, 50%, 55%, 60%. (red alert value must be less than or equal to yellow alert value)

When a red alert occurs, you can choose to set whether the machine stops printing.

513 28-05-2024 11:00:30	Equipment failure (202)	Not Ready	Start Printing
Ink rem	aining alarm setting		
Yellow alert	20% -		
Red alert	5% -		
Whether to	stop NO -		
Cancel OK			
	Figure 5-54		

Wheel diameter:	ET MENU 513 28-05-2024 11:01:16	Please Acknowledge Alarm Not Ready Start Printing	
This is a function to			
calculate the diameter of the	Whee	el diameter calculator	
wheel. You can fill in the	Encoder resolution	n (P/r) 2500	
encoder resolution, frequency	Encoder divider n	atio 1 🔹	
division ratio and horizontal			
resolution, and click the	Horizontal resolut		
"Calculate" button to calculate	Recommended w	heel diameter:	
the optimal wheel diameter for		Calculation	
the inkjet printer.			
	Cancel		
		Figure 5-55	
Cost calculation:	20.05.2024		
According to the ink	Image: Menu 513 28-05-2024 11:02:15	Equipment failure (202) Not Ready Start Printing	
cartridge unit price, capacity,		Cost calculator	
ink dot size, resolution and	Ink cartridge unit price 980	Vertical resolution:300dpiStandard	
other parameters, it can	Cartridge capacity 42	Message Columns:0	
calculate how many pieces of	Ink dot size 32		
the current printing content can		Total information points:0	
be printed, and the cost per	Number of nozzles 2	Total number of printables:	
piece. Note: The counting data	Printing grayscale 1	Single printing cost:	
will be affected by internal or		Calculation	
external factors, and the	The calculated data is affected by	many factors, this calculation is for refere	
calculation result is the result	Cancel		
of the optimal use state of the		Figure 5.56	
ink cartridge.		Figure 5-56	
Ignore Alarm:	ET MENU 513 28-05-2024 11:02:58	Equipment failure (202) Not Ready Start Printing	
You can choose to turn	11.02.00		
off "encoder speed too fast",	Select to ignore alarm	prompt	
"printing delay or interval is			
too short", "service time is			
about to expire", "RTC battery			
low" and "RTC battery Not	□ Service time is about to expire		
Present or Disconnected".	RTC Battery Low		
	RTC Battery Not Present or Disconnected		
	Cancel OK		
		Figure 5-57	

5.6.3 User Management

It is used to add or delete users who log	Image: Menu 511 06-07-2020 02:32:35 Equipment failure (202) Not Ready Start Printing			
	No. Username Password			
in to the printer. Each user has a	0 admin *****			
corresponding user name and password. After				
adding a user, this page will display the				
number and name of users added by the				
machine, and the password will not be	Yes Current user: admin Does the screen unlock require user login? NO			
displayed. The serial number "0" is the highest	Cancel Add Delete Delete User All			
authority password of the system, which can	Figure 5-58			
be used when the user name and password are				
forgotten.				
	Cancel Cancel to the superior directory			
	Add user Enter user name and user password			
	and click OK to add users			
Function key options	Delete user Enter the user name and			
	userpassword and delete to delete			
	the user			
	Delete all Delete other users except the serial number is 0			
Note: a The user can click the "Ves/No"	-			
Note: a. The user can click the "Yes/No" button in the lower right corner of the				
screen to select whether the user is required to log in after the screen is unlocked b. When you forget the user login name or password, you can use the administrator				
account password to enter the system.				
System advanced login username: admin password: admin				
c. "Delete all" function need to enter the administrator account password				

5.6.4 Event Log

Click the "Service " button and enter the	ne 💼 Menu		512 06-07-2020 02:32:54	Equipment failure (202)	Not Ready	Start Printing
"Event Log", the page will display 100		No.		Event	Date/Tim	e
records of recent machine operation status		1	RTC Battery Not Present or Disconnected Equipment failure (202) Equipment failure (202) Machine not activated		2020-07-06 01	:56:48
1		2			2020-07-06 01:56:48 2020-07-06 01:56:48 2020-07-06 01:56:46	
according to the time sequence. Drag the		3				
white slider on the right side of the screen to		4				
C		5	Serial port cannot be opened		2020-07-06 01:56:43	
turn pages.		6	Equipn	nent failure (201)	2020-07-06 01	.56:43
		7	Equipm	nent failure (201)	2020-07-06 01	:56:43
		8	RTC Battery Not	Present or Disconnected	2020-07-02 15	.56:36
		9	Equipn	nent failure (202)	2020-07-02 15	:56:36
		10	Equipm	nent failure (202)	2020-07-02 15	.56:36 *
		Cance	el OK			
				Figure 5-59		

Chapter 6 Maintenance and Maintenance

The inkjet printer is a kind of precision equipment. If the daily maintenance is not timely and in place, it is prone to various failures, which brings a lot of inconvenience to production. Management and maintenance.

If the working environment of the printer is not too good, dust can easily enter the printer port or ink cartridge, which affects the printing effect of the printer and shortens the service life of the printer. It will also be too cold or too hot. Directly affect the printing effect of the printer.

6.1 Inkjet printer maintenance

1. (Handheld) The battery power has a display prompt, you can fully charge the battery, but please do not overcharge the battery, do not use the printer for a long time, you can remove the battery from the printer and store it, it is recommended to use it again Charge the battery to activate it. Do not use the battery if it is too cold or too hot. Note that other batteries cannot be used to replace the printer battery.

2. (Online) Check whether the power cord, power adapter wiring and grounding wire are worn and the contact points are reliable;

3. (Online) Check whether the grounding screw of the equipment is loose; whether the grounding is reliable;

4. Before starting, please confirm whether the device has shifted, whether the nozzle and the item to be printed are parallel, and the distance between the nozzle and the printing is controlled within 0.5-2.5mm (please use the supplied tool to lock the bracket);

5. Clean the ink cartridge, wipe the surface of the nozzle with a non-woven cloth to keep it clean and unobstructed; (please refer to cartridge maintenance instructions 6.2)

6. Keep the touch screen clean, and it is strictly forbidden to poke hard objects;

7. Keep the surface of the equipment clean and all interfaces of the equipment clean.

8. Make sure to check whether the printer is equipped with ink cartridges and batteries (handheld), if the batteries are exhausted, please replace and check.

9. When the machine is turned on, make sure that the status of the printer is normal, and is there any alarm prompt? (If there is an alarm, please refer to 7.1)

10. After the printer is turned off, be sure to pull out the ink cartridge; wipe the surface of the nozzle with a non-woven cloth, and cover the nozzle with a cartridge protective sleeve, and place it in a safe environment. (Please refer to cartridge maintenance instructions 6.2)

6.2 Cartridge maintenance

Adopting the correct usage and storage methods can keep the ink cartridges with the best printing effect, thereby prolonging the service life of the ink cartridges. Please strictly follow our ink cartridge maintenance instructions.

1.For unopened ink cartridges, please place them in our original unopened vacuum packaging until they are opened. Once the ink cartridge is unsealed and exposed to air, the ink will inevitably evaporate slowly from the ink cartridge. Therefore, unopened ink cartridges can be stored in the original unopened vacuum packaging for a longer period of time.

2. Once the ink cartridge is unsealed, it is recommended to use it as soon as possible after unsealing to prevent the nozzle from clogging because of the limited time for the nozzle to remain dry.

Note: Due to the different ink characteristics of different models, the drying time and maintenance methods will be different. For details, please consult our after-sales service personnel.

3. If the ink cartridge cannot be used up once after unsealing, it must be taken out of the printer when not in use, and the ink cartridge holder provided by our company should be used to catch the ink cartridge and place it in a sealed container. (Storage temperature is room temperature)

Note: Do not seal the ink cartridge with tape, and do not put the ink cartridge in a soft plastic bag.

- 4. The surface of the nozzle is particularly delicate. Do not touch or wipe the nozzle with hard, rough objects to avoid scratching the nozzle.
- 5. When wiping the nozzle, please use a non-woven cloth purchased from our company. (Note: For the direction of wiping the nozzle, the wiping cloth should be placed flat on the table to keep the wiping cloth flat with the nozzle facing down and wiped vertically along the two rows of nozzles. Do not wipe the nozzle horizontally to avoid nozzle damage. Show.)

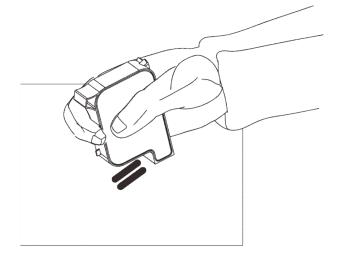


Figure 6-1

6. Do not shake the ink cartridge vigorously, because the ink pressure may damage the print head, and at the same time, it will cause bubbles inside the ink cartridge to affect the printing quality.

In order to make you get the best printing quality, according to different types and specifications of ink, detailed precautions, maintenance, please contact our after-sales service staff for more instructions on ink usage.

Chapter 7 Common Problems and Solutions

7.1 Warning bar information status and solution

There are three background colors for the warning display bar: Green: The machine status is completely normal Yellow: The machine has an alarm, but it does not affect printing Red: The machine has a fault alarm and cannot print normally

7.1.1 Display green

When the background color of the warning display bar is green, it means the machine is in a normal state

7.1.2 Display yellow

When the background color of the warning display bar is yellow, it indicates that the machine has an alarm, but it does not affect printing. It is used to remind the operator that the printer needs maintenance or information processing errors.

The following is a list of common alarms when the background color of the warning display bar is yellow:

Low ink cartridge level: The ink ink level in the ink cartridge is too low. Solution: A new ink tank should be installed.

Encoder speed is too fast: The encoder speed exceeds the maximum sequence speed. (Note: This only occurs when using a rotary rotary encoder.) Solution: reduce the speed of the encoder.

The service time of the machine is coming soon: The maintenance service hour of the machine is almost up.

Note: This warning is a setting that can be turned off, so it may not be displayed (the second time will be given when the machine maintenance service has arrived warning shutdown).

Solution: It can be closed in the service menu. If the fault cannot be eliminated, the maintenance personnel should be repaired.

Low battery power: The battery power of the machine is too low. Note: This warning is only displayed on the handheld printer. Solution: Reinstall the new battery or charge.

7.1.3 Display red

When the Background color of the warning display bar is red, it indicates that the machine has malfunctioned, and at the same time, printing has been stopped or unsafe conditions have been prevented. At this time, the operator makes corresponding treatment after confirmation. If the printer successfully returns to normal working status, the warning bar message will disappear accordingly.

The following lists several common alarms when the background color of the warning display bar is red:

Ink cartridge information cannot be recognized: the machine cannot read the information

corresponding to the ink cartridge

Solution: Check whether the position of the ink cartridge is installed in place, reinstall or replace the ink cartridge

The ink cartridge is empty: the ink in the ink cartridge has run out. Solution: A new ink cartridge should be installed.

No ink cartridge installed: no ink cartridge was detected before starting printing. Solution: Install the ink cartridge, and install and check the ink cartridge before starting printing.

The ink cartridge is not locked: the clamping block of the ink cartridge is not locked. Solution: After inserting the ink cartridge into the pinhole card slot, gently press the hand to fix the position of the ink cartridge buckle up.

Machine service time is up: The machine maintenance service hour has arrived, and the machine stops printing.

Note: This warning is a setting that can be turned off, so it may not be displayed. Solution: It can be closed in the service menu. If the fault cannot be eliminated, the maintenance personnel should be repaired.

Ink cartridge has expired: cartridge life has expired Solution: Install a new ink cartridge before starting printing again

SN	Problem	Analysis	Solution	Remarks	
1	The printing effect is broken or white	Nozzle hole clogged or damaged	 A. Refer to chapter 6.2 Ink cartridge maintenance instructions, wipe the nozzle clean with a non-woven cloth; B. Press the one-button cleaning function of the operation steps in 5.4.5 to solve the problem. 	If not resolved: 1.Please check whether the contacts of the nozzle drive board are recessed and cannot bounce;	
		Ink cartridge and printer poor contact	Solve the problem.2. Whether the cartridge conditionReinstall the ink cartridge or disassemble the ink cartridge, and2. Whether the cartridge condition		
2	The printing effect appears to be complete in the front and only part of the content is printed in the Cancel.	Insufficient ink supply, Air in the	A. Please confirm whether the cartridge information indicates that it is almost used up; B, use the suction clip to draw out the gas in the cartridge C. Please send Cancel to our company for testing		
3	Ink in ink cartridge Fully printed Not coming out。	The ink cartridge has run out;the nozzle is severely blocked; Cartridge voltage and pulse width The parameter is wrong	A. Return to the "Information Editing" interface to check the remaining amount of ink to confirm whether the		

7.2 Common problems and solutions of ink cartridges

4	Lartridge not	contact bad touch or damaged	Reinstall the ink cartridge or replace with a new ink cartridge	If it is not resolved, please check: 1. Whether there is a depression in the contact of the drive board, which can not be bounced or damaged; 2. Whether the ink cartridge contacts are dirty
	Ink cartridge information	The RFID chip is damaged; RFID paste	cartridge:	If not resolved: Please return to our company for testing

7.3 Common problems and solutions of inkjet printers

SN	Problem	Analysis	Solution	Remarks
1	Can not boot	1.The printer has no electricity Source input	A. Make sure that the power adapter AC power input is correct, and the DC plug of the adapter is inserted into place with the printer; B. Confirm whether the power indicator of the adapter is always on. If it is not bright, slightly bright or flashing, please replace the adapter.	
		2The printer switch is not turned on	Confirm that the printer switch is in the "ON" state.	
			Please contact our after-sales service department.	
		1.The"StartPrinting" button is not pressed		
	Unable to print	2.No print data	Select or edit the information and click the "Send Print" button	
		3.The printing delay is too large; Resulting in no printing on the product	delay is normal	
2		4.No cartridge	Install ink cartridges	

cartridges, but ink cartridges Used up or damaged; cartridge information is not identified; cartridge parameters do not match	cartridge is used up or RFID chip problem; modify the system ink cartridge parameters	If the ink cartridge has run out, or the RFID problem, replace a new ink cartridge or RFID chip to solve.
0. NO Optical Signal	Sensing the electrical eye signal by hand and	If an external electric eye is connected, click "Main Menu"-"Printing Parameters"-"Printing Word Width" to check the effective level of the optical eye, and sense the electric eye by hand to test whether the electric eye is damaged
· · ·	Check the encoder connection line and confirm whether the encoder is damaged or the production line is running: change the	Click "Main Menu"-"Printing Parameters"-"Printing Word Width" to view the production line speed value, and continuously click the "Refresh" button to observe whether the production line speed display has changed to determine whether the test encoder is damaged

Note:

 The above are only common faults and solutions, if there are other faults, please contact our after-sales service department;
 According to the customer's on-site installation environment and operation requirements, the cause of the failure and the solution will be different. This method only provides a reference solution.